

**2006 Reconnaissance (1:20,000)  
Fish and Fish Habitat Inventory  
Follow-up Sampling of  
Selected Inlet Streams to Babine Lake  
Watershed Code:  
480-000000**

Prepared for:  
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March 27, 2007

## PROJECT REFERENCE INFORMATION

|                                     |                                                                                                                                       |
|-------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------|
| <b>Original FDIS Project Number</b> | 06-BABL-00001196-1999                                                                                                                 |
| <b>Original Report Title</b>        | Reconnaissance (1:20,000) Fish and Fish Habitat<br>Inventory of selected inlet streams to Babine Lake.<br>Watershed Code: 480-000000. |
| <b>Contract Number</b>              | FIA-FFHI-06                                                                                                                           |
| <b>FIA Project Number</b>           | 2532003                                                                                                                               |
| <b>FDIS Project Number</b>          | 06-BABL-00015953-2006                                                                                                                 |
| <b>FIA Region</b>                   | Skeena-Bulkley Region                                                                                                                 |
| <b>MOE Region</b>                   | 06 - Skeena                                                                                                                           |
| <b>FW Management Unit</b>           | 6-8                                                                                                                                   |
| <b>Fisheries Planning Unit</b>      | North Coast                                                                                                                           |
| <b>FO Sub-District</b>              | 4D                                                                                                                                    |
| <b>Forest Region</b>                | Prince Rupert                                                                                                                         |
| <b>Forest District</b>              | Nadina                                                                                                                                |
| <b>Forest Licensee and Tenure #</b> | Houston Forest Products,<br>A Division of West Fraser Mills Ltd.<br>Forest License A-16827                                            |
| <b>First Nations Claim Area</b>     | Lake Babine Nation                                                                                                                    |

## WATERSHED INFORMATION

|                                    |                                                                                                                                                                                                 |
|------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Watershed Group</b>             | BABL (Babine Lake)                                                                                                                                                                              |
| <b>Watershed Name</b>              | Face Units to Babine Lake                                                                                                                                                                       |
| <b>Watershed Code</b>              | 480-000000                                                                                                                                                                                      |
| <b>UTM at Mouth</b>                | Varied                                                                                                                                                                                          |
| <b>Watershed Area</b>              | 233.54 km <sup>2</sup>                                                                                                                                                                          |
| <b>Total of all Stream Lengths</b> | 398.2 km                                                                                                                                                                                        |
| <b>Stream Order</b>                | 1-4                                                                                                                                                                                             |
| <b>NTS Maps</b>                    | 93M/1, 93M/2, 93M/7                                                                                                                                                                             |
| <b>TRIM Maps</b>                   | 093M.008, 093M.009, 093M.018, 093M.019, 093M.028                                                                                                                                                |
| <b>BEC Zone</b>                    | SBSmc, ESSFk                                                                                                                                                                                    |
| <b>Air Photos</b>                  | 30BCC96144 No. 29-40, 70-80<br>30BCC96144 No. 90-97, 140-149, 160-170<br>30BCC96145 No. 22-31, 41-55, 85-102,<br>30BCC96145 No. 114-133, 52-172, 185-207<br>30BCC96147 No. 8-30, 78-95, 116-130 |

## **FOLLOW-UP SAMPLING DESIGN SUMMARY**

|                                                 |                                                        |
|-------------------------------------------------|--------------------------------------------------------|
| <b>Total Number of Original Reaches</b>         | 369                                                    |
| <b>Total Number of Reaches</b>                  | 429                                                    |
| <b>Total Sampling Sites Original Inventory</b>  | 78 (including 2 lake surveys)                          |
| <b>Total Sampling Sites Follow-up Inventory</b> | 17                                                     |
| <b>Total Historical Sampling Sites</b>          | 181 (excluding original inventory)                     |
| <b>Field Sampling Dates Original Inventory</b>  | July 19 – October 26, 1999                             |
| <b>Field Sampling Dates Follow-up Inventory</b> | July 1 – August 1, 2006                                |
| <b>Fish Species Captured During Follow-up</b>   | CAS, CO, DV, RB                                        |
| <b>Documented Fish Species in Study Area</b>    | CAS, CC, CH, CO, CT, LKC,<br>LNC, MW, NSC, PCC, RB, SK |

## **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. The Province reserves the right to dispute the validity of summarized results.

This report incorporates the previous data collected, compiled and mapped by a third party. FINS Consulting Ltd. (FINS) assumed that these data were correct and accurate and the results drawn appropriately reflect provided information. FINS will not and do not accept any errors and omissions found in the third party data.

**Acknowledgments**

Funding for this project was made available by the Forest Investment Account, a provincial government mechanism for promoting sustainable forest management in British Columbia. FINS would also like to thank Jaret van der Giessen of Houston Forest Products and Dean Peard of MoE Office in Smithers for their assistance through all phases of the project, Lynn Miers of MoE Office in Victoria for her promptness in addressing several issues, and Sam Buchanan for her time spent in editing of this report.

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| <b>Attachment I</b>   | <b>Project Planning Document</b>                                                                                                                           |
| <b>Attachment II</b>  | <b>Field Notes</b> <ul style="list-style-type: none"><li>• Site Cards/Combined Fish Collection Forms</li></ul>                                             |
| <b>Attachment III</b> | <b>Photo documentation</b> <ul style="list-style-type: none"><li>• Photodocumentation Form 1</li><li>• Photo Summary Report</li><li>• Photo CD's</li></ul> |
| <b>Attachment IV</b>  | <b>Digital Data</b> <ul style="list-style-type: none"><li>• Watershed Report Files</li><li>• FDIS Files</li><li>• Mapping Files</li></ul>                  |

# 1. Introduction

FINS Consulting Ltd. (FINS) was retained by Huston Forest Products (HFP) in 2006 to conduct 1:20,000 scale Resource Inventory Committee (RIC) Standard Fish and Fish Habitat Inventory (FFHI) follow-up sampling on selected inlet streams to Babine Lake in order to provide Forest Practices Code (FPC) Riparian Management Area (RMA) classification for forest development planning.

## 1.1 Project Scope and Objectives

Follow-up sampling was conducted to supplement and augment the information collected during a past RIC Standard reconnaissance inventory completed in the area in 1999 and several follow-up operational inventories. Re-sampling is intended to provide Houston Forest Products (HFP) with conclusive, site-specific fisheries information to aid in forest development planning and activities. All results presented in this report incorporate previous field sampling that was conducted on the streams.

The main purpose of re-sampling of selected inlet streams within the Morrison Operating Area Face Units to Babine Lake was to:

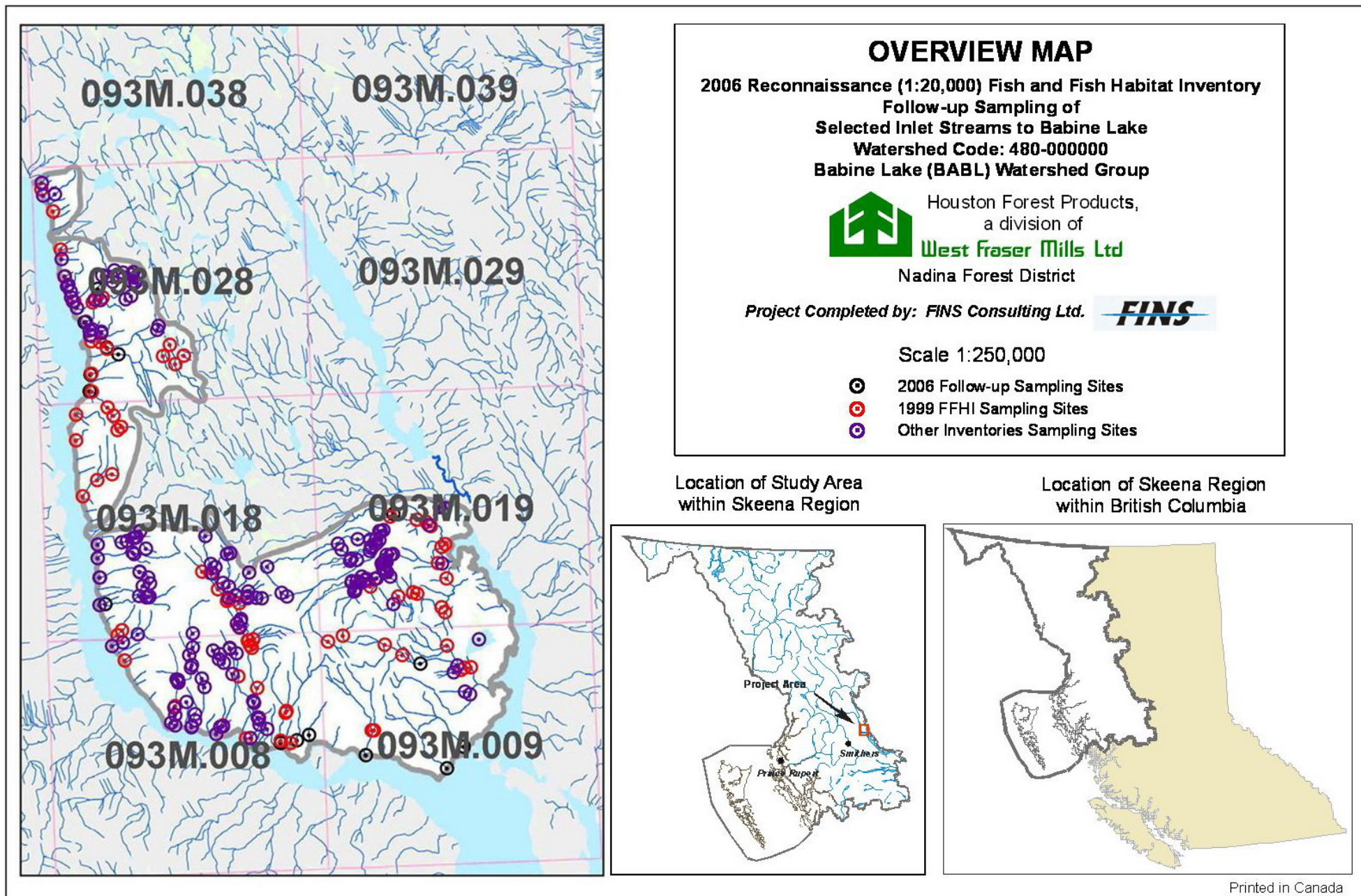
- improve fish distribution information within the project area,
- compile and document fish barriers limiting fish distribution,
- re-sample reaches where the previous results were inconclusive,
- provide additional information about fish species diversity and abundance,
- assess fish habitat values in all previously and currently re-sampled reaches,
- map field confirmed new reaches,
- map fish-bearing streams using all available fisheries information, and,
- collect fish samples for genetic analysis.

## 1.2 Location

The area covered by this project includes a portion of the Babine Lake watershed within the Babine Lake (BABL) high-level watershed group (Figure 1). Specifically, it includes northern shore tributaries between the north-western and Morrison arms of Babine Lake. Watersheds 480-445700 and 480-502100 are not included within this area. For details refer to the original report *SKR. 2000. Reconnaissance (1:20,000) Fish and Fish Habitat Inventory of selected inlet streams to Babine Lake. Watershed Code: 480-000000 (SKR11)*.

## 1.3 Access

The reaches within the study area were accessed by boat and 4x4 vehicle; road access is described in detail in the original FFHI report (SKR11). The boat was launched from two public areas located in the communities of Smithers Landing and Granisle.



**Figure 1: Project Area Overview Map.**

## 2. Resource Information

The project area is on Crown Land within a Provincial Forest and the primary resource use is forest management for timber extraction in HFP's operating area and public recreation on Babine Lake. Lake Babine First Nation currently is in stage 4 of treaty process. For additional resource information refer to the original FFHI report (SKR11).

### 2.1 Existing Fisheries Information

FISS (Fisheries Information Summary System) [1] records indicate the presence of chinook salmon (*Oncorhynchus tshawytscha*), coho salmon (*O. kisutch*), sockeye salmon (*O. nerka*), rainbow trout (*O. mykiss*), prickly sculpin (*Cottus asper*) and longnose dace (*Rhynchichthys cataractae*) in some of the third and fourth order tributaries to Babine Lake within the project area.

In addition to FISS data, fisheries information for the project area has been collected and presented within past reconnaissance and operational inventories conducted between 1996 and 2002 (SKR1 – SKR22). This information was compiled and included in the sampling design and mapping where applicable, and was used to provide rationale for fish-bearing status and stream classification. Table 1 below summarizes historical information for fish presence and sampling results within the project area. This information is also provided on the project/interpretive maps and in the mapping file format as part of Attachment III.

**Table1: Historic Information on fish presence in the Project Area.**

| Watershed Code         | Recent ILP | Old Stream ID/ old ILP | Reach | Stream Order | Historic Site | Fish Species/ Sampling Results | Source |
|------------------------|------------|------------------------|-------|--------------|---------------|--------------------------------|--------|
| 480-541300             | 10055      |                        | 4     | 3            | NA            | RB                             | FISS   |
| 480-559500             | 10844      |                        | 1     | 4            | NA            | SP                             | FISS   |
| 480-559500             | 10844      |                        | 1     | 4            | NA            | CAS CO                         | FISS   |
| 480-579300             | 10024      |                        | 1     | 3            | NA            | SK                             | FISS   |
| 480-595000             | 10115      |                        | 1     | 3            | NA            | CO RB                          | FISS   |
| 480-595000             | 10115      |                        | 1     | 3            | NA            | CAS LNC                        | FISS   |
| 480-598300             | 10090      |                        | 2     | 2            | NA            | CO LNC RB                      | FISS   |
| 480-598500             | 10125      |                        | 3     | 3            | NA            | CH CO                          | FISS   |
| 480-598500             | 10125      | Creek 6                | A     | 3            | 3             | RB                             | SKR1   |
| 480-598500-42500       | 10136      | Creek 6a               | 1     | 2            | 1             | NFC                            | SKR1   |
| 480-598500-42500       | 10136      | Creek 6a               | A     | 2            | 5             | NS                             | SKR1   |
| 480-598500-48300-16009 | 10138      | Creek 6b               | 1     | 1            | 4             | NFC                            | SKR1   |
| 480-598500-48300       | 10139      | Creek 6b1              | 2     | 1            | 2             | NS                             | SKR1   |
| 480-509400             | 10224      | Creek 3                | 1     | 1            | 4             | NS                             | SKR1   |
| 480-509400             | 10224      | Creek 3                | 2     | 1            | 5             | NS                             | SKR1   |
| 480-509400             | 10224      | Creek 3                | 3     | 1            | 6             | NS                             | SKR1   |
| 480-512388             | 10226      | Creek 4                | A     | 1            | 2             | NS                             | SKR1   |
| 480-513700             | 10227      |                        | 1     | 2            | 3             | NFC                            | SKR1   |
| 480-513700             | 10227      |                        | 2     | 2            | 1             | NFC                            | SKR1   |
| 480-466800             | 10284      |                        | 4     | 3            | 1             | RB                             | SKR2   |



**Table1: Historic Information on fish presence in the Project Area.**

| Watershed Code         | Recent ILP | Old Stream ID/ old ILP | Reach | Stream Order | Historic Site | Fish Species/ Sampling Results | Source     |
|------------------------|------------|------------------------|-------|--------------|---------------|--------------------------------|------------|
| 480-466800-45883       | 10287      | 521                    | 4     | 1            | 1             | NFC                            | SKR2       |
| 480-460300             | 10347      | Stream G               | 3     | 2            | 2             | NS                             | SKR2       |
| 480-460300-58426       | 10847      | 520                    | 1     | 1            | 1             | NFC                            | SKR2       |
| 480-503400             | 10221      | Stream A               | 1     | 2            | 1             | NFC                            | SKR2, 4    |
| 480-503400             | 10221      | Stream A               | 1     | 2            | 2             | NS                             | SKR2, 4    |
| 480-503400             | 10221      | Stream A               | 2     | 2            | 3             | NFC                            | SKR2, 4    |
| 480-503400             | 10221      | Stream A               | 3     | 1            | 4             | NS                             | SKR2, 4    |
| 480-503400             | 10221      | Stream A               | 3     | 1            | 5             | NS                             | SKR2, 4    |
| 480-503400-97759-21218 | 10838      | Stream X/517           | 1     | 1            | 1             | NS                             | SKR2, 4, 5 |
| 480-503400-97759-44321 | 10839      | Stream Y/518           | 1     | 1            | 1             | NS                             | SKR2, 4, 5 |
| 480-460300             | 10347      | Stream G               | 1     | 3            | 1             | CO RB                          | SKR2, 5    |
| 480-545800             | 10041      |                        | 1     | 2            | 1             | NFC                            | SKR3       |
| 480-545800             | 10041      |                        | 2     | 1            | 2             | NS                             | SKR3       |
| 480-545800             | 10041      |                        | 2     | 1            | 3             | NS                             | SKR3       |
| 480-545800-21846       | 10042      | 509                    | 2     | 1            | 1             | NS                             | SKR3       |
| 480-545800-21846       | 10042      | 509                    | 3     | 1            | 2             | NS                             | SKR3       |
| 480-549400             | 10044      |                        | 1     | 2            | 1             | CAS CO                         | SKR3       |
| 480-549400             | 10044      |                        | 2     | 2            | 2             | NS                             | SKR3       |
| 480-549400             | 10044      |                        | 3     | 1            | 3             | NS                             | SKR3       |
| 480-549400-12319       | 10045      | 511                    | 1     | 1            | 1             | NS                             | SKR3       |
| 480-541300             | 10055      |                        | 1     | 3            | 1             | CC CO RB                       | SKR3       |
| 480-541300             | 10055      |                        | 2     | 3            | 2             | NS                             | SKR3       |
| 480-541300             | 10055      |                        | 3     | 3            | 3             | NS                             | SKR3       |
| 480-541300             | 10055      |                        | 4     | 3            | 4             | RB                             | SKR3       |
| 480-541300             | 10055      |                        | 4     | 3            | 5             | NS                             | SKR3       |
| 480-559500-22600       | 10079      |                        | 1     | 1            | 1             | NS                             | SKR3       |
| 480-559500-22600       | 10079      |                        | 1     | 1            | 2             | NS                             | SKR3       |
| 480-505600             | 10222      | Stream B               | 1     | 2            | 1             | NFC                            | SKR3       |
| 480-505600             | 10222      | Stream B               | 2     | 2            | 2             | NS                             | SKR3       |
| 480-505600-54000       | 10223      | Stream C/512           | 1     | 1            | 3             | NS                             | SKR3       |
| 480-541300-28566       | 10837      | 508                    | 1     | 1            | 1             | NS                             | SKR3       |
| 480-559500             | 10844      |                        | 1     | 4            | 1             | CO CAS                         | SKR3       |
| 480-559500             | 10844      |                        | 1     | 4            | 2             | NS                             | SKR3       |
| 480-559500             | 10844      |                        | 1     | 4            | 3             | NFC                            | SKR3       |
| 480-559500             | 10844      | 519                    | 1     | 4            | 6             | NS                             | SKR3       |
| 480-559500             | 10844      |                        | 2     | 4            | 4             | CO RB                          | SKR3       |
| 480-559500             | 10844      |                        | 3     | 3            | 5             | NS                             | SKR3       |
|                        | 1507       | Stream B               | 1     | 1            | 1             | NS                             | SKR5       |
|                        | 1508       | Stream A               | 1     | 1            | 1             | NS                             | SKR5       |
| 480-549400             | 10044      |                        | 3     | 1            | 3             | NFC                            | SKR5       |
| 480-503400             | 10221      | Stream A               | 1     | 2            | 3             | NFC                            | SKR5       |
| 480-503400             | 10221      | Stream A               | 1     | 2            | 2             | NFC                            | SKR5       |
| 480-509400             | 10224      |                        | 1     | 1            | 4             | CO RB                          | SKR5       |

**Table1: Historic Information on fish presence in the Project Area.**

| Watershed Code              | Recent ILP | Old Stream ID/ old ILP | Reach | Stream Order | Historic Site | Fish Species/ Sampling Results | Source |
|-----------------------------|------------|------------------------|-------|--------------|---------------|--------------------------------|--------|
| 480-509400                  | 10224      |                        | 2     | 1            | 1             | NFC                            | SKR5   |
| 480-509400                  | 10224      |                        | 3     | 1            | 2             | NS                             | SKR5   |
| 480-509400                  | 10224      |                        | 4     | 1            | 3             | NS                             | SKR5   |
| 480-513700                  | 10227      |                        | 1     | 2            | 3             | CO RB                          | SKR5   |
| 480-513700                  | 10227      |                        | 2     | 2            | 1             | NFC                            | SKR5   |
| 480-460300                  | 10347      |                        | 2     | 3            | 1             | NFC                            | SKR5   |
| 480-460300                  | 10347      |                        | 3     | 2            | 3             | NS                             | SKR5   |
| 480-460300                  | 10347      |                        | 4     | 2            | 2             | NS                             | SKR5   |
| 480-460300                  | 10347      |                        | 4     | 2            | 1             | NS                             | SKR5   |
| 480-460300                  | 10347      |                        | 4     | 2            | 5             | NFC                            | SKR5   |
|                             | 10889      | 1512                   | 1     | 2            | 1             | NS                             | SKR5   |
|                             | 10889      | 1512                   | 1     | 2            | 2             | NFC                            | SKR5   |
|                             | 10889      | 1512                   | 1     | 2            | 3             | NS                             | SKR5   |
|                             | 10890      | 1513                   | 1     | 1            | 1             | NS                             | SKR5   |
|                             | 10890      | 1513                   | 1     | 1            | 2             | NS                             | SKR5   |
|                             | 10891      | Stream B/1502          | 1     | 1            | 1             | NS                             | SKR5   |
|                             | 10892      | Stream C/1501          | 1     | 1            | 1             | NS                             | SKR5   |
|                             | 10893      | 1511                   | 1     | 1            | 4             | NFC                            | SKR5   |
|                             | 1516       | Stream 5b/1516         | 1     | 1            | 1             | NS                             | SKR6   |
|                             | 1517       | 1517                   | 1     | 1            | 1             | NS                             | SKR6   |
|                             | 1519       | 1519                   | 1     | 1            | 1             | NS                             | SKR6   |
|                             | 1521       | 1521                   | 1     | 1            | 1             | NS                             | SKR6   |
|                             | 1523       | 1523                   | 1     | 1            | 1             | NS                             | SKR6   |
|                             | 1525       | 1525                   | 1     | 1            | 1             | NS                             | SKR6   |
|                             | 2000       | 10105                  | 5     | 1            | 3             | NS                             | SKR6   |
| 480-559500-71100            | 10064      |                        | 2     | 1            | 1             | NS                             | SKR6   |
| 480-559500-58718            | 10066      |                        | 1     | 3            | 1             | NS                             | SKR6   |
| 480-559500-58718            | 10066      | 66                     | 1     | 3            | 1             | NS                             | SKR6   |
| 480-559500-63900            | 10067      |                        | 2     | 1            | 1             | NS                             | SKR6   |
| 480-559500-63900-40060      | 10068      | 68                     | 1     | 1            | 1             | NS                             | SKR6   |
| 480-559500-63900-13000-5409 | 10069      |                        | 1     | 2            | 1             | NS                             | SKR6   |
| 480-559500-63900-13000      | 10070      |                        | 1     | 1            | 1             | NS                             | SKR6   |
| 480-559500-63900-13000      | 10070      |                        | 2     | 1            | 2             | NS                             | SKR6   |
| 480-598300                  | 10090      |                        | 2     | 2            | 2             | NS                             | SKR6   |
| 480-598200-43400            | 10105      |                        | 3     | 3            | 1             | NFC                            | SKR6   |
| 480-598200-43400            | 10105      |                        | 4     | 3            | 2             | NS                             | SKR6   |
| 480-598200-43400-29700      | 10106      |                        | 1     | 1            | 2             | NS                             | SKR6   |
| 480-598200-43400-29700      | 10106      |                        | 2     | 1            | 1             | NS                             | SKR6   |
| 480-598200-43400-32600      | 10110      |                        | 2     | 2            | 2             | NS                             | SKR6   |
| 480-598500                  | 10125      |                        | 4     | 2            | 1             | NS                             | SKR6   |
| 480-598500                  | 10125      |                        | 4     | 2            | 2             | NS                             | SKR6   |
| 480-598500-42500            | 10136      |                        | 1     | 2            | 1             | NFC                            | SKR6   |
| 480-598500-42500            | 10136      |                        | 1     | 2            | 2             | NS                             | SKR6   |

**Table1: Historic Information on fish presence in the Project Area.**

| Watershed Code              | Recent ILP | Old Stream ID/ old ILP | Reach | Stream Order | Historic Site | Fish Species/ Sampling Results | Source      |
|-----------------------------|------------|------------------------|-------|--------------|---------------|--------------------------------|-------------|
| 480-598500-48300-16009-3441 | 10137      | 137                    | 1     | 1            | 1             | NS                             | SKR6        |
| 480-598500-48300-16009      | 10138      |                        | 1     | 1            | 1             | NS                             | SKR6        |
| 480-598500-48300-16009      | 10138      |                        | 1     | 1            | 2             | NS                             | SKR6        |
| 480-559500                  | 10844      |                        | 4     | 3            | 1             | NS                             | SKR6        |
| 480-559500                  | 10844      |                        | 5     | 3            | 2             | NS                             | SKR6        |
| 480-598300                  | 15009      | 10090                  | 3     | 1            | 3             | NS                             | SKR6        |
| 480-598300                  | 15009      | 10090                  | 3     | 1            | 2             | NS                             | SKR6        |
|                             | 1520       | 1520                   | 1     | 1            | 1             | NS                             | SKR6, 18    |
| 480-598200-43400-32600      | 10110      |                        | 1     | 2            | 1             | NS                             | SKR6, 18    |
| 480-598200-43400            | 10105      | Stream 7b/1524         | 1     | 3            | 1             | NS                             | SKR6, 7     |
|                             | 1526       | Stream 5d/1526         | 1     | 1            | 1             | NS                             | SKR6, 7, 12 |
| 480-598300                  | 10090      | Stream 5               | 4     | 2            | 9             | NS                             | SKR7        |
| 480-598500-48300-16009      | 10138      | Stream 2               | 1     | 1            | 8             | NFC                            | SKR7        |
| 480-598500-48300-16009      | 10138      | Stream 2               | 1     | 1            | 7             | NFC                            | SKR7        |
|                             | 15007      | Stream 7a              | 1     | 2            | 6             | NA                             | SKR7        |
|                             | 15008      | Stream 5a              | 1     | 1            | 10            | NS                             | SKR7        |
|                             | 15009      | Stream 5c              | 1     | 1            | 5             | NS                             | SKR7        |
|                             | 15010      | Stream 11              | 1     | 1            | 2             | NFC                            | SKR7        |
|                             | 15010      | Stream 11              | 2     | 1            | 1             | NS                             | SKR7        |
|                             | 1516       | Stream 5b/1516         | 1     | 1            | 4             | NS                             | SKR7, 12    |
| 480-598300                  | 10090      | Stream 5               | 3     | 2            | 3             | NFC                            | SKR7, 18    |
| 480-598200-43400            | 10105      | Stream 7               | 3     | 3            | 14            | NFC                            | SKR7, 18    |
|                             | 10178      |                        | 1     | 2            | 48            | NS (CO RB)                     | SKR8        |
|                             | 10178      |                        | 2     | 1            | 49            | NS                             | SKR8        |
| 480-598200                  | 10094      | 00504BABL              | 6     | 2            | 82-83         | LKC                            | SKR9        |
| 480-595000-18200            | 10002      | 00520BABL              | 3     | 1            | 78-80         | CAS MW NSC<br>PCC RB           | SKR10       |
| 480-595000-18200            | 10002      |                        | 1     | 1            | 17            | CAS (MW RB)                    | SKR11       |
| 480-595000-24601            | 10006      |                        | 1     | 1            | 18            | NS                             | SKR11       |
| 480-595000-66302            | 10010      |                        | 1     | 1            | 19            | NFC                            | SKR11       |
| 480-595000-30800            | 10013      |                        | 3     | 2            | 20            | NS                             | SKR11       |
| 480-579300                  | 10024      |                        | 2     | 2            | 21            | NFC                            | SKR11       |
| 480-579300-23200            | 10026      |                        | 1     | 3            | 22            | NFC                            | SKR11       |
| 480-564139                  | 10033      |                        | 1     | 1            | 23            | NS                             | SKR11       |
| 480-561100                  | 10034      |                        | 1     | 3            | 24            | NS                             | SKR11       |
| 480-561100                  | 10034      |                        | 2     | 3            | 25            | NFC                            | SKR11       |
| 480-561100-50872            | 10038      |                        | 1     | 2            | 26            | NS                             | SKR11       |
| 480-549400                  | 10044      |                        | 2     | 2            | 46            | NFC                            | SKR11       |
| 480-525082                  | 10053      |                        | 1     | 1            | 47            | NS                             | SKR11       |
| 480-541300                  | 10055      |                        | 3     | 3            | 48            | RB                             | SKR11       |
| 480-559500-78341            | 10061      |                        | 1     | 1            | 1             | NS                             | SKR11       |
| 480-559500-76000            | 10063      |                        | 2     | 2            | 2             | NFC                            | SKR11       |
| 480-559500-58718            | 10066      |                        | 1     | 3            | 3             | NFC                            | SKR11       |

**Table1: Historic Information on fish presence in the Project Area.**

| Watershed Code         | Recent ILP | Old Stream ID/ old ILP | Reach | Stream Order | Historic Site | Fish Species/ Sampling Results | Source |
|------------------------|------------|------------------------|-------|--------------|---------------|--------------------------------|--------|
| 480-559500-63900       | 10067      |                        | 1     | 2            | 4             | NS                             | SKR11  |
| 480-559500-51000       | 10072      |                        | 1     | 2            | 5             | NS                             | SKR11  |
| 480-559500-51000       | 10072      |                        | 2     | 2            | 6             | NS                             | SKR11  |
| 480-559500-51000-05014 | 10073      |                        | 1     | 1            | 7             | NS                             | SKR11  |
| 480-559500-47100       | 10076      |                        | 1     | 1            | 8             | NS                             | SKR11  |
| 480-559500-28568       | 10078      |                        | 1     | 1            | 9             | NS                             | SKR11  |
| 480-559500-22600       | 10079      |                        | 2     | 1            | 10            | NFC                            | SKR11  |
| 480-559500-20742       | 10080      |                        | 1     | 1            | 11            | NS                             | SKR11  |
| 480-598300             | 10090      |                        | 2     | 2            | 27            | NFC                            | SKR11  |
| 480-598200             | 10094      |                        | 3.1   | 3            | 28            | LKC RB                         | SKR11  |
| 480-598200             | 10094      |                        | 3.2   | 3            | 29            | NFC                            | SKR11  |
| 480-598200-28358       | 10096      |                        | 1     | 1            | 30            | NFC                            | SKR11  |
| 480-598200-41200-35634 | 10099      |                        | 1     | 2            | 31            | NS                             | SKR11  |
| 480-598200-33694       | 10101      |                        | 2     | 2            | 32            | NS                             | SKR11  |
| 480-598200-43400       | 10105      |                        | 4     | 3            | 33            | NFC                            | SKR11  |
| 480-598200-43400       | 10105      |                        | 6     | 2            | 34            | NFC                            | SKR11  |
| 480-598200-43400-26294 | 10113      |                        | 2     | 1            | 35            | NS                             | SKR11  |
| 480-595000             | 10115      |                        | 3     | 3            | 36            | RB                             | SKR11  |
| 480-595000             | 10115      |                        | 5     | 2            | 37            | NFC                            | SKR11  |
| 480-595000             | 10115      |                        | 8     | 1            | 38            | NFC                            | SKR11  |
| 480-598200-46800       | 10118      |                        | 1     | 1            | 39            | NS                             | SKR11  |
| 480-598500             | 10125      |                        | 1     | 3            | 40            | RB                             | SKR11  |
| 480-598500             | 10125      |                        | 2     | 3            | 41            | NFC (RB)                       | SKR11  |
| 480-598500-05400       | 10126      |                        | 1     | 1            | 42            | CO                             | SKR11  |
| 480-598500-05400       | 10126      |                        | 2     | 1            | 43            | NFC                            | SKR11  |
| 480-598500-19239       | 10131      |                        | 1     | 1            | 44            | NFC                            | SKR11  |
| 480-598500-36304       | 10134      |                        | 1     | 1            | 45            | NS                             | SKR11  |
| 480-478199             | 10180      |                        | 1     | 1            | 49            | NS                             | SKR11  |
| 480-472833             | 10182      |                        | 1     | 2            | 50            | NFC                            | SKR11  |
| 480-472833             | 10182      |                        | 2     | 2            | 51            | NFC                            | SKR11  |
| 480-472833             | 10182      |                        | 2     | 2            | 52            | NS                             | SKR11  |
| 480-472833-73628       | 10183      |                        | 1     | 1            | 53            | NS                             | SKR11  |
| 480-472833-94244       | 10184      |                        | 1     | 1            | 54            | NS                             | SKR11  |
| 480-494800             | 10218      |                        | 1     | 2            | 55            | CO                             | SKR11  |
| 480-494800             | 10218      |                        | 3     | 1            | 56            | NFC                            | SKR11  |
| 480-519703             | 10231      |                        | 1     | 1            | 57            | NS                             | SKR11  |
| 480-519703             | 10231      |                        | 2     | 1            | 58            | NS                             | SKR11  |
| 480-484667             | 10269      |                        | 1     | 1            | 59            | NS                             | SKR11  |
| 480-471159             | 10271      |                        | 1     | 2            | 60            | NS                             | SKR11  |
| 480-466800-12000-47139 | 10274      |                        | 1     | 3            | 61            | NFC                            | SKR11  |
| 480-466800             | 10284      |                        | 1     | 4            | 62            | CO RB                          | SKR11  |
| 480-466800             | 10284      |                        | 2     | 4            | 63            | RB                             | SKR11  |
| 480-466800             | 10284      |                        | 7     | 2            | 64            | CT                             | SKR11  |



**Table1: Historic Information on fish presence in the Project Area.**

| Watershed Code         | Recent ILP | Old Stream ID/ old ILP | Reach | Stream Order | Historic Site | Fish Species/ Sampling Results | Source |
|------------------------|------------|------------------------|-------|--------------|---------------|--------------------------------|--------|
| 480-466800             | 10284      |                        | 9     | 2            | 65            | NFC                            | SKR11  |
| 480-466800-55506       | 10289      |                        | 2     | 1            | 66            | NS                             | SKR11  |
| 480-466800-65938       | 10296      |                        | 1     | 1            | 67            | NS                             | SKR11  |
| 480-454229             | 10342      |                        | 1     | 1            | 68            | NS                             | SKR11  |
| 480-459100             | 10346      |                        | 1     | 1            | 69            | NS                             | SKR11  |
| 480-460300             | 10347      |                        | 1     | 3            | 70            | RB                             | SKR11  |
| 480-460300-20100       | 10349      |                        | 1     | 2            | 71            | NFC                            | SKR11  |
| 480-460300-20100-51498 | 10350      |                        | 1     | 1            | 72            | NS                             | SKR11  |
|                        | 10352      |                        | 1     | 2            | 73            | NFC                            | SKR11  |
|                        | 10355      |                        | 1     | 1            | 74            | NS                             | SKR11  |
|                        | 10359      |                        | 1     | 1            | 75            | NS                             | SKR11  |
| 480-559500             | 10844      |                        | 1     | 4            | 12            | NFC (CT RB)                    | SKR11  |
| 480-559500             | 10844      |                        | 2     | 4            | 13            | CT RB                          | SKR11  |
| 480-559500             | 10844      |                        | 4     | 3            | 14            | RB                             | SKR11  |
| 480-494800-45337       | 10854      |                        | 1     | 2            | 76            | NS                             | SKR11  |
| 480-559500-76552       | 10858      |                        | 1     | 1            | 15            | NFC                            | SKR11  |
| 480-559500-76552       | 10858      |                        | 3     | 1            | 16            | NS                             | SKR11  |
| 480-598300             | 10090      | Stream 5               | 1     | 2            | 100           | NFC                            | SKR12  |
| 480-595000-08600       | 10003      |                        | 2     | 2            | 3             | NFC                            | SKR13  |
| 480-595000-08600-14920 | 10004      | Stream 3               | 2     | 1            | 2             | NS                             | SKR13  |
| 480-595000-24601       | 10006      |                        | 1.2   | 1            | 4             | NS                             | SKR13  |
| 480-595000-26610       | 10007      |                        | 1     | 1            | 1             | NS                             | SKR13  |
|                        | 90009      | 90009                  | 1     | 1            | 1             | NS                             | SKR14  |
| 480-494800-45337       | 10354      |                        | 1     | 1            | 4             | NS                             | SKR15  |
|                        | 10356      |                        | 1     | 1            | 3             | NFC                            | SKR15  |
|                        | 10357      |                        | 1     | 1            | 2             | NS                             | SKR15  |
| 480-559500-79045       | 10060      |                        | 1     | 1            | 2             | NS                             | SKR16  |
| 480-559500-76000       | 10063      |                        | 2.1   | 2            | 8             | NFC                            | SKR16  |
| 480-559500-76000       | 10063      |                        | 2.2   | 2            | 6             | NS                             | SKR16  |
| 480-559500-76000       | 10063      |                        | 3     | 1            | 5             | NS                             | SKR16  |
| 480-559500-71100       | 10064      |                        | 1     | 2            | 7             | NFC                            | SKR16  |
| 480-559500-76000-61169 | 10065      |                        | 1     | 1            | 4             | NS                             | SKR16  |
| 480-559500             | 10844      | 10142                  | 6     | 2            | 3             | NFC                            | SKR16  |
| 480-559500             | 10844      | 10142                  | 7     | 2            | 1             | NS                             | SKR16  |
|                        | 90014      |                        | 2     | 1            | 11            | NFC                            | SKR16  |
| 480-466091             | 10280      |                        | 1     | 2            | 2             | NS                             | SKR17  |
| 480-466091             | 10280      |                        | 2     | 1            | 4             | NS                             | SKR17  |
| 480-466091-61574       | 10281      |                        | 1     | 1            | 3             | NS                             | SKR17  |
| 480-465500             | 10282      |                        | 1     | 1            | 5             | NFC                            | SKR17  |
| 480-463533             | 10283      |                        | 1     | 1            | 6             | NFC                            | SKR17  |
| 480-460300-20100       | 10349      |                        | 1     | 2            | 71            | RB                             | SKR17  |
| 480-460300-20100       | 10349      |                        | 2     | 2            | 1             | NFC                            | SKR17  |
| 480-598500             | 10125      |                        | 2     | 3            |               | RB                             | SKR18  |

**Table1: Historic Information on fish presence in the Project Area.**

| Watershed Code         | Recent ILP | Old Stream ID/ old ILP | Reach | Stream Order | Historic Site | Fish Species/ Sampling Results | Source |
|------------------------|------------|------------------------|-------|--------------|---------------|--------------------------------|--------|
| 480-598500-42500       | 10136      |                        | 1     | 2            | 1             | NFC                            | SKR18  |
| 480-598500-48300-16009 | 10138      |                        | 1     | 1            | 3             | NFC                            | SKR18  |
| 480-598500-48300       | 10139      |                        | 1.2   | 1            | 2             | NFC                            | SKR18  |
| 480-449976             | 10341      |                        | 1     | 1            | 6             | NS                             | SKR19  |
| 480-454229             | 10342      |                        | 1     | 1            | 5             | NS                             | SKR19  |
| 480-455700             | 10343      |                        | 1     | 1            | 4             | NS                             | SKR19  |
| 480-457362             | 10344      |                        | 1     | 1            | 3             | NS                             | SKR19  |
| 480-458339             | 10345      |                        | 1     | 1            | 2             | NS                             | SKR19  |
| 480-459100             | 10346      |                        | 1     | 1            | 1             | NFC                            | SKR19  |
| 480-559500-71100       | 10064      |                        | 1     | 2            | 12            | NFC                            | SKR20  |
| 480-455700             | 10343      |                        | 1     | 1            | 4             | NFC                            | SKR20  |
| 480-459100             | 10346      |                        | 1     | 1            | 1             | NFC                            | SKR20  |
| 480-559500             | 10844      |                        | 6     | 2            | 13            | NFC                            | SKR20  |
|                        | 11007      | Stream 3A              | 1     | 1            | 16            | NS                             | SKR20  |
| 480-595000-81300       | 10009      | Stream 7               | 1     | 1            | 16            | NFC                            | SKR21  |
| 480-545800             | 10041      |                        | 1     | 2            | 7             | CAS                            | SKR21  |
| 480-545800             | 10041      |                        | 2     | 1            | 8             | NS                             | SKR21  |
| 480-541300             | 10055      |                        | 4     | 3            | 17            | RB                             | SKR21  |
| 480-541300-37200       | 10056      |                        | 1.1   | 2            | 1             | NFC                            | SKR21  |
| 480-541300-37200       | 10056      |                        | 1.1   | 2            | 12            | NFC                            | SKR21  |
| 480-541300-37200       | 10056      |                        | 1.2   | 1            | 2             | NS                             | SKR21  |
| 480-541300-65967       | 10057      | Stream 1               | 1     | 1            | 6             | NFC                            | SKR21  |
| 480-513700             | 10227      | Stream 6               | 2     | 2            | 9             | NFC                            | SKR21  |
| 480-513700-76062       | 10229      | Stream 5               | 1     | 1            | 10            | NS                             | SKR21  |
| 480-522200             | 10232      | Stream 3               | 1.1   | 2            | 13            | NS                             | SKR21  |
| 480-522200             | 10232      | Stream 3               | 1.2   | 2            | 14            | NS                             | SKR21  |
| 480-522200             | 10232      | Stream 3               | 2     | 2            | 15            | NS                             | SKR21  |
|                        | 11008      | NCD #11                | 1     | 1            | 11            | NS                             | SKR21  |
|                        | 11009      | Stream 7               | 1     | 1            | 3             | NS                             | SKR21  |
|                        | 11010      | Stream 10              | 1     | 1            | 5             | NS                             | SKR21  |
|                        | 11011      | Stream 9               | 1     | 1            | 4             | NFC                            | SKR21  |
| 480-466091             | 10280      |                        | 1     | 2            | 2             | NFC                            | SKR22  |
| 480-465500             | 10282      |                        | 1     | 1            | 5             | NFC                            | SKR22  |

### 3. Methods

The follow-up sampling project was completed in four phases as outlined in the *Reconnaissance (1:20 000) Fish and Fish Habitat Inventory: Follow-up Sampling (Stream) Standards* [2]:

- Phase 1-3: Pre-field Planning
- Phase 4: Field Data Collection
- Phase 5: Data Compilation
- Phase 6: Report and Mapping

#### 3.1 Pre-field Planning

Planning for this project entailed compiling existing information and identifying information gaps, with the intent to conclusively determine fish distribution through follow-up sampling in order to confirm or finalize all FPC stream classifications. This involved incorporating any follow-up sampling recommendations from the previous FFHI report as well as past operational inventory results (SKR1-22). All other aspects of the pre-field phase were conducted as part of the original Reconnaissance Inventory. Sampling to determine upper limit of fish use in each stream followed the methodology as outlined in this project planning document (Attachment I).

##### 3.1.1 Field Data Information System (FDIS)

FDIS data for this project was consolidated into one FDIS database, which incorporates existing data from previous reconnaissance FFHI. Historic site data are not included in the FDIS database, but are included with the digital deliverables for this project. Summarized historic site information is on the Project/Interpretive maps in Appendix II.

#### 3.2 Field Data Collection

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: Follow-up Sampling (Stream) Standards* [2] and *Reconnaissance (1:20,000) Fish and Fish Habitat Inventory: Standards and Procedures* [3] manuals and all standards referenced therein.

##### 3.2.1 Field Equipment

All sampling equipment specifications are listed below:

- Smith-Root model 12B P.O.W. backpack Electrofisher
- Garmin 12 handheld GPS unit
- Pentax OptioWP digital camera
- Colourimetric paper for pH testing
- Oakton TDSTestr3 conductivity meter (with 1413 $\mu$ S/cm solution)
- alcohol thermometer
- Silva compass,
- Abney Level,

- miscellaneous equipment including tight chains, hip chains, dip net, fishing rods, magnifying lenses, meter sticks, meter tapes, genetic sampling kit, small plastic bags
- 4X4 truck equipped with Level 1 First Aid kits and 2 personal First Aid kits, as per WCB requirements
- 12'6" inflatable Quicksilver boat with Mariner 20 HP jet motor

### 3.2.2 Fish Sampling

Electrofishing, dip netting and visual observation were the primary methods used for fish sampling throughout 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, however these circumstances did not occur.

Electrofishing effort was extended to confirm fish distribution limits or fish status in reaches:

- where the fish presence/absence were inconclusive during previous efforts despite of the presence of usable fish habitat,
- where no fish sampling was conducted in the immediate vicinity of historically documented physical barriers, or,
- where low density fish populations were suspected.

### 3.2.3 Measurements

Stream channel and wetted widths were determined using a meter tape. Six channel width measurements were typically made at each site at a distance of approximately 20m 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 GPS or by ground estimate.

Cascade heights and lengths were determined using a hip chain and Abney level. Vertical cascade height was calculated using the gradient and slope distance according to the formula:

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

Stream water temperatures were determined using an alcohol thermometer. Conductivity measurements were made using Oakton portable meter which was calibrated daily using standardized solution, while pH was measured using colourimetric paper.

Water velocities for dewatered channels were calculated using Manning formula from Hewlett [4].

$$V = 1/n \times R_h^{2/3} \times S^{1/2}$$

Where:        n - sum of roughness coefficients  
              Rh - hydraulic radius  
              S - slope

### 3.2.4 Site Numbering Convention

Site numbers for this project are in ascending order starting from number 101, so they can be distinguished from the previous reconnaissance inventory sites. Site numbers have been included in all tables that provide specific reach sampling information and on all photographs and photo documentation indices.

### 3.2.5 Appendix Layout

FDIS site cards with respective fish forms of sampled reaches have been included in Appendix I. Photographs for each site are included with the site forms and are labeled according to the standards.

Project/Interpretive maps summarizing fish distribution and site information are included in Appendix II.

### 3.2.6 Mapping

The BC Ministry of Environment Marker Symbols were used to depict all features obtained from the reports. However, different colours were applied sometimes to separate the historic and current features.

HFP provided all the TRIM shapefiles for the mapping purposes. The stream TRIM shapefile was supplemented by HFP's GPS stream coverage, by the interpretation of orthophotos, and by traversing unmapped channels, with the purpose of accurately depicting the site locations from the operational inventories. Those TRIM streams locations, which differ from GPS coverage, are not displayed on the maps in order to avoid confusion.

Reach breaks identified by the SKR in the original report have been supplemented and modified where necessary. New reaches locations were obtained from the following operational inventories and also were sometimes changed, based on the field findings during this study. The reaches with noted differences in the field were verified in the office using orthophoto coverage for the study area, and then digitized and georeferenced. Reach gradients are displayed on the maps as per RIC mapping standards [4]; however reach data symbols were omitted due to the high density of presented information. All additional reaches are incorporated into the FDIS database.

All sites from this year inventory are depicted black, sites from the 1999 original inventory are red and the remaining historic sites are purple. The Site Data and Reach Summary Symbols (SDRSS) were combined together to allow displaying the stream morphology and riparian classification information in one place. For the remaining historic sites Reach Summary Symbols (RSS) were used as the stream morphology data were not available from old DFO/MOE forms. The report indices for the respective

site data are attached to the SDRSS and RSS symbols for an ease of referencing to the original data source; the symbols are connected to the site locations. The site reference numbers for the current and 1999 inventories are placed in the vicinity of site symbols. All the remaining historic site reference numbers are not displayed due to the identical numbering for many sites within the same source and which could cause reader's confusion.

The fish-bearing status of streams is represented on the maps using colour linework. Solid red lines indicate confirmed fish presence while dashed red lines indicate that fish presence is suspected but has not been confirmed. Dashed blue lines indicate that fish absence is suspected but has not been confirmed while solid blue lines indicate confirmed fish absence. Green lines indicate presence of non classified drainage reaches. It has to be noted that fish presence not necessary extends to the upper reach boundary, where the transition to the inferred classification occurs and is depicted by dashed lines.

To facilitate display and to avoid clutter the upper fish distribution limits are shown by the transition from the dashed or solid red or blue lines to solid blue or green line colour instead of the specific fisheries symbols.

All digital mapping, mapping files and hard copy maps are completed as per RIC standards [5].

## **4. Results and Discussion**

The following sections present fish and fish habitat information results for the project area. To cross-reference current results to historic data, all streams are identified by watershed code (where available) and ILP in the body of the 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 Appendix I, and depicted on the Project/Interpretive maps.

### **4.1 Logistics**

Cancellation of the originally scheduled field QA was the main logistic problem over the course of the project. The re-scheduled sampling of five sites<sup>1</sup> for the next mutually available time period four weeks later compromised sampling timing, mode of access, site selection according to the pre-field sampling plan, and the data acquired. In addition, access to reach 4 of 480-59300 (ILP 10018) could not be obtained by road and this resulted in an unplanned site substitution.

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<sup>1</sup> Streams (480-59300 (ILP 10018) R4, 480-59500 (ILP 10115) R4, 480-466800-12000-47139 (ILP 10274) R1 and R2), and 480-460300 (ILP 10347) R2.

## 4.2 Biophysical Information of Study Area

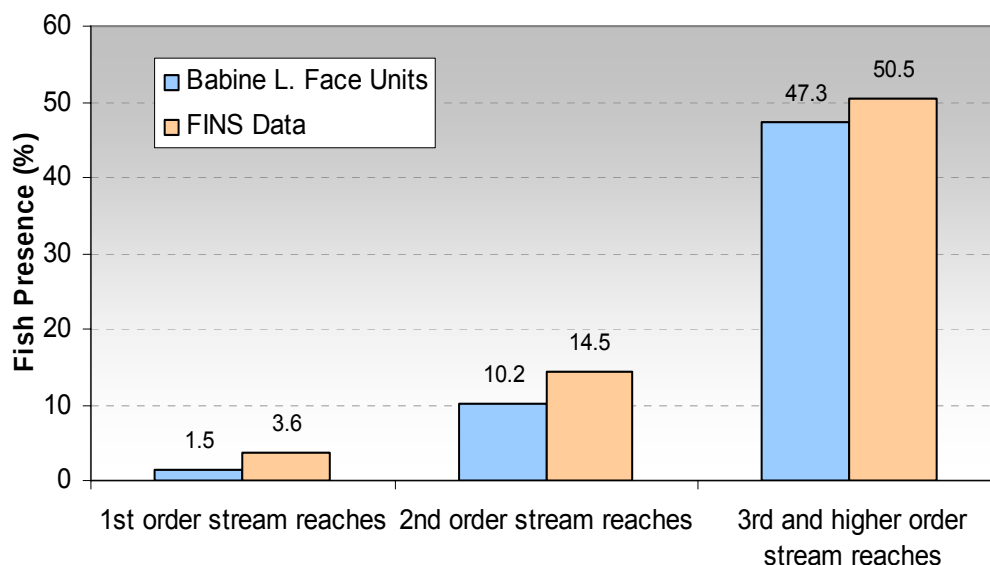
For a detailed description of the study area refer to the original report *SKR. 2000. Reconnaissance (1:20,000) Fish and Fish Habitat Inventory of selected inlet streams to Babine Lake. Watershed Code: 480-000000 (SKR11)*.

## 4.3 Habitat and Fish Distribution

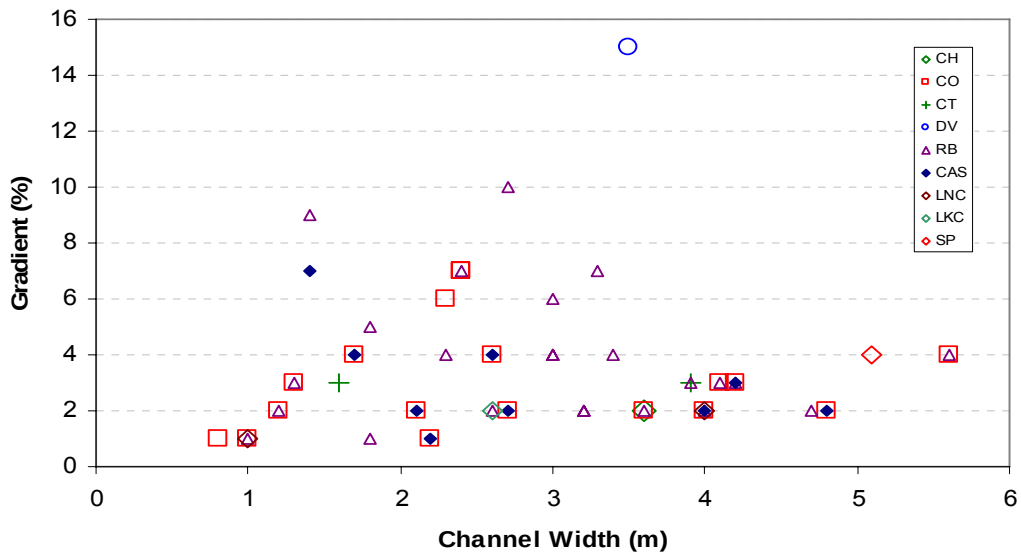
A total of 17 reaches were sampled in the project area during this inventory, supplementing the 78 original sample sites completed in the 1999 inventory and 181 sites completed during various operational stream inventories.

Fish distribution results, in terms of the percentage of stream reaches containing fish relative to stream order, from the current study, including analysis of past inventories within the project area, were consistent with the findings of past inventories conducted by Jedrzejczyk and Redden [26, 27] in 1996 and FINS through year 1997 – 2003 [6-24] within Babine Lake watershed (Figure 2).

Fish distribution within the streams of the Babine Face Units generally depended on the availability and quality of habitat, access to that habitat and the proximity to fish bearing water bodies downstream. Perennial streams with diverse and abundant habitat were populated more frequently than streams lacking habitat complexity or ephemeral drainages. Size and depth of the channel, stream gradient and season played crucial roles in sustaining fish populations. The majority (89.8%) of fish captures during all inventories occurred in streams where channel width was greater than 1m and gradient was less than 8%. The relationship between channel width, gradient and fish species presence in the Babine L. Face Units is shown in Figure 3.

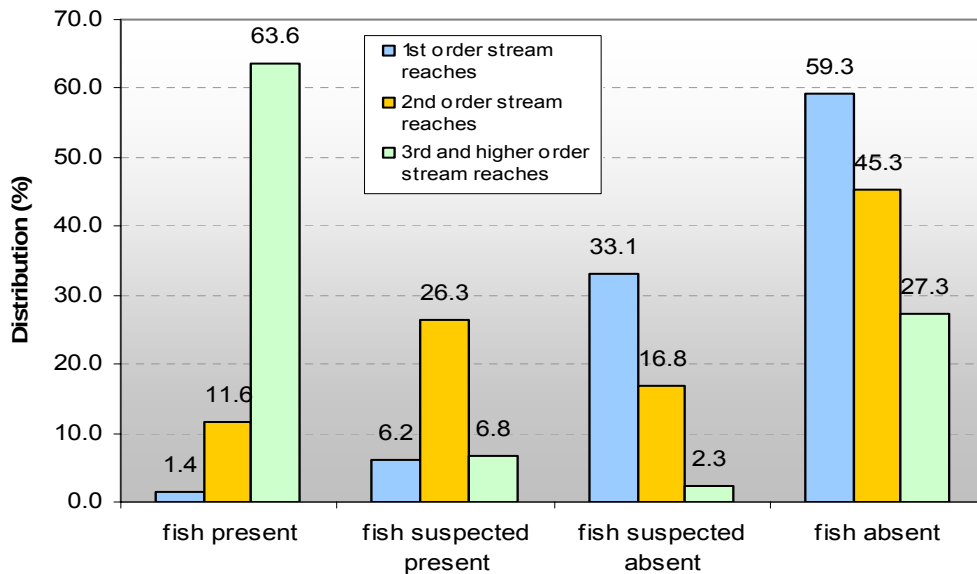


**Figure 2. Comparison of fish presence distribution of Babine L. Face Units (n=280) to FINS compiled data [6-27] for Babine L. watershed (n=1254) in different stream order.**



**Figure 3. Relationship between channel width, gradient and fish species presence in the Babine L. Face Units (n=59).**

Only 1.3% of 1<sup>st</sup> order stream reaches in study area were inhabited by fish. The likelihood of fish presence increased almost sixteen folds for the 2<sup>nd</sup> order stream reaches (20.7%) and nearly fifty folds for 3<sup>rd</sup> and greater order stream reaches (61.8%) (Figure 4).



**Figure 4. Fish presence/absence in various stream orders within Babine L. Face Units.**



#### 4.3.1 Summary: Third and Higher Order Streams

Three 3<sup>rd</sup> order reaches were sampled by SKR since the original inventory in 1999. Rainbow trout presence was confirmed in reach 2 of 480-598500 (ILP 10125) and in reach 4 of 480-541300 (ILP 10055). No fish were captured during sampling in reach 3 of 480-598200-43400 (ILP 10105), confirming non-fish bearing status<sup>2</sup> above the cascade barrier identified in 1999 in reach 3.1 of parent stream 480-598200 (ILP 10110) (See Table 1).

Six 3<sup>rd</sup> order reaches were visited during the current (2006) follow-up sampling. Coho salmon and prickly sculpin were captured in reach 1 of 480-579300 (ILP 10024), and Dolly Varden were captured in reach 1.1. Rainbow trout were captured in Reach 1.1 in 480-460300 (ILP 10347). Streams 480-466800-12000-47139 (ILP 10274) and 480-561100 (ILP 10034) were found to be non-fish bearing.

Reach 1 of 480-579300 (ILP 10024) contained the highest fisheries values of six reaches, where coho spawning and juvenile rearing habitats were found within a 90 m long section upstream from the mouth.

An impassable cascade of 9m high and 53m long at the end of reach 1.1 in 480-460300 (ILP 10347) marks the upper limit of fish distribution in this drainage. Stream 480-466800-12000-47139 (ILP 10274) was found to be barren of fish, while stream 480-561100 (ILP 10034) was inaccessible to fish from Babine L.

#### 4.3.2 Summary: Second Order Streams

Twenty three (23) second order reaches were sampled by SKR since the original inventory in 1999. Rainbow trout presence was confirmed only in reach 1 of 480-460300-200100 (ILP 10349). Fish use was suspected in 12 reaches and ten reaches were confirmed to be non-fish bearing (Table 1).

Eight reaches were visited during the current (2006) inventory. Coho and prickly sculpin (CAS) were captured in reach 1 of 480-593400 (ILP 10018) and 480-505600 (ILP 10222) while only coho were captured in 480-472833 (ILP 10182). Fish absence was confirmed in 480-598500-34896 (ILP 10132), beyond reach 1 of 480-513700 (ILP 10227) and in 480-471159 (ILP 10271). Stream 480-593400-74462 (ILP 10021) requires further sampling to establish fish-bearing status. A 2.5m high and 11m long cascade at the end of reach 3.2 of 480-595000 (ILP 10115) defines the upstream limit of fish distribution for this system.

Good coho spawning and rearing habitat, as well as potential overwintering pools in reach 1 of 480-505600 (ILP 10222) provided high fisheries values among these reaches. However, taking into consideration fish abundance, 480-593400 (ILP 10018) offered exceptional fisheries values among sampled streams. This is discussed in more detail in section 4.5.1.

<sup>2</sup> The FPC identifies four categories which define a stream's status as fish-bearing: (1) anadromous salmonids, (2) freshwater gamefish, (3) threatened or endangered species and (4) regionally important species.

### 4.3.3 Summary: First Order Streams

Thirty nine (39) first order reaches were sampled by SKR since the original inventory in 1999. No fish were captured in any first order streams; however fish use was inferred in 8 reaches. Thirty-one (31) reaches were confirmed to be non-fish bearing (Table 1).

Three reaches sampled during the current (2006) inventory were confirmed to be non fish bearing.

### 4.3.4 Physical Barriers

All historically identified physical barriers (falls, cascades) or features and which influence fish access and distribution within the study area, were compiled along with any new features identified during the current (2006) inventory. Some of the historic features reported were not identified in the 'features' section of field cards designated for that purpose, but were clearly described in the comments section as well as in the body of respective reports. These features were included in this report and are depicted on maps as they often define fish distribution limits. Additional features which are located upstream of identified barriers which define the end of fish use (EFU) or upper fish distribution limit, were not incorporated into this report as they are irrelevant in terms of fish distribution and FPC stream classification.

Impassable cascades were the dominant type of the permanent barriers (features) preventing fish access into upper reaches. Channels that dispersed into indistinct or discontinuous watercourses which do not meet the FPC definition of a stream and do not allow upstream fish migration were also very common, particularly in the proximity to the Babine L.

All features previously known or identified within the study area are summarized in Table 2.

**Table 2: Summary of historic and new features present in the Study Area.**

| Watershed Code         | ILP   | Map      | Reach | Site | Feature           | Height (m) | Length (m) | Verified in field? | Comments                                                                                                                                 |
|------------------------|-------|----------|-------|------|-------------------|------------|------------|--------------------|------------------------------------------------------------------------------------------------------------------------------------------|
| 480-561100             | 10034 | 093M.008 | 1     | 107  | Subterranean flow |            | 40         | Y                  | Impassable barrier to fish.                                                                                                              |
| 480-545800             | 10041 | 093M.008 | 2     | 2    | Cascade           | 7          | 15         | N                  | A 15m long steep gradient section (up to 50%) at the lower extent of the reach has been identified as a barrier to fish migration.(SKR3) |
| 480-545800-21846       | 10042 | 093M.008 | 1     |      | Falls             | 1          |            | N                  | 820m u/s from Babine L., potential barrier. (SKR3)                                                                                       |
| 480-549400             | 10044 | 093M.008 | 1     | 1    | Debris Jam        | 1.2        |            | N                  | 120m upstream of the lake. (SKR3) Identified as falls in the report.                                                                     |
| 480-541300-37200       | 10056 | 093M.008 | 1.1   | 1    | Cascade           | 3.2        | 9          | N                  | A 35% gradient cascade was located in the lower 10m of this reach; this cascade may be a barrier to fish passage. (SKR21)                |
| 480-559500-63900       | 10067 | 093M.018 | 1     | 4    | Subterranean flow |            | 150        | N                  | No channel in lower 150m of reach. (SKR6)                                                                                                |
| 480-559500-63900-13000 | 10070 | 093M.018 | 2     | 2    | Subterranean flow |            | 25         | N                  | Channel is totally undefined for 25m near the confluence with mainstem. (SKR6)                                                           |

**Table 2: Summary of historic and new features present in the Study Area.**

| Watershed Code         | ILP   | Map      | Reach | Site | Feature                  | Height (m) | Length (m) | Verified in field? | Comments                                                                                                                                                                            |
|------------------------|-------|----------|-------|------|--------------------------|------------|------------|--------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 480-559500-51000       | 10072 | 093M.008 | 1     | 5    | Cascade                  |            |            | N                  | Gradient increases to greater than 20% about 15 meters upstream of the confluence with ILP 10844 (SKR11)                                                                            |
| 480-559500-47100       | 10076 | 093M.008 | 1     | 8    | Cascade                  |            |            | N                  | Gradient barrier (20%) immediately upstream of confluence with ILP 10844 (SKR11)                                                                                                    |
| 480-559500-22600       | 10079 | 093M.008 | 2     | 10   | Cascade                  | 9          | 40         | N                  | At confluence (reach 1), also entered in reach card. (SKR11)                                                                                                                        |
| 480-559500-22600       | 10079 | 093M.008 | 2     | 10   | Cascade                  | 40         | 80         | N                  | 170m upstream of confluence (reach 1), also entered in reach card. (SKR11)                                                                                                          |
| 480-598300             | 10090 | 093M.019 | 1     | 10   | Subterranean flow        |            | 50         | N                  | The lower 50m of the stream is a barrier to fish migration, due to the lack of a defined channel. (SKR7)                                                                            |
| 480-598200             | 10094 | 093M.019 | 3.1   | 28   | Cascade                  | 4          | 20         | N                  | ~560m u/s of confluence with ILP 10101. (SKR11)                                                                                                                                     |
| 480-595000             | 10115 | 093M.009 | 3.2   | 102  | Cascade                  | 2.5        | 11         | Y                  | Impassable barrier to fish.                                                                                                                                                         |
| 480-472833             | 10182 | 093M.018 | 2     | 51   | CV                       | 0.5        |            | N                  | Hanging culvert. (SKR 11)                                                                                                                                                           |
| 480-472833-94244       | 10184 | 093M.018 | 1     | 54   | Subterranean flow        |            | 30         | N                  | No channel for 30m located 5m u/s from ILP10182 appears to be a barrier. (SKR11)                                                                                                    |
| 480-503400             | 10221 | 093M.018 | 1     | 3    | Subterranean flow        |            | 50         | N                  | The wetland nature of the lower extent of the reach appears to prevent fish passage. (SKR11)                                                                                        |
| 480-522200             | 10232 | 093M.018 | 1     | 10   | Cascade                  | 12.5       | 50         | N                  | 50m from mouth gradient increases to 25% for 50m. (SKR21)                                                                                                                           |
| 480-522200             | 10232 | 093M.008 | 2     | 14   | Cascade                  | 24         | 100        | N                  | Bedrock cascade ~ 800m upstream from the lake (in reach 2) is a definite barrier. (SKR21)                                                                                           |
| 480-471159             | 10271 | 093M.028 | 1     | 112  | Severe dewatering        |            | 15         | Y                  | Restricts fish access.                                                                                                                                                              |
| 480-466800-12000-47139 | 10274 | 093M.028 | 1     | 114  | Velocity barrier         | 5.5        | 50         | Y                  | Impassable to juveniles at moderate to high flows.                                                                                                                                  |
| 480-466091             | 10280 | 093M.028 | 1     | 2    | Subterranean flow        |            | 40         | N                  | Lack of channel in lower 40m. (SKR17)                                                                                                                                               |
| 480-465500             | 10282 | 093M.028 | 1     | 5    | Subterranean flow        |            | 5          | N                  | Lower 5m of stream has seepage only through beaver trails. (SKR17)                                                                                                                  |
| 480-466800-55506       | 10289 | 093M.028 | 2     | 66   | Fisheries Sensitive Zone |            | 30         | N                  | Lower 30m of the reach may provide seasonal rearing habitat. (SKR11)                                                                                                                |
| 480-449976             | 10341 | 093M.028 | 1     | 6    | Cascade                  | 3          | 9          | N                  | Location 3m upstream of Babine Lake identified as barrier to fish passage. (SKR19)                                                                                                  |
| 480-449976             | 10341 | 093M.028 | 1     | 6    | Cascade                  | 2.6        | 12         | N                  | Located 45m upstream of Babine Lake identified as barrier to fish passage. (SKR19)                                                                                                  |
| 480-455700             | 10343 | 093M.028 | 1     | 4    | Subterranean flow        |            | 30         | N                  | 30m seepage section at bottom of reach is a barrier. (SKR19)                                                                                                                        |
| 480-457362             | 10344 | 093M.028 | 1     | 3    | Cascade                  | 3          | 9          | N                  | Located ~5m upstream of Babine Lake was identified as an obstruction to fish passage; the lower 30m average 38% in gradient, and lacked a well defined, continuous channel. (SKR19) |
| 480-460300             | 10374 | 093M.028 | 1.1   | 116  | Cascade                  | 9          | 53         | Y                  | Impassable barrier to fish.                                                                                                                                                         |
| 480-460300             | 10374 | 093M.028 | 1.1   | 116  | Severe dewatering        |            | 80         | Y                  | Restricts fish access.                                                                                                                                                              |
| 480-559500             | 10844 | 093M.008 | 1     | 2    | Severe dewatering        |            | 1200       | N                  | Located ~300m upstream of Babine Lake. (SKR3)                                                                                                                                       |
| 480-559500             | 10844 | 093M.008 | 1     | 6    | Debris jam               |            |            | N                  | A log jam with sediment build-up is located at the lower extent of the sample site, and appears to divert the water into ILP 00510. (SKR3)                                          |
| 480-559500             | 10844 | 093M.018 | 5     | 13   | Subterranean flow        |            |            | N                  | Channel discontinuities in reach 5 are likely barriers to fish passage. (SKR20)                                                                                                     |

### 4.3.5 Biological Samples

Although the Ministry of Environment (MoE) was interested in obtaining biological structures from rainbow trout for genetic analysis, sampling at the MoE stream of interest (stream 480-595000 (ILP 10115) reach 3.2) yielded no fish.

## 4.4 Fish Stage, Size and Life History

Fork length and maturity level of all fish sampled were recorded on the combined RIC standard Fish Collection 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 sampled fish appeared healthy and did not exhibit any external signs of disease.

### 4.4.1 Relative Fish Abundance

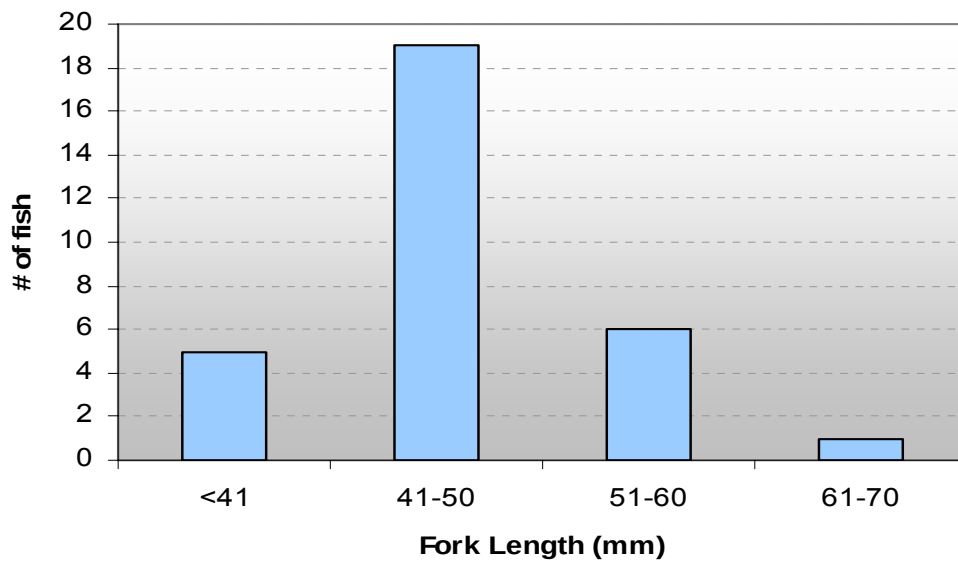
As a result of several years of observation and extensive use of electrofishing as a sampling method in small sized streams (streams less than 8 m wide), FINS developed a relative fish abundance scale, based on Catch per Unit Effort (CPUE) (the number of fish captured during 100 sec of electrofishing). This scale, shown in Table 3, is a valuable tool to compare, interpret and describe fish stream productivity within a study area and has been applied to fish sampling results from the current (2006) inventory in the following sections.

**Table 3: FINS Relative Fish Abundance Scale**

| Relative Abundance | Fish Density       | CPUE range (per 100 seconds EF) |
|--------------------|--------------------|---------------------------------|
| HIGH               | extremely abundant | ≥ 55                            |
|                    | very abundant      | 30 - 54                         |
| MODERATE           | abundant           | 16 - 29                         |
|                    | common             | 6 - 15                          |
| LOW                | scarce             | 1 - 5                           |
|                    | very scarce        | < 1                             |

### 4.4.2 Coho salmon

Coho juveniles were found in the first reaches of four direct tributaries to Babine L. where channel widths ranged from 1.6 – 2.7 m and gradient did not exceeded 6%. The fork length of 31 captured fish ranged from 39 to 63 mm, suggesting the presence of fish in age class 0+ only (FINS [6-9, 11-13], Jedrzejczyk and Redden [26, 27], Scott and Crossman [28], SKR11, Triton [29]). However, taking into the consideration time of sampling (July 2) and 63 mm coho coincidentally captured in 480-505600 (ILP 10222), where potential overwintering habitat was noted, it is speculated that juvenile at age 1+ may also be present. Length frequency results for coho are summarized in Figure 5 and Table 4.



**Figure 5. Length frequency of coho captured in Babine L. Face Units.**

**Table 4: Mean and standard deviation (SD) for coho captured in Babine L. Face Units.**

| Watershed Code/ ILP | Age | n  | Range (mm) | Mean  | SD   |
|---------------------|-----|----|------------|-------|------|
| 480-593400/10018    | 0+  | 10 | 48 - 57    | 50.50 | 3.21 |
| 480-579300/10024    | 0+  | 6  | 43 - 58    | 48.00 | 6.20 |
| 480-472833/10182    | 0+  | 5  | 39 - 40    | 39.80 | 0.45 |
| 480-505600/10222    | 0+  | 9  | 45 - 51    | 46.89 | 2.20 |
|                     | 1+  | 1  | 63         | 63.00 | NA   |
| Combined            |     | 31 | 39 - 63    | 47.65 | 5.64 |

Variable mean lengths suggest potentially different spawning timing in these streams. It is speculated that spawning is influenced by low flow conditions observed during this and past inventories, and consequently access for spawners to their natal streams is delayed. A group of smaller sized coho captured in 480-472833 (ILP 10182) likely indicates that spawning takes place few weeks later in this stream than in others. As fry emergence likely coincides with low flows, such conditions may severely affect the survival rate of coho in the drainage.

The observed low flow conditions also indicate that juvenile fish likely rear in these streams for very limited duration and quickly migrate to Babine L. to complete rearing in a more secure environment. Such behaviour is common, however not typical of the coho life history as reported in the literature. A massive downstream migration of

juvenile coho was observed in 480-593400 (ILP 10018); numerous schools of fish were seen near the stream mouth in the lake and hundreds of juvenile fish were present throughout the reach, substantiating the above theory.

Catch per unit effort in Table 5 shows densities of captured coho in the four visited tributaries. CPUE for 480-472833 (ILP 10182) was not calculated due to fish capture in one isolated pool and not in flowing water.

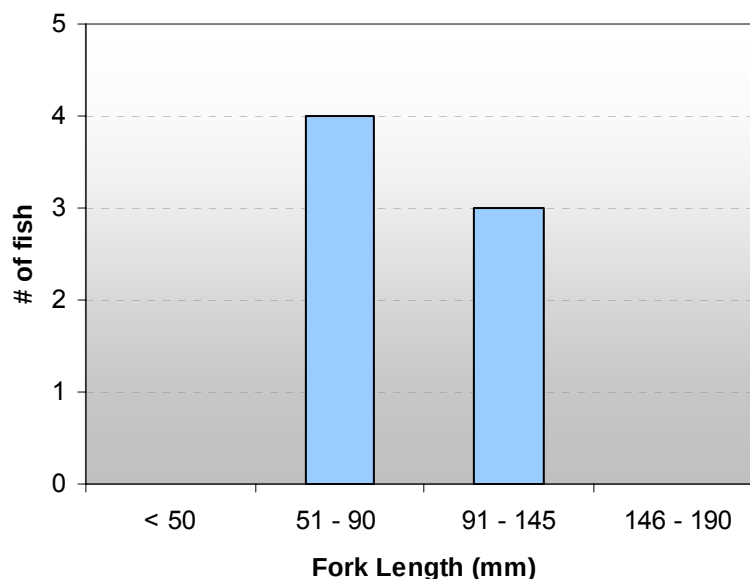
**Table 5: CPUE data for coho captured in Babine L. Face Units.**

| Watershed Code/ ILP | n  | EF effort (sec) | CPUE | Fish Density* |
|---------------------|----|-----------------|------|---------------|
| 480-593400/10018    | 10 | 24              | 41.7 | very abundant |
| 480-579300/10024    | 6  | 32              | 18.8 | abundant      |
| 480-472833/10182    | 5  | 7               | NA   | N/A           |
| 480-505600/10222    | 9  | 147             | 6.1  | common        |

\* According to Table 3.

#### 4.4.3 Rainbow trout

Rainbow trout were captured only in the second reach of 480-460300 (ILP 10347) immediately downstream of barriers within a channel with an average gradient of 10% and average channel width of 2.7 m. The fork length of seven rainbow trout captured ranged from 50 to 114 mm (Figure 6), suggesting the presence of fish of age classes 1+ and 2+ (FINS [6-25], Jedrzejczyk and Redden [26, 27], SKR11, Triton [29]. Data for length frequency are presented in Table 6.



**Figure 6. Length frequency of rainbow trout captured in Babine L. Face Units.**

**Table 6: Mean and standard deviation (SD) for rainbow trout captured in Babine L. Face Units.**

| Watershed Code/ILP | Age | n | Range (mm) | Mean   | SD    |
|--------------------|-----|---|------------|--------|-------|
| 480-460300/10347   | 1+  | 4 | 50 - 77    | 62.25  | 12.89 |
|                    | 2+  | 3 | 94 - 114   | 103.00 | 10.15 |
| Combined           |     | 7 | 50 - 114   | 79.71  | 24.33 |

Fish in stream were abundant confirming the presence of good rearing habitat for rainbow trout (Table 7). Rainbow trout likely represent the Babine L. resident population utilizing this drainage for rearing.

**Table 7: CPUE data for rainbow trout captured in Babine L. Face Units.**

| Watershed Code/ILP | n | EF effort (sec) | CPUE  | Fish Density * |
|--------------------|---|-----------------|-------|----------------|
| 480-460300/10347   | 7 | 28              | 25.00 | abundant       |

\* According to Table 3.

#### 4.4.4 Dolly Varden char

Dolly Varden were captured only in reach 1.1 of 480-579300 (ILP 10024) within a channel with an average gradient of 15% and average channel width of 3.5 m. The fork length measurements of two captured fish were 59 and 138 mm, suggesting the presence of fish at age 0+ and 3+ (Triton [29]). Data for length frequency are presented in Table 8.

**Table 8: Mean and standard deviation (SD) for Dolly Varden char captured in Babine L. Face Units.**

| Watershed Code/ILP | Age | n | Range (mm) | Mean   | SD    |
|--------------------|-----|---|------------|--------|-------|
| 480-579300/10024   | 0+  | 1 | 59         | 59.00  | NA    |
|                    | 3+  | 1 | 138        | 138.00 | NA    |
| Combined           |     | 2 | 59 - 138   | 98.50  | 55.86 |

Fish in stream were very scarce (Table 9) and likely represent a small fluvial population utilizing this drainage. The presence of good perennial habitat reported in 1999 (SKR11) in the reach 2 and in tributary – 579300-23200 as well as capture of fish in age class 0+ supports this theory.



**Table 9: CPUE data for Dolly Varden char captured in Babine L. Face Units.**

| Watershed Code/ILP | n | EF effort (sec) | CPUE | Fish Density * |
|--------------------|---|-----------------|------|----------------|
| 480-579300/10024   | 2 | 557             | 0.36 | very scarce    |

\* According to Table 3.

#### 4.4.5 Prickly sculpin

Prickly sculpin were found only in the first reaches of three direct tributaries to Babine L. where channel widths ranged from 1.6 – 2.7m and gradient did not exceeded 4%. Total length of 6 captured fish ranged from 47 to 97 mm. Prickly sculpin likely represent the Babine L. resident population and they were scarce to common in these streams. Length data and CPUE for prickly sculpin are summarized in Tables 10 and 11.

**Table 10: Mean and standard deviation (SD) for prickly sculpin captured in Babine L. Face Units.**

| ILP              | Age | n | Range (mm) | Mean  | SD    |
|------------------|-----|---|------------|-------|-------|
| 480-593400/10018 | NA  | 2 | 48 - 97    | 72.50 | 34.65 |
| 480-579300/10024 | NA  | 2 | 49 - 69    | 59.00 | 14.14 |
| 480-505600/10222 | NA  | 2 | 47 - 63    | 55.00 | 11.31 |
| Combined         |     | 6 | 47 - 97    | 62.17 | 19.31 |

**Table 11: CPUE data for prickly sculpin captured in Babine L. Face Units.**

| ILP              | n | EF effort (sec) | CPUE | Fish Density * |
|------------------|---|-----------------|------|----------------|
| 480-593400/10018 | 2 | 24              | 8.33 | common         |
| 480-579300/10024 | 2 | 32              | 6.25 | common         |
| 480-505600/10222 | 2 | 147             | 1.36 | scarce         |

\* According to Table 3.

## 4.5 Significant Features and Fisheries Observations

### 4.5.1 Blue Listed Species

Dolly Varden population was found in reach 1.1 of 480-579300 (ILP 10024). This specie is currently blue listed by the BC Ministry of Environment [31].

### 4.5.2 Fish and Fish Habitat

Field observations of good habitat quality and a CPUE of 41.7 (Table 5) signifying a high relative abundance (Table 3) indicate that stream 480-593400 (ILP 10018) is likely an important contributor to coho stocks in the study area. Hundreds of juvenile coho were in the process of downstream migration to Babine L. during the field visit, and



congregations of juveniles were present in the lake near the stream mouth. Reach 1 is a migratory route to important spawning areas upstream. Spawning sites should be located and protective measures should be undertaken in the future to prevent impacts to this habitat.

The fork-length of captured juveniles from this stream was also greater than coho from the other visited streams in the same age class group (Table 5). The presence of wetlands in reaches 2 and 4 likely results in slightly warmer water temperatures and consequently, increased growth rate and improved survival rates. These wetlands also likely moderate flows during spring freshet and reduce the number of displaced fish. In addition, the wetlands contribute to the maintenance of water levels during spawning, and may also contribute to improved egg survival due to moderated, consistent flows.

### **4.5.3 Habitat Protection Concerns**

#### **4.5.3.1 Fisheries Sensitive Zones**

No fisheries sensitive zones were identified in this inventory.

#### **4.5.3.2 Fish Above 20% Gradients**

No fish were captured within gradients greater than 20% and no isolated fish populations were found above barriers to fish migration.

#### **4.5.3.3 Restoration and Rehabilitation Opportunities**

No restoration or rehabilitation opportunities were identified in this inventory.

## **4.6 Fish Bearing Status**

Determining whether or not fish use occurs in a specific reach is a complex process, involving applying fish sampling results and professional interpretation of habitat quality and the ability of the reach to support fish at any time of year on a site-specific basis. Specifically, in order to apply non fish-bearing status when fish are not captured during a single sampling event, adequate rationale to support a conclusion of fish absence is required. Professional biological evaluation considers known fish distributions and behavior within the study area, the presence of barriers, gradients, invertebrate productivity, habitat quality, and presence/absence of headwater lakes or wetland complexes.

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 fluvial 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 the quality or 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 conditions, 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, professional judgment is required to recognize potential fish habitat, bearing in mind how the different flow regimes may affect the availability of this habitat. Moreover, the presence of accessible, potential overwintering or perennial habitat in the watershed (i.e. lakes, wetlands, pools >0.5 m deep) must be taken into account as it may influence the fish-bearing status of a specific reach.

Once presence or absence 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/or lack of connectivity within a watershed may limit fish distribution and must be evaluated. When questionable obstructions or soft barriers (i.e., beaver dams, wetlands) are present, the process for determining the presence of fish habitat upstream must be undertaken and combined with adequate sampling effort 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 provides an overview of the variables evaluated before fish-bearing status can be accurately ascertained. This process is always supplemented by existing fisheries information and interpretations from map and air photo analysis.

Table 12 provides a summary of all surveyed reaches within the Babine L. Face Units. It includes relevant site-specific data, historical information and comments which provide a brief rationale to support the interpretation for the riparian class designation.

Once a non-fish bearing conclusion has been established for a sampled reach, all reaches located upstream of that location are considered to be non fish-bearing by default and no further sampling is required to confirm this conclusion. This is inherent in the process used to determine the non fish-bearing status.

An overview of the process used to determine fish-bearing status is presented in the flowchart in Figure 7 on the following page.

## Stream Classification Process

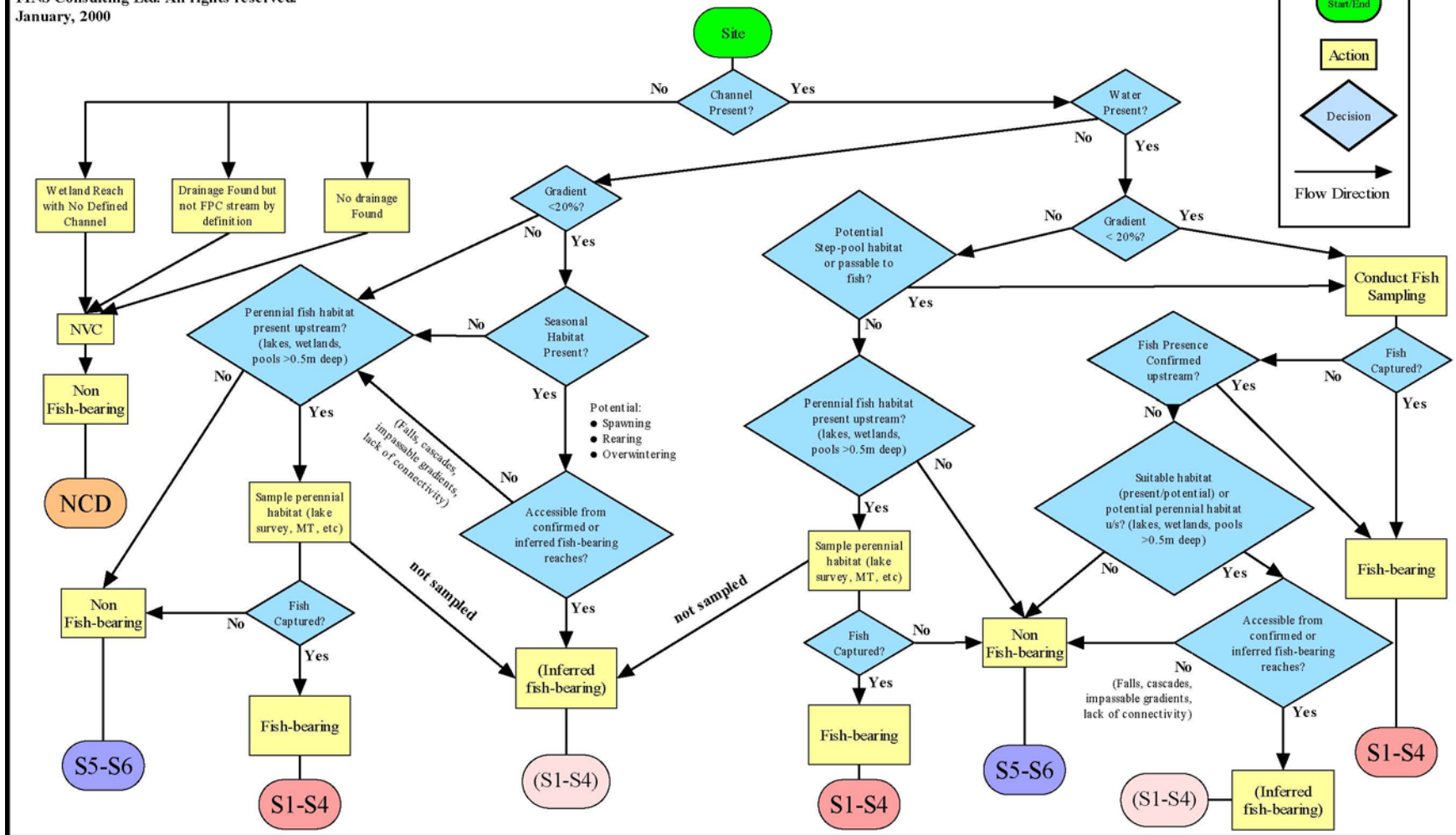
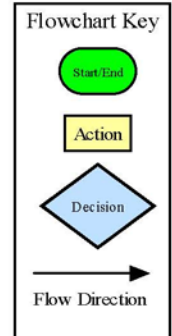


Figure 7: Flowchart of the stream classification process used in determining fish-bearing status of surveyed reaches.

**Table 12. Summary of fish sampling data for follow-up reaches in the Babine L. Face Units, 1 July to 1 August, 2006.**

| Stream Name | Watershed Code/ILP           | Reach | Map No.  | Species  | Channel        |                   | Electrofishing Specifications |          |           |           | Other Methods |        | Proposed Riparian Class (inferred) | Comments                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
|-------------|------------------------------|-------|----------|----------|----------------|-------------------|-------------------------------|----------|-----------|-----------|---------------|--------|------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|             |                              |       |          |          | Site Width (m) | Site Gradient (%) | Dist (m)                      | Time (s) | Cond (µS) | Temp (°C) | Type          | Effort |                                    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| Unnamed     | 480-593400 / ILP 10018       | 1     | 093M.009 | CAS CO   | 2.7            | 2                 | 20                            | 24       | 110       | 7         |               |        | S3                                 | <b>Important CO stream.</b> Juvenile CO very abundant, hundreds observed. Important migratory CO route.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| Unnamed     | 480-595000 / ILP 10115       | 3.2   | 093M.009 | NFC (RB) | 4.5            | 7                 | 160                           | 236      | 50        | 8         | VO            | 18 min | (S3)                               | <b>Cascade at the end of reach marks u/s fish distribution limits.</b> Creek exhibits extreme flows during freshet and does not provide very good in-stream cover at high flows. Very likely RB is discouraged to migrate that far (~2km from FB reach) because of little protection, however lower cascade/canyon section contains several well protected pools, suitable for rearing and overwintering if accessed. RB can use this stream on very sporadic basis. Watershed upstream of the barrier was already sampled in the past in two locations with indication of perennial habitat presence and no fish capture despite solid efforts. Watershed u/s of cascade barrier is rendered non-fish bearing. |
| Unnamed     | 480-593400-74462 / ILP 10021 | 1     | 093M.009 | NS       | 1.4            | 4                 |                               |          |           |           |               |        | (S6)                               | <b>Stream requires resampling of reach 2</b> to determine if any isolated DV population is present. Reach 1 does not offer even seasonal fish habitat.<br><b>Watershed code is incorrectly assigned by MoE Office in Victoria.</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| Unnamed     | 480-579300 / ILP 10024       | 1     | 093M.009 | CAS CO   | 2.6            | 4                 | 250                           | 32       | 110       | 9         |               |        | S3                                 | Reach with good CO habitat within 90m only.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| Unnamed     | 480-579300 / ILP 10024       | 1     | 093M.009 | DV       | 3.5            | 15                | 700                           | 557      | 110       | 9         |               |        | S3                                 | Reach was sampled in order to find upper fish distribution limit and investigate reported steep gradient section 820 m from mouth (Site 21 - SKR11). Stream did not have gradients higher than 17% in ~ 1000m section checked. It is suspected that gradient for site 21 may also be inaccurate and reach 2 may be accessible to DV present in this reach and therefore fish use has been inferred. Reach 2 should be visited again to determine fish status.                                                                                                                                                                                                                                                   |
| Unnamed     | 480-569253 / ILP 10031       | 2     | 093M.009 | NS       | 0.9            | 15                |                               |          |           |           |               |        | S6                                 | <b>No fish habitat.</b> Small and steep stream, watered only during prolonged rain or spring runoff. No in-stream cover when watered dries out too quickly to provide seasonal fish habitat.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |

**Table 12. Summary of fish sampling data for follow-up reaches in the Babine L. Face Units, 1 July to 1 August, 2006.**

| Stream Name | Watershed Code/ILP                 | Reach | Map No.  | Species | Channel        |                   | Electrofishing Specifications |          |           |           | Other Methods |        | Proposed Riparian Class (inferred) | Comments                                                                                                                                                                                                                                                                                                                        |
|-------------|------------------------------------|-------|----------|---------|----------------|-------------------|-------------------------------|----------|-----------|-----------|---------------|--------|------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|             |                                    |       |          |         | Site Width (m) | Site Gradient (%) | Dist (m)                      | Time (s) | Cond (µS) | Temp (°C) | Type          | Effort |                                    |                                                                                                                                                                                                                                                                                                                                 |
| Unnamed     | 480-563000 / ILP 10032             | 1     | 093M.008 | NS      | *              | *                 |                               |          |           |           |               |        | NCD                                | <b>No fish habitat.</b> Swampy area with soggy ground; no scoured channel, or fluvium observed - not an FPC stream.                                                                                                                                                                                                             |
| Unnamed     | 480-561100 / ILP 10034             | 1     | 093M.008 | NS      | *              | 3                 |                               |          |           |           |               |        | NCD                                | <b>No fish habitat.</b> Seepage through small (3m high and 5m wide gully). No scoured channel or fluvium observed - not an FPC stream. Impassable to fish to upper reaches. Described channel measurements (6% gradient, 1.8 m channel width and continuous channel) for Site 24 (SKR11) are contradictory to current findings. |
| Unnamed     | 480-598500-34896 / ILP 10132       | 1     | 093M.019 | NS      | *              | *                 |                               |          |           |           |               |        | NCD                                | <b>No fish habitat.</b> Meltwater runoff; no scoured channel and fluvium - not an FPC stream.                                                                                                                                                                                                                                   |
| Unnamed     | 480-472833 / ILP 10182             | 1     | 093M.028 | CO      | 2.3            | 6                 | 2                             | 7        | 140       | 13        |               |        | S3                                 | Stream is a subject to severe dewatering problems.                                                                                                                                                                                                                                                                              |
| Unnamed     | 480-505600 / ILP 10222             | 1     | 093M.018 | CAS CO  | 1.6            | 4                 | 200                           | 147      | 50        | 11        | DN            | *      | S3                                 | Reach with good CO habitat.                                                                                                                                                                                                                                                                                                     |
| Unnamed     | 480-513700 / ILP 10227             | 2     | 093M.018 | NS      | 2.6            | 10                |                               |          |           |           |               |        | S6                                 | <b>No fish habitat.</b> Braided and fast flowing stream when watered. Highly movable substrate in stream bed, stream dries too quickly to support any seasonal use; no pools found.                                                                                                                                             |
| Unnamed     | 480-471159 / ILP 10271             | 1     | 093M.028 | NFC     | 1.1            | 5                 | 15                            | 22       | 70        | 12        | VO            | 1 min  | S6                                 | <b>No fish habitat.</b> Seasonal stream, unutilized by fish. Second sampling, dewatering near mouth limits fish access, no spawning or overwintering habitat.                                                                                                                                                                   |
| Unnamed     | 480-466800-12000-47139 / ILP 10274 | 1     | 093M.028 | NS      | 2.2            | 5                 |                               |          |           |           |               |        | S6                                 | <b>No fish habitat.</b> Seasonal stream with no instream cover when watered. Dries out within few weeks from spring runoff, Not suitable for seasonal use.                                                                                                                                                                      |

**Table 12. Summary of fish sampling data for follow-up reaches in the Babine L. Face Units, 1 July to 1 August, 2006.**

| Stream Name | Watershed Code/ILP                 | Reach | Map No.  | Species | Channel        |                   | Electrofishing Specifications |          |           |           | Other Methods |        | Proposed Riparian Class (inferred) | Comments                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
|-------------|------------------------------------|-------|----------|---------|----------------|-------------------|-------------------------------|----------|-----------|-----------|---------------|--------|------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|             |                                    |       |          |         | Site Width (m) | Site Gradient (%) | Dist (m)                      | Time (s) | Cond (µS) | Temp (°C) | Type          | Effort |                                    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| Unnamed     | 480-466800-12000-47139 / ILP 10274 | 1     | 093M.028 | NFC     | 2.2            | 9                 | 100                           | 59       | 110       | 12        | VO            | 1 min  | S6                                 | <b>No fish habitat.</b> Stream with high debris transport capabilities when watered. No fish in few pools within 100m from mouth, abundant invertebrates observed, and very abundant RB in parent stream. Manning formula [4] indicates 3.5m/s water velocity at bankfull depth within initial 10-12% and 50m long section of stream and which is passable only to adult RB according to Parker [30]. Stream dries out within few weeks from spring runoff. Stream visited in the past also with NFC. |
| Unnamed     | 480-463533 / ILP 10283             | 1     | 093M.028 | NS      | *              | 3                 |                               |          |           |           |               |        | NCD                                | <b>No fish habitat.</b> Drainage channelized only for 30m from Babine L.; beyond meltwater runoff with occasionally washed out duff layer and no scoured channel or continuous fluvial deposits. Described site data (14% gradient, 0.4 m channel width, continuous channel) for Site 13 (SKR17) are contradictory to current findings.                                                                                                                                                               |
| Unnamed     | 480-460300 / ILP 10347             | 1.1   | 093M.028 | RB      | 2.7            | 10                | 2                             | 28       | 80        | 11        |               |        | S3                                 | <b>Cascade at the end of reach marks u/s fish distribution limits.</b> Watershed upstream of the barrier was extensively sampled in the past in many locations and no fish capture. Watershed u/s of cascade barrier is rendered non-fish bearing.                                                                                                                                                                                                                                                    |

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*FINS Consulting Ltd.*  
*Reconnaissance (1:20,000) Fish and Fish Habitat Inventory*  
*March 2007*

*HFP – Follow-up sampling*  
*in the Babine L. Face Units*

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.

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## **7. List of Appendices**

**Appendix I: FDIS Forms and Photographs**

**Appendix II: Project/Interpretative Maps**



*FINS Consulting Ltd.*  
*Reconnaissance (1:20,000) Fish and Fish Habitat Inventory*  
*March 2007*

*HFP – Follow-up sampling  
in the Babine L. Face Units*

## **Appendix I: FDIS Forms and Photographs**

# FDIS Site Card

## 2006 RFFHI Babine L. Tributaries - Re-sampling

Watershed Code: 480-593400-00000-00000-0000-0000-000-000-000-000-000

Reach # 1.0 ILP Map # 093M.009 ILP # 10018 Site 101

| PROJECT                                                                      |                                     |
|------------------------------------------------------------------------------|-------------------------------------|
| Project Name: Babine Lake Face Unit Re-sampling - 2006                       | Project Code: 06-BABL-00015953-2006 |
| Stream Name (gaz.): BABINE RIVER                                             |                                     |
| Project Watershed Code: 480-000000-00000-00000-0000-0000-000-000-000-000-000 |                                     |

| WATERSHED                                                            |                                                                                                                          |
|----------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------|
| Gazetted Name:                                                       | Local Name: Unnamed Creek                                                                                                |
| Watershed Code: 480-593400-00000-00000-0000-0000-000-000-000-000-000 |                                                                                                                          |
| ILP Map#: 093M.009                                                   | ILP #: 10018 NID Map #: 093M.009                                                                                         |
| NID #: 12                                                            | Reach #: 1.0 Site #: 101                                                                                                 |
| Field UTM (Z.E.N): 9.672620.6103603                                  | Method: GP3                                                                                                              |
| GIS UTM (Z.E.N): 9.672619.6103603                                    | Site Lg: 120 Method: GE Access: B                                                                                        |
| Ref. Name:                                                           |                                                                                                                          |
| Date: 2006/07/03                                                     | Time: 12:31 Agency: C016 Crew: MJ/JL Fish Crd?: <input checked="" type="checkbox"/> Incomplete: <input type="checkbox"/> |

| CHANNEL                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                                                                                                                                                                                                             |                                     |                                     |                                     |                                                                                                                         |                                     |                          |       |         |       |       |       |     |                    |   |      |             |                                     |                                     |                                     |                                     |                                     |                                     |                          |                                                                                                                                                                   |      |                   |   |      |      |      |      |      |      |  |  |  |  |      |                 |    |      |  |  |  |  |  |  |  |  |  |      |                                                                                                                                                                                                                                                                                                                       |  |           |     |     |           |     |     |    |            |     |  |    |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------|-------------------------------------|-------------------------------------|-------------------------------------------------------------------------------------------------------------------------|-------------------------------------|--------------------------|-------|---------|-------|-------|-------|-----|--------------------|---|------|-------------|-------------------------------------|-------------------------------------|-------------------------------------|-------------------------------------|-------------------------------------|-------------------------------------|--------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|-------------------|---|------|------|------|------|------|------|--|--|--|--|------|-----------------|----|------|--|--|--|--|--|--|--|--|--|------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|-----------|-----|-----|-----------|-----|-----|----|------------|-----|--|----|
| <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th></th> <th>Mtd</th> <th>width</th> <th>width</th> <th>width</th> <th>width</th> <th>width</th> <th>width</th> <th>width</th> <th>width</th> <th>width</th> <th>width</th> <th>Avg</th> </tr> </thead> <tbody> <tr> <td>Channel Width (m):</td> <td>T</td> <td>2.90</td> <td>2.70</td> <td>2.30</td> <td>2.60</td> <td>2.40</td> <td>3.10</td> <td></td> <td></td> <td></td> <td></td> <td>2.67</td> </tr> <tr> <td>Wetted Width (m):</td> <td>T</td> <td>1.30</td> <td>1.90</td> <td>2.00</td> <td>1.70</td> <td>1.30</td> <td>1.70</td> <td></td> <td></td> <td></td> <td></td> <td>1.65</td> </tr> <tr> <td>Pool Depth (m):</td> <td>MS</td> <td>0.13</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>0.13</td> </tr> </tbody> </table> |                                                                                                                                                                                                             | Mtd                                 | width                               | width                               | width                                                                                                                   | width                               | width                    | width | width   | width | width | width | Avg | Channel Width (m): | T | 2.90 | 2.70        | 2.30                                | 2.60                                | 2.40                                | 3.10                                |                                     |                                     |                          |                                                                                                                                                                   | 2.67 | Wetted Width (m): | T | 1.30 | 1.90 | 2.00 | 1.70 | 1.30 | 1.70 |  |  |  |  | 1.65 | Pool Depth (m): | MS | 0.13 |  |  |  |  |  |  |  |  |  | 0.13 | <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th></th> <th>Gadient %</th> <th>Mtd</th> <th>Avg</th> </tr> </thead> <tbody> <tr> <td>Method I:</td> <td>2.0</td> <td>3.0</td> <td>AL</td> </tr> <tr> <td>Method II:</td> <td>2.0</td> <td></td> <td>AL</td> </tr> </tbody> </table> |  | Gadient % | Mtd | Avg | Method I: | 2.0 | 3.0 | AL | Method II: | 2.0 |  | AL |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | Mtd                                                                                                                                                                                                         | width                               | width                               | width                               | width                                                                                                                   | width                               | width                    | width | width   | width | width | Avg   |     |                    |   |      |             |                                     |                                     |                                     |                                     |                                     |                                     |                          |                                                                                                                                                                   |      |                   |   |      |      |      |      |      |      |  |  |  |  |      |                 |    |      |  |  |  |  |  |  |  |  |  |      |                                                                                                                                                                                                                                                                                                                       |  |           |     |     |           |     |     |    |            |     |  |    |
| Channel Width (m):                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | T                                                                                                                                                                                                           | 2.90                                | 2.70                                | 2.30                                | 2.60                                                                                                                    | 2.40                                | 3.10                     |       |         |       |       | 2.67  |     |                    |   |      |             |                                     |                                     |                                     |                                     |                                     |                                     |                          |                                                                                                                                                                   |      |                   |   |      |      |      |      |      |      |  |  |  |  |      |                 |    |      |  |  |  |  |  |  |  |  |  |      |                                                                                                                                                                                                                                                                                                                       |  |           |     |     |           |     |     |    |            |     |  |    |
| Wetted Width (m):                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | T                                                                                                                                                                                                           | 1.30                                | 1.90                                | 2.00                                | 1.70                                                                                                                    | 1.30                                | 1.70                     |       |         |       |       | 1.65  |     |                    |   |      |             |                                     |                                     |                                     |                                     |                                     |                                     |                          |                                                                                                                                                                   |      |                   |   |      |      |      |      |      |      |  |  |  |  |      |                 |    |      |  |  |  |  |  |  |  |  |  |      |                                                                                                                                                                                                                                                                                                                       |  |           |     |     |           |     |     |    |            |     |  |    |
| Pool Depth (m):                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | MS                                                                                                                                                                                                          | 0.13                                |                                     |                                     |                                                                                                                         |                                     |                          |       |         |       |       | 0.13  |     |                    |   |      |             |                                     |                                     |                                     |                                     |                                     |                                     |                          |                                                                                                                                                                   |      |                   |   |      |      |      |      |      |      |  |  |  |  |      |                 |    |      |  |  |  |  |  |  |  |  |  |      |                                                                                                                                                                                                                                                                                                                       |  |           |     |     |           |     |     |    |            |     |  |    |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | Gadient %                                                                                                                                                                                                   | Mtd                                 | Avg                                 |                                     |                                                                                                                         |                                     |                          |       |         |       |       |       |     |                    |   |      |             |                                     |                                     |                                     |                                     |                                     |                                     |                          |                                                                                                                                                                   |      |                   |   |      |      |      |      |      |      |  |  |  |  |      |                 |    |      |  |  |  |  |  |  |  |  |  |      |                                                                                                                                                                                                                                                                                                                       |  |           |     |     |           |     |     |    |            |     |  |    |
| Method I:                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | 2.0                                                                                                                                                                                                         | 3.0                                 | AL                                  |                                     |                                                                                                                         |                                     |                          |       |         |       |       |       |     |                    |   |      |             |                                     |                                     |                                     |                                     |                                     |                                     |                          |                                                                                                                                                                   |      |                   |   |      |      |      |      |      |      |  |  |  |  |      |                 |    |      |  |  |  |  |  |  |  |  |  |      |                                                                                                                                                                                                                                                                                                                       |  |           |     |     |           |     |     |    |            |     |  |    |
| Method II:                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 2.0                                                                                                                                                                                                         |                                     | AL                                  |                                     |                                                                                                                         |                                     |                          |       |         |       |       |       |     |                    |   |      |             |                                     |                                     |                                     |                                     |                                     |                                     |                          |                                                                                                                                                                   |      |                   |   |      |      |      |      |      |      |  |  |  |  |      |                 |    |      |  |  |  |  |  |  |  |  |  |      |                                                                                                                                                                                                                                                                                                                       |  |           |     |     |           |     |     |    |            |     |  |    |
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| Wb Depth:                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | .4                                                                                                                                                                                                          | .4                                  | .4                                  |                                     |                                                                                                                         |                                     |                          |       |         |       |       |       |     |                    |   |      |             |                                     |                                     |                                     |                                     |                                     |                                     |                          |                                                                                                                                                                   |      |                   |   |      |      |      |      |      |      |  |  |  |  |      |                 |    |      |  |  |  |  |  |  |  |  |  |      |                                                                                                                                                                                                                                                                                                                       |  |           |     |     |           |     |     |    |            |     |  |    |
| COVER                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | Total: A                                                                                                                                                                                                    |                                     |                                     |                                     |                                                                                                                         |                                     |                          |       |         |       |       |       |     |                    |   |      |             |                                     |                                     |                                     |                                     |                                     |                                     |                          |                                                                                                                                                                   |      |                   |   |      |      |      |      |      |      |  |  |  |  |      |                 |    |      |  |  |  |  |  |  |  |  |  |      |                                                                                                                                                                                                                                                                                                                       |  |           |     |     |           |     |     |    |            |     |  |    |
| <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th>Type:</th> <th>SWD</th> <th>LWD</th> <th>B</th> <th>U</th> <th>DP</th> <th>OV</th> <th>IV</th> </tr> </thead> <tbody> <tr> <td>Amount:</td> <td>T</td> <td>T</td> <td>D</td> <td>S</td> <td>T</td> <td>S</td> <td>N</td> </tr> <tr> <td>Loc: P/S/O:</td> <td><input checked="" type="checkbox"/></td> <td><input checked="" type="checkbox"/></td> <td><input checked="" type="checkbox"/></td> <td><input checked="" type="checkbox"/></td> <td><input checked="" type="checkbox"/></td> <td><input checked="" type="checkbox"/></td> <td><input type="checkbox"/></td> </tr> </tbody> </table>                                                                                                                                                                                            | Type:                                                                                                                                                                                                       | SWD                                 | LWD                                 | B                                   | U                                                                                                                       | DP                                  | OV                       | IV    | Amount: | T     | T     | D     | S   | T                  | S | N    | Loc: P/S/O: | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | CROWN CLOSURE<br>2 21-40%<br>INSTREAM VEG: N <input type="checkbox"/> A <input type="checkbox"/> M <input checked="" type="checkbox"/> V <input type="checkbox"/> |      |                   |   |      |      |      |      |      |      |  |  |  |  |      |                 |    |      |  |  |  |  |  |  |  |  |  |      |                                                                                                                                                                                                                                                                                                                       |  |           |     |     |           |     |     |    |            |     |  |    |
| Type:                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | SWD                                                                                                                                                                                                         | LWD                                 | B                                   | U                                   | DP                                                                                                                      | OV                                  | IV                       |       |         |       |       |       |     |                    |   |      |             |                                     |                                     |                                     |                                     |                                     |                                     |                          |                                                                                                                                                                   |      |                   |   |      |      |      |      |      |      |  |  |  |  |      |                 |    |      |  |  |  |  |  |  |  |  |  |      |                                                                                                                                                                                                                                                                                                                       |  |           |     |     |           |     |     |    |            |     |  |    |
| Amount:                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | T                                                                                                                                                                                                           | T                                   | D                                   | S                                   | T                                                                                                                       | S                                   | N                        |       |         |       |       |       |     |                    |   |      |             |                                     |                                     |                                     |                                     |                                     |                                     |                          |                                                                                                                                                                   |      |                   |   |      |      |      |      |      |      |  |  |  |  |      |                 |    |      |  |  |  |  |  |  |  |  |  |      |                                                                                                                                                                                                                                                                                                                       |  |           |     |     |           |     |     |    |            |     |  |    |
| Loc: P/S/O:                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | <input checked="" type="checkbox"/>                                                                                                                                                                         | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/>                                                                                     | <input checked="" type="checkbox"/> | <input type="checkbox"/> |       |         |       |       |       |     |                    |   |      |             |                                     |                                     |                                     |                                     |                                     |                                     |                          |                                                                                                                                                                   |      |                   |   |      |      |      |      |      |      |  |  |  |  |      |                 |    |      |  |  |  |  |  |  |  |  |  |      |                                                                                                                                                                                                                                                                                                                       |  |           |     |     |           |     |     |    |            |     |  |    |
| LWD: F                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | DIST: E                                                                                                                                                                                                     |                                     |                                     |                                     |                                                                                                                         |                                     |                          |       |         |       |       |       |     |                    |   |      |             |                                     |                                     |                                     |                                     |                                     |                                     |                          |                                                                                                                                                                   |      |                   |   |      |      |      |      |      |      |  |  |  |  |      |                 |    |      |  |  |  |  |  |  |  |  |  |      |                                                                                                                                                                                                                                                                                                                       |  |           |     |     |           |     |     |    |            |     |  |    |
| LB SHP: V                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | RB SHP: V                                                                                                                                                                                                   |                                     |                                     |                                     |                                                                                                                         |                                     |                          |       |         |       |       |       |     |                    |   |      |             |                                     |                                     |                                     |                                     |                                     |                                     |                          |                                                                                                                                                                   |      |                   |   |      |      |      |      |      |      |  |  |  |  |      |                 |    |      |  |  |  |  |  |  |  |  |  |      |                                                                                                                                                                                                                                                                                                                       |  |           |     |     |           |     |     |    |            |     |  |    |
| Texture: F <input checked="" type="checkbox"/> G <input type="checkbox"/> C <input checked="" type="checkbox"/> B <input checked="" type="checkbox"/> R <input type="checkbox"/> A <input type="checkbox"/>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | Texture: F <input checked="" type="checkbox"/> G <input type="checkbox"/> C <input checked="" type="checkbox"/> B <input checked="" type="checkbox"/> R <input type="checkbox"/> A <input type="checkbox"/> |                                     |                                     |                                     |                                                                                                                         |                                     |                          |       |         |       |       |       |     |                    |   |      |             |                                     |                                     |                                     |                                     |                                     |                                     |                          |                                                                                                                                                                   |      |                   |   |      |      |      |      |      |      |  |  |  |  |      |                 |    |      |  |  |  |  |  |  |  |  |  |      |                                                                                                                                                                                                                                                                                                                       |  |           |     |     |           |     |     |    |            |     |  |    |
| RIP: S                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | RIP: S                                                                                                                                                                                                      |                                     |                                     |                                     |                                                                                                                         |                                     |                          |       |         |       |       |       |     |                    |   |      |             |                                     |                                     |                                     |                                     |                                     |                                     |                          |                                                                                                                                                                   |      |                   |   |      |      |      |      |      |      |  |  |  |  |      |                 |    |      |  |  |  |  |  |  |  |  |  |      |                                                                                                                                                                                                                                                                                                                       |  |           |     |     |           |     |     |    |            |     |  |    |
| STG: NA                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | STG: NA                                                                                                                                                                                                     |                                     |                                     |                                     |                                                                                                                         |                                     |                          |       |         |       |       |       |     |                    |   |      |             |                                     |                                     |                                     |                                     |                                     |                                     |                          |                                                                                                                                                                   |      |                   |   |      |      |      |      |      |      |  |  |  |  |      |                 |    |      |  |  |  |  |  |  |  |  |  |      |                                                                                                                                                                                                                                                                                                                       |  |           |     |     |           |     |     |    |            |     |  |    |

| WATER             |                                                                                                                               |
|-------------------|-------------------------------------------------------------------------------------------------------------------------------|
| EMS:              | Req #:                                                                                                                        |
| Temp: 13          | Cond.: 110                                                                                                                    |
| pH: 7.0           | Method: S4                                                                                                                    |
| Flood Signs: none | Method: GE                                                                                                                    |
| Method: T3        | Turb.: T <input type="checkbox"/> M <input type="checkbox"/> L <input type="checkbox"/> C <input checked="" type="checkbox"/> |
| Method: P4        |                                                                                                                               |
| Method: GE        |                                                                                                                               |

| MORPHOLOGY                                                                                                                                                               |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                          |                          |                          |                          |                          |                          |                          |                          |                          |                          |                                     |                          |                          |                          |                          |                          |                          |                          |                          |                          |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|-------------------------------------|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|
| Bed Material: Dominant: C Subdom: G<br>D95: 15.0 D (cm): 3.00 Morph: RP<br>Pattern: SI<br>Islands: N<br>Coupling: PC<br>Confinement: OC<br>FSZ: <input type="checkbox"/> | <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th>O1</th> <th>B1</th> <th>B2</th> <th>B3</th> <th>D1</th> <th>D2</th> <th>D3</th> </tr> </thead> <tbody> <tr> <td><input type="checkbox"/></td> <td><input type="checkbox"/></td> <td><input type="checkbox"/></td> <td><input type="checkbox"/></td> <td><input type="checkbox"/></td> <td><input type="checkbox"/></td> <td><input type="checkbox"/></td> </tr> </tbody> </table>                                                                                                                                                      | O1                       | B1                       | B2                       | B3                       | D1                       | D2                       | D3                       | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/>            | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |                          |                          |                          |                          |                          |                          |
| O1                                                                                                                                                                       | B1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | B2                       | B3                       | D1                       | D2                       | D3                       |                          |                          |                          |                          |                          |                                     |                          |                          |                          |                          |                          |                          |                          |                          |                          |
| <input type="checkbox"/>                                                                                                                                                 | <input type="checkbox"/>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |                          |                          |                          |                          |                          |                                     |                          |                          |                          |                          |                          |                          |                          |                          |                          |
| DISTURBANCE INDICATORS                                                                                                                                                   | <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th>C1</th> <th>C2</th> <th>C3</th> <th>C4</th> <th>C5</th> <th>S1</th> <th>S2</th> <th>S3</th> <th>S4</th> <th>S5</th> </tr> </thead> <tbody> <tr> <td><input checked="" type="checkbox"/></td> <td><input type="checkbox"/></td> <td><input type="checkbox"/></td> <td><input type="checkbox"/></td> <td><input type="checkbox"/></td> <td><input type="checkbox"/></td> <td><input type="checkbox"/></td> <td><input type="checkbox"/></td> <td><input type="checkbox"/></td> <td><input type="checkbox"/></td> </tr> </tbody> </table> | C1                       | C2                       | C3                       | C4                       | C5                       | S1                       | S2                       | S3                       | S4                       | S5                       | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| C1                                                                                                                                                                       | C2                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | C3                       | C4                       | C5                       | S1                       | S2                       | S3                       | S4                       | S5                       |                          |                          |                                     |                          |                          |                          |                          |                          |                          |                          |                          |                          |
| <input checked="" type="checkbox"/>                                                                                                                                      | <input type="checkbox"/>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |                          |                          |                                     |                          |                          |                          |                          |                          |                          |                          |                          |                          |
| Bars:                                                                                                                                                                    | N <input checked="" type="checkbox"/> SIDE <input type="checkbox"/> DIAG <input type="checkbox"/> MID <input type="checkbox"/> SPAN <input type="checkbox"/> BR <input type="checkbox"/>                                                                                                                                                                                                                                                                                                                                                                                                                                   |                          |                          |                          |                          |                          |                          |                          |                          |                          |                          |                                     |                          |                          |                          |                          |                          |                          |                          |                          |                          |

| HABITAT QUALITY    |                                                                                                                          |
|--------------------|--------------------------------------------------------------------------------------------------------------------------|
| Name               | Comments                                                                                                                 |
| Spawning Habitat   | None-substrate too large and angular.                                                                                    |
| Rearing Habitat    | Good-good among cobble cover, small pools, SWD & cutbanks.                                                               |
| Other              | Stream used as migratory route to & from spawning areas, which were not located.                                         |
| OverWinter Habitat | None-observed CO in process of migrating to ocean (!) - exhibit signs of smolting, large congregations of CO near mouth. |

| PHOTOS |        |     |          |
|--------|--------|-----|----------|
| Photo  | Foc Lg | Dir | Comments |

# FDIS Site Card

## 2006 RFFHI Babine L. Tributaries - Re-sampling

Watershed Code: 480-593400-00000-00000-0000-0000-000-000-000-000-000

|         |           |       |      |
|---------|-----------|-------|------|
| Reach # | ILP Map # | ILP # | Site |
| 1.0     | 093M.009  | 10018 | 101  |

| P H O T O S     |            |                           |     |                  |
|-----------------|------------|---------------------------|-----|------------------|
| Photo           |            | Foc Lg                    | Dir | Comments         |
| R:              | DIG F: 872 | STD                       | U   | probe for scale  |
| R:              | DIG F: 873 | STD                       | D   | person for scale |
| C O M M E N T S |            |                           |     |                  |
| Section         |            | Comments                  |     |                  |
| SITE CARD       |            | S3                        |     |                  |
| SITE CARD       |            | Important CO stream.      |     |                  |
| COVER           |            | cobbles as boulder cover. |     |                  |



## 2006 RFFHI Babine L. Tributaries - Re-sampling

Watershed Code: 480-593400-00000-00000-0000-0000-000-000-000-000-000-000

| Reach # | ILP Map # | ILP # |
|---------|-----------|-------|
| 1.0     | 093M.009  | 10018 |

## WATERBODY

|                                                             |                     |                      |       |                 |     |
|-------------------------------------------------------------|---------------------|----------------------|-------|-----------------|-----|
| Gazetted Name:                                              |                     | Local: Unnamed Creek |       |                 |     |
| Project Code: 480-000000-00000-00000-0000-000-000-000-000-0 |                     |                      |       |                 |     |
| WS Code: 480-593400-00000-00000-0000-000-000-000-000-000    |                     |                      |       |                 |     |
| Waterbody ID:                                               | ILP Map #: 093M.009 | ILP #:               | 10018 | Reach #:        | 1 - |
| Project ID: 06-BABL-00015953-2006                           |                     | Lake/Stream:         | S     | Lake From Date: |     |

Fish Permit #: SM06-24176      Date: 2006/07/03      To: 2006/07/03      Agency: C016      Crew: MJ/JL      Resample: ☐

## SITE / METHOD

| Site# | NID Map  | NID # | UTM:Zone/East/North/Mthd |        |         |     | MTD/NO |   | Temp | Cond | Turbid | Comment |
|-------|----------|-------|--------------------------|--------|---------|-----|--------|---|------|------|--------|---------|
| 101   | 093M.009 | 12    | 9                        | 672620 | 6103603 | GP3 | EF     | 1 | 7    | 110  | C      |         |

### A. GEAR SETTINGS

| Site# | MTD/NO |   | H/P | Date In    | Time In | Date Out   | Time Out | Comment |
|-------|--------|---|-----|------------|---------|------------|----------|---------|
| 101   | EF     | 1 | 1   | 2006/07/03 | 12:31   | 2006/07/03 | 12:50    |         |

### C. ELECTROFISHER SPECIFICATIONS

| Site# | MTD/NO |   | H/P | Encl | Sec | Length | Width | Voltage | Frequency | Pulse | Make       | Model |
|-------|--------|---|-----|------|-----|--------|-------|---------|-----------|-------|------------|-------|
| 101   | EF     | 1 | 1   | O    | 24  | 120.0  | 1.5   | 400     | 90        | 6     | SMITH-ROOT | 12 B  |

## FISH SUMMARY

| Site# | MTD/NO |   | H/P | Species | Stage | Age | Total # | Lgth (Min/Max) |    | FishAct | Comment       |
|-------|--------|---|-----|---------|-------|-----|---------|----------------|----|---------|---------------|
| 101   | EF     | 1 | 1   | CAS     | J     |     | 2       | 48             | 97 | R       |               |
| 101   | EF     | 1 | 1   | CO      | J     |     | 10      | 48             | 57 | R       | very abundant |

## INDIVIDUAL FISH DATA

[illegible]

FDIS Reach Card

2006 RFFHI Babine L. Tributaries - Re-sampling

|                                                                          |  |                |                       |                |
|--------------------------------------------------------------------------|--|----------------|-----------------------|----------------|
| Watershed Code: 480-593400-00000-00000-0000-0000-000-000-000-000-000-000 |  | Reach #<br>1.0 | ILP Map #<br>093M.009 | ILP #<br>10018 |
|--------------------------------------------------------------------------|--|----------------|-----------------------|----------------|

|                                                                                  |  |                                     |  |  |
|----------------------------------------------------------------------------------|--|-------------------------------------|--|--|
| PROJECT                                                                          |  |                                     |  |  |
| Project Name: Babine Lake Face Unit Re-sampling - 2006                           |  |                                     |  |  |
| Stream Name (gaz.): BABINE RIVER                                                 |  | Project Code: 06-BABL-00015953-2006 |  |  |
| Project Watershed Code: 480-000000-00000-00000-0000-0000-000-000-000-000-000-000 |  |                                     |  |  |

|                                                                                |                      |                                                  |                             |              |
|--------------------------------------------------------------------------------|----------------------|--------------------------------------------------|-----------------------------|--------------|
| WATERSHED                                                                      |                      |                                                  |                             |              |
| Reach Watershed Code: 480-593400-00000-00000-0000-0000-000-000-000-000-000-000 |                      |                                                  |                             |              |
| ILP Map #: 093M.009                                                            | ILP #: 10018         | Reach #: 1.0                                     | NID Map #: 093M.009         | NID #: 20163 |
| Air Photos                                                                     | Names                |                                                  | UTM(Zone/East/North/Method) |              |
| LINE:                                                                          | Gaz.:                | 9.672359.6103920   GIS                           |                             |              |
| #:                                                                             | Local: Unnamed Creek | Sample Type: B Wetland: <input type="checkbox"/> |                             |              |

|                  |  |              |             |  |
|------------------|--|--------------|-------------|--|
| SURVEY INFO      |  |              |             |  |
| Date: 2006/06/20 |  | Agency: C016 | Crew: MJ/JL |  |

|                                                     |                |                                                                                                                                                                                                |                                                                                                                                                                                                     |                          |                          |                          |                          |                          |                          |                          |                          |                          |  |  |
|-----------------------------------------------------|----------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|--|--|
| ATTRIBUTES                                          |                |                                                                                                                                                                                                |                                                                                                                                                                                                     |                          |                          |                          |                          |                          |                          |                          |                          |                          |  |  |
| Length (km): .52                                    | Gradient: 1.73 | Setting: VF                                                                                                                                                                                    | DISTURBANCE INDICATORS                                                                                                                                                                              |                          |                          |                          |                          |                          |                          |                          |                          |                          |  |  |
| DS Elev.: 722                                       | Order: 2       | Open water: A                                                                                                                                                                                  | <input type="checkbox"/> O1 <input type="checkbox"/> B1 <input type="checkbox"/> B2 <input type="checkbox"/> B3 <input type="checkbox"/> D1 <input type="checkbox"/> D2 <input type="checkbox"/> D3 |                          |                          |                          |                          |                          |                          |                          |                          |                          |  |  |
| US Elev: 731                                        | Magnitude: 3   | Confinement: OC                                                                                                                                                                                | C1                                                                                                                                                                                                  | C2                       | C3                       | C4                       | C5                       | S1                       | S2                       | S3                       | S4                       | S5                       |  |  |
|                                                     | BGC Zone: SBS  | Coupling: DC                                                                                                                                                                                   | <input type="checkbox"/>                                                                                                                                                                            | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |  |  |
| Valley Flat: B                                      | C/D: C         | Islands: N                                                                                                                                                                                     |                                                                                                                                                                                                     |                          |                          |                          |                          |                          |                          |                          |                          |                          |  |  |
| Active Floodplain Visible: <input type="checkbox"/> | Est. Width:    | Bars: <input checked="" type="checkbox"/> N <input type="checkbox"/> SIDE <input type="checkbox"/> DIAG <input type="checkbox"/> MID <input type="checkbox"/> SPAN <input type="checkbox"/> BR |                                                                                                                                                                                                     |                          |                          |                          |                          |                          |                          |                          |                          |                          |  |  |
| Channel Pattern: SI                                 |                | Mass Movement: L                                                                                                                                                                               | Exposed/Eroded: N                                                                                                                                                                                   |                          |                          |                          |                          |                          |                          |                          |                          |                          |  |  |
|                                                     |                | Riparian Veg.: S                                                                                                                                                                               | Landuse: NO                                                                                                                                                                                         |                          |                          |                          |                          |                          |                          |                          |                          |                          |  |  |

|          |          |      |
|----------|----------|------|
| MAPS     |          |      |
| Map Type | Map #    | Year |
| TRIM     | 093M.009 | 2006 |



# FDIS Site Card

## 2006 RFFHI Babine L. Tributaries - Re-sampling

Watershed Code: 480-595000-00000-00000-0000-000-000-000-000-000-000

Reach # 3.2 ILP Map # 093M.009 ILP # 10115 Site 102

| PROJECT                                                                     |                                     |
|-----------------------------------------------------------------------------|-------------------------------------|
| Project Name: Babine Lake Face Unit Re-sampling - 2006                      | Project Code: 06-BABL-00015953-2006 |
| Stream Name (gaz.): BABINE RIVER                                            |                                     |
| Project Watershed Code: 480-000000-00000-00000-0000-000-000-000-000-000-000 |                                     |

| WATERSHED                                                           |                                                                                                                          |
|---------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------|
| Gazetted Name:                                                      | Local Name: Unnamed Creek                                                                                                |
| Watershed Code: 480-595000-00000-00000-0000-000-000-000-000-000-000 |                                                                                                                          |
| ILP Map #: 093M.009                                                 | ILP #: 10115 NID Map #: 093M.009                                                                                         |
| NID #: 13                                                           | Reach #: 3.2 Site #: 102                                                                                                 |
| Field UTM (Z.E.N): ..                                               | Method: HC Access: FT                                                                                                    |
| GIS UTM (Z.E.N): 9.670602.6107498                                   | Ref. Name:                                                                                                               |
| Date: 2006/07/31                                                    | Time: 13:00 Agency: C016 Crew: MJ/JL Fish Crd?: <input checked="" type="checkbox"/> Incomplete: <input type="checkbox"/> |

| CHANNEL                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                                     |                                                                                                                                                                                                                                     |                                     |                                     |                                     |                                     |                          |       |                                                                                                               |         |       |       |     |                    |   |      |      |             |                                     |                                     |                                     |                                     |                                     |                                     |                          |                                                                                                                                                                |                   |   |      |      |      |      |      |      |  |  |  |  |      |                 |    |      |      |      |      |      |      |  |  |  |  |      |                                                                                                                                                                                                                                                                                                                        |  |           |     |     |           |      |     |    |            |     |  |    |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------|-------------------------------------|-------------------------------------|-------------------------------------|--------------------------|-------|---------------------------------------------------------------------------------------------------------------|---------|-------|-------|-----|--------------------|---|------|------|-------------|-------------------------------------|-------------------------------------|-------------------------------------|-------------------------------------|-------------------------------------|-------------------------------------|--------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------|---|------|------|------|------|------|------|--|--|--|--|------|-----------------|----|------|------|------|------|------|------|--|--|--|--|------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|-----------|-----|-----|-----------|------|-----|----|------------|-----|--|----|
| <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th></th> <th>Mtd</th> <th>width</th> <th>width</th> <th>width</th> <th>width</th> <th>width</th> <th>width</th> <th>width</th> <th>width</th> <th>width</th> <th>width</th> <th>Avg</th> </tr> </thead> <tbody> <tr> <td>Channel Width (m):</td> <td>T</td> <td>7.00</td> <td>3.90</td> <td>4.80</td> <td>4.40</td> <td>3.70</td> <td>3.10</td> <td></td> <td></td> <td></td> <td></td> <td>4.48</td> </tr> <tr> <td>Wetted Width (m):</td> <td>T</td> <td>4.60</td> <td>3.10</td> <td>3.40</td> <td>1.70</td> <td>3.00</td> <td>2.10</td> <td></td> <td></td> <td></td> <td></td> <td>2.98</td> </tr> <tr> <td>Pool Depth (m):</td> <td>MS</td> <td>0.48</td> <td>0.26</td> <td>0.27</td> <td>0.49</td> <td>0.32</td> <td>0.38</td> <td></td> <td></td> <td></td> <td></td> <td>0.37</td> </tr> </tbody> </table> |                                     | Mtd                                                                                                                                                                                                                                 | width                               | width                               | width                               | width                               | width                    | width | width                                                                                                         | width   | width | width | Avg | Channel Width (m): | T | 7.00 | 3.90 | 4.80        | 4.40                                | 3.70                                | 3.10                                |                                     |                                     |                                     |                          | 4.48                                                                                                                                                           | Wetted Width (m): | T | 4.60 | 3.10 | 3.40 | 1.70 | 3.00 | 2.10 |  |  |  |  | 2.98 | Pool Depth (m): | MS | 0.48 | 0.26 | 0.27 | 0.49 | 0.32 | 0.38 |  |  |  |  | 0.37 | <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th></th> <th>Gadient %</th> <th>Mtd</th> <th>Avg</th> </tr> </thead> <tbody> <tr> <td>Method I:</td> <td>10.0</td> <td>7.0</td> <td>AL</td> </tr> <tr> <td>Method II:</td> <td>5.0</td> <td></td> <td>AL</td> </tr> </tbody> </table> |  | Gadient % | Mtd | Avg | Method I: | 10.0 | 7.0 | AL | Method II: | 5.0 |  | AL |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | Mtd                                 | width                                                                                                                                                                                                                               | width                               | width                               | width                               | width                               | width                    | width | width                                                                                                         | width   | width | Avg   |     |                    |   |      |      |             |                                     |                                     |                                     |                                     |                                     |                                     |                          |                                                                                                                                                                |                   |   |      |      |      |      |      |      |  |  |  |  |      |                 |    |      |      |      |      |      |      |  |  |  |  |      |                                                                                                                                                                                                                                                                                                                        |  |           |     |     |           |      |     |    |            |     |  |    |
| Channel Width (m):                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | T                                   | 7.00                                                                                                                                                                                                                                | 3.90                                | 4.80                                | 4.40                                | 3.70                                | 3.10                     |       |                                                                                                               |         |       | 4.48  |     |                    |   |      |      |             |                                     |                                     |                                     |                                     |                                     |                                     |                          |                                                                                                                                                                |                   |   |      |      |      |      |      |      |  |  |  |  |      |                 |    |      |      |      |      |      |      |  |  |  |  |      |                                                                                                                                                                                                                                                                                                                        |  |           |     |     |           |      |     |    |            |     |  |    |
| Wetted Width (m):                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | T                                   | 4.60                                                                                                                                                                                                                                | 3.10                                | 3.40                                | 1.70                                | 3.00                                | 2.10                     |       |                                                                                                               |         |       | 2.98  |     |                    |   |      |      |             |                                     |                                     |                                     |                                     |                                     |                                     |                          |                                                                                                                                                                |                   |   |      |      |      |      |      |      |  |  |  |  |      |                 |    |      |      |      |      |      |      |  |  |  |  |      |                                                                                                                                                                                                                                                                                                                        |  |           |     |     |           |      |     |    |            |     |  |    |
| Pool Depth (m):                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | MS                                  | 0.48                                                                                                                                                                                                                                | 0.26                                | 0.27                                | 0.49                                | 0.32                                | 0.38                     |       |                                                                                                               |         |       | 0.37  |     |                    |   |      |      |             |                                     |                                     |                                     |                                     |                                     |                                     |                          |                                                                                                                                                                |                   |   |      |      |      |      |      |      |  |  |  |  |      |                 |    |      |      |      |      |      |      |  |  |  |  |      |                                                                                                                                                                                                                                                                                                                        |  |           |     |     |           |      |     |    |            |     |  |    |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | Gadient %                           | Mtd                                                                                                                                                                                                                                 | Avg                                 |                                     |                                     |                                     |                          |       |                                                                                                               |         |       |       |     |                    |   |      |      |             |                                     |                                     |                                     |                                     |                                     |                                     |                          |                                                                                                                                                                |                   |   |      |      |      |      |      |      |  |  |  |  |      |                 |    |      |      |      |      |      |      |  |  |  |  |      |                                                                                                                                                                                                                                                                                                                        |  |           |     |     |           |      |     |    |            |     |  |    |
| Method I:                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | 10.0                                | 7.0                                                                                                                                                                                                                                 | AL                                  |                                     |                                     |                                     |                          |       |                                                                                                               |         |       |       |     |                    |   |      |      |             |                                     |                                     |                                     |                                     |                                     |                                     |                          |                                                                                                                                                                |                   |   |      |      |      |      |      |      |  |  |  |  |      |                 |    |      |      |      |      |      |      |  |  |  |  |      |                                                                                                                                                                                                                                                                                                                        |  |           |     |     |           |      |     |    |            |     |  |    |
| Method II:                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | 5.0                                 |                                                                                                                                                                                                                                     | AL                                  |                                     |                                     |                                     |                          |       |                                                                                                               |         |       |       |     |                    |   |      |      |             |                                     |                                     |                                     |                                     |                                     |                                     |                          |                                                                                                                                                                |                   |   |      |      |      |      |      |      |  |  |  |  |      |                 |    |      |      |      |      |      |      |  |  |  |  |      |                                                                                                                                                                                                                                                                                                                        |  |           |     |     |           |      |     |    |            |     |  |    |
| <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th>Wb Depth:</th> <th>.6</th> <th>.6</th> <th>.8</th> </tr> </thead> <tbody> <tr> <td>Avg: 0.67</td> <td colspan="3"></td> </tr> </tbody> </table>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | Wb Depth:                           | .6                                                                                                                                                                                                                                  | .6                                  | .8                                  | Avg: 0.67                           |                                     |                          |       | Method: MS Stage: L <input checked="" type="checkbox"/> M <input type="checkbox"/> H <input type="checkbox"/> |         |       |       |     |                    |   |      |      |             |                                     |                                     |                                     |                                     |                                     |                                     |                          |                                                                                                                                                                |                   |   |      |      |      |      |      |      |  |  |  |  |      |                 |    |      |      |      |      |      |      |  |  |  |  |      |                                                                                                                                                                                                                                                                                                                        |  |           |     |     |           |      |     |    |            |     |  |    |
| Wb Depth:                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | .6                                  | .6                                                                                                                                                                                                                                  | .8                                  |                                     |                                     |                                     |                          |       |                                                                                                               |         |       |       |     |                    |   |      |      |             |                                     |                                     |                                     |                                     |                                     |                                     |                          |                                                                                                                                                                |                   |   |      |      |      |      |      |      |  |  |  |  |      |                 |    |      |      |      |      |      |      |  |  |  |  |      |                                                                                                                                                                                                                                                                                                                        |  |           |     |     |           |      |     |    |            |     |  |    |
| Avg: 0.67                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                                     |                                                                                                                                                                                                                                     |                                     |                                     |                                     |                                     |                          |       |                                                                                                               |         |       |       |     |                    |   |      |      |             |                                     |                                     |                                     |                                     |                                     |                                     |                          |                                                                                                                                                                |                   |   |      |      |      |      |      |      |  |  |  |  |      |                 |    |      |      |      |      |      |      |  |  |  |  |      |                                                                                                                                                                                                                                                                                                                        |  |           |     |     |           |      |     |    |            |     |  |    |
| COVER Total: M <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th>Type:</th> <th>SWD</th> <th>LWD</th> <th>B</th> <th>U</th> <th>DP</th> <th>OV</th> <th>IV</th> </tr> </thead> <tbody> <tr> <td>Amount:</td> <td>T</td> <td>T</td> <td>T</td> <td>T</td> <td>D</td> <td>S</td> <td>N</td> </tr> <tr> <td>Loc: P/S/O:</td> <td><input checked="" type="checkbox"/></td> <td><input checked="" type="checkbox"/></td> <td><input checked="" type="checkbox"/></td> <td><input checked="" type="checkbox"/></td> <td><input checked="" type="checkbox"/></td> <td><input checked="" type="checkbox"/></td> <td><input type="checkbox"/></td> </tr> </tbody> </table>                                                                                                                                                                                                 |                                     | Type:                                                                                                                                                                                                                               | SWD                                 | LWD                                 | B                                   | U                                   | DP                       | OV    | IV                                                                                                            | Amount: | T     | T     | T   | T                  | D | S    | N    | Loc: P/S/O: | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | CROWN CLOSURE 2 21-40%<br>INSTREAM VEG: N <input checked="" type="checkbox"/> A <input type="checkbox"/> M <input type="checkbox"/> V <input type="checkbox"/> |                   |   |      |      |      |      |      |      |  |  |  |  |      |                 |    |      |      |      |      |      |      |  |  |  |  |      |                                                                                                                                                                                                                                                                                                                        |  |           |     |     |           |      |     |    |            |     |  |    |
| Type:                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | SWD                                 | LWD                                                                                                                                                                                                                                 | B                                   | U                                   | DP                                  | OV                                  | IV                       |       |                                                                                                               |         |       |       |     |                    |   |      |      |             |                                     |                                     |                                     |                                     |                                     |                                     |                          |                                                                                                                                                                |                   |   |      |      |      |      |      |      |  |  |  |  |      |                 |    |      |      |      |      |      |      |  |  |  |  |      |                                                                                                                                                                                                                                                                                                                        |  |           |     |     |           |      |     |    |            |     |  |    |
| Amount:                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | T                                   | T                                                                                                                                                                                                                                   | T                                   | T                                   | D                                   | S                                   | N                        |       |                                                                                                               |         |       |       |     |                    |   |      |      |             |                                     |                                     |                                     |                                     |                                     |                                     |                          |                                                                                                                                                                |                   |   |      |      |      |      |      |      |  |  |  |  |      |                 |    |      |      |      |      |      |      |  |  |  |  |      |                                                                                                                                                                                                                                                                                                                        |  |           |     |     |           |      |     |    |            |     |  |    |
| Loc: P/S/O:                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/>                                                                                                                                                                                                 | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> |       |                                                                                                               |         |       |       |     |                    |   |      |      |             |                                     |                                     |                                     |                                     |                                     |                                     |                          |                                                                                                                                                                |                   |   |      |      |      |      |      |      |  |  |  |  |      |                 |    |      |      |      |      |      |      |  |  |  |  |      |                                                                                                                                                                                                                                                                                                                        |  |           |     |     |           |      |     |    |            |     |  |    |
| LWD: F DIST: E<br>LB SHP: S<br>Texture: F <input checked="" type="checkbox"/> G <input checked="" type="checkbox"/> C <input checked="" type="checkbox"/> B <input checked="" type="checkbox"/> R <input type="checkbox"/> A <input type="checkbox"/>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                                     | RB SHP: S<br>Texture: F <input checked="" type="checkbox"/> G <input checked="" type="checkbox"/> C <input checked="" type="checkbox"/> B <input checked="" type="checkbox"/> R <input type="checkbox"/> A <input type="checkbox"/> |                                     |                                     |                                     |                                     |                          |       |                                                                                                               |         |       |       |     |                    |   |      |      |             |                                     |                                     |                                     |                                     |                                     |                                     |                          |                                                                                                                                                                |                   |   |      |      |      |      |      |      |  |  |  |  |      |                 |    |      |      |      |      |      |      |  |  |  |  |      |                                                                                                                                                                                                                                                                                                                        |  |           |     |     |           |      |     |    |            |     |  |    |
| RIP: S<br>STG: NA                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                                     | RIP: S<br>STG: NA                                                                                                                                                                                                                   |                                     |                                     |                                     |                                     |                          |       |                                                                                                               |         |       |       |     |                    |   |      |      |             |                                     |                                     |                                     |                                     |                                     |                                     |                          |                                                                                                                                                                |                   |   |      |      |      |      |      |      |  |  |  |  |      |                 |    |      |      |      |      |      |      |  |  |  |  |      |                                                                                                                                                                                                                                                                                                                        |  |           |     |     |           |      |     |    |            |     |  |    |

| WATER                                                       |                                                                                                                                                      |
|-------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------|
| EMS:<br>Temp: 8<br>pH: 6.5<br>Flood Signs: Suspended debris | Req #:<br>Cond.: 50<br>Turb.: T <input type="checkbox"/> M <input type="checkbox"/> L <input type="checkbox"/> C <input checked="" type="checkbox"/> |
| Method: T3                                                  | Method: S4                                                                                                                                           |
| Method: P4                                                  | Method: GE                                                                                                                                           |
| Method: GE                                                  |                                                                                                                                                      |

| MORPHOLOGY                                                                                                                                                                |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                          |                          |                                     |                                     |                          |                          |                          |                          |                          |                          |                          |                                     |                                     |                          |    |    |    |    |    |    |    |    |    |    |                          |                          |                          |                          |                          |                          |                          |                          |                          |                          |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------|--------------------------|-------------------------------------|-------------------------------------|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|-------------------------------------|-------------------------------------|--------------------------|----|----|----|----|----|----|----|----|----|----|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|
| Bed Material: Dominant: C Subdom: G<br>D95: 25.0 D (cm): 16.00 Morph: CP<br>Pattern: SI<br>Islands: N<br>Coupling: CO<br>Confinement: CO<br>FSZ: <input type="checkbox"/> | DISTURBANCE INDICATORS<br><table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th>O1</th> <th>B1</th> <th>B2</th> <th>B3</th> <th>D1</th> <th>D2</th> <th>D3</th> </tr> </thead> <tbody> <tr> <td><input type="checkbox"/></td> <td><input type="checkbox"/></td> <td><input type="checkbox"/></td> <td><input type="checkbox"/></td> <td><input checked="" type="checkbox"/></td> <td><input checked="" type="checkbox"/></td> <td><input type="checkbox"/></td> </tr> </tbody> </table> <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th>C1</th> <th>C2</th> <th>C3</th> <th>C4</th> <th>C5</th> <th>S1</th> <th>S2</th> <th>S3</th> <th>S4</th> <th>S5</th> </tr> </thead> <tbody> <tr> <td><input type="checkbox"/></td> <td><input type="checkbox"/></td> <td><input type="checkbox"/></td> <td><input type="checkbox"/></td> <td><input type="checkbox"/></td> <td><input type="checkbox"/></td> <td><input type="checkbox"/></td> <td><input type="checkbox"/></td> <td><input type="checkbox"/></td> <td><input type="checkbox"/></td> </tr> </tbody> </table> Bars: N <input type="checkbox"/> SIDE <input checked="" type="checkbox"/> DIAG <input checked="" type="checkbox"/> MID <input checked="" type="checkbox"/> SPAN <input type="checkbox"/> BR <input type="checkbox"/> | O1                       | B1                       | B2                                  | B3                                  | D1                       | D2                       | D3                       | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | C1 | C2 | C3 | C4 | C5 | S1 | S2 | S3 | S4 | S5 | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| O1                                                                                                                                                                        | B1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | B2                       | B3                       | D1                                  | D2                                  | D3                       |                          |                          |                          |                          |                          |                          |                                     |                                     |                          |    |    |    |    |    |    |    |    |    |    |                          |                          |                          |                          |                          |                          |                          |                          |                          |                          |
| <input type="checkbox"/>                                                                                                                                                  | <input type="checkbox"/>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> |                          |                          |                          |                          |                          |                          |                                     |                                     |                          |    |    |    |    |    |    |    |    |    |    |                          |                          |                          |                          |                          |                          |                          |                          |                          |                          |
| C1                                                                                                                                                                        | C2                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | C3                       | C4                       | C5                                  | S1                                  | S2                       | S3                       | S4                       | S5                       |                          |                          |                          |                                     |                                     |                          |    |    |    |    |    |    |    |    |    |    |                          |                          |                          |                          |                          |                          |                          |                          |                          |                          |
| <input type="checkbox"/>                                                                                                                                                  | <input type="checkbox"/>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/>            | <input type="checkbox"/>            | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |                          |                          |                          |                                     |                                     |                          |    |    |    |    |    |    |    |    |    |    |                          |                          |                          |                          |                          |                          |                          |                          |                          |                          |

| FEATURES                                  |      |      |     |        |    |        |                  |          |                  |        |  |
|-------------------------------------------|------|------|-----|--------|----|--------|------------------|----------|------------------|--------|--|
| NID Map                                   | NID  | Type | Hgt | Method | Lg | Method | Photo            | AirPhoto | UTM (Z/E/N)      | Method |  |
| 093M.009                                  | 1301 | C    | 2.5 | HC     | 11 | HC     | R: DIG F: 951 L: | #:       | 9.670459.6107506 | GIS    |  |
| Comments: 22% 3rd step impassable to fish |      |      |     |        |    |        |                  |          |                  |        |  |

| HABITAT QUALITY  |                                                           |
|------------------|-----------------------------------------------------------|
| Name             | Comments                                                  |
| Spawning Habitat | None-mixed C/G, observed usable habitat ~250m from site.  |
| Rearing Habitat  | Good in LWD pools, however high flows may affect quality. |

# FDIS Site Card

## 2006 RFFHI Babine L. Tributaries - Re-sampling

Watershed Code: 480-595000-00000-00000-0000-000-000-000-000-000-000

|         |           |       |      |
|---------|-----------|-------|------|
| Reach # | ILP Map # | ILP # | Site |
| 3.2     | 093M.009  | 10115 | 102  |

| HABITAT QUALITY    |     |                                                                                                                     |                      |          |                            |
|--------------------|-----|---------------------------------------------------------------------------------------------------------------------|----------------------|----------|----------------------------|
| Name               |     |                                                                                                                     | Comments             |          |                            |
| OverWinter Habitat |     |                                                                                                                     | Some pools suitable. |          |                            |
| PHOTOS             |     |                                                                                                                     |                      |          |                            |
| Photo              |     | Foc Lg                                                                                                              | Dir                  | Comments |                            |
| R:                 | DIG | F: 951                                                                                                              | STD                  | U        | feature - person for scale |
| R:                 | DIG | F: 952                                                                                                              | STD                  | U        | person for scale           |
| R:                 | DIG | F: 953                                                                                                              | STD                  | D        | book for scale             |
| COMMENTS           |     |                                                                                                                     |                      |          |                            |
| Section            |     | Comments                                                                                                            |                      |          |                            |
| SITE CARD          |     | Suspected v. scarce RB population; access inhibited by numerous small LWD piles. No obstruction other than cascade. |                      |          |                            |
| SITE CARD          |     | site 100m d/s from start of cascade (canyon)                                                                        |                      |          |                            |



# FDIS Fish Card

## 2006 RFFHI Babine L. Tributaries - Re-sampling

Watershed Code: 480-595000-00000-00000-0000-000-000-000-000-000-000  
 Reach #: 3.2      ILP Map #: 093M.009      ILP #: 10115

| WATERBODY                                                       |          |       |                          |                     |         |                |          |                 |           |                      |            |                                    |  |
|-----------------------------------------------------------------|----------|-------|--------------------------|---------------------|---------|----------------|----------|-----------------|-----------|----------------------|------------|------------------------------------|--|
| Gazetted Name:                                                  |          |       |                          |                     |         |                |          |                 |           | Local: Unnamed Creek |            |                                    |  |
| Project Code: 480-000000-00000-00000-0000-000-000-000-000-000-0 |          |       |                          |                     |         |                |          |                 |           |                      |            |                                    |  |
| WS Code: 480-595000-00000-00000-0000-000-000-000-000-000-000    |          |       |                          |                     |         |                |          |                 |           |                      |            |                                    |  |
| Waterbody ID:                                                   |          |       |                          | ILP Map #: 093M.009 |         |                |          | ILP #: 10115    |           | Reach #: 3.2 -       |            |                                    |  |
| Project ID: 06-BABL-00015953-2006                               |          |       |                          | Lake/Stream: S      |         |                |          | Lake From Date: |           |                      |            |                                    |  |
| Fish Permit #: SM06-24176                                       |          |       |                          | Date: 2006/07/31    |         | To: 2006/07/31 |          | Agency: C016    |           | Crew: MJ/JL          |            | Resample: <input type="checkbox"/> |  |
| SITE / METHOD                                                   |          |       |                          |                     |         |                |          |                 |           |                      |            |                                    |  |
| Site#                                                           | NID Map  | NID # | UTM:Zone/East/North/Mthd |                     |         | MTD/NO         |          | Temp            | Cond      | Turbid               | Comment    |                                    |  |
| 102                                                             | 093M.009 | 13    |                          |                     |         | GP3            | VO       | 1               | 8         | 50                   | C          |                                    |  |
| 102                                                             | 093M.009 | 13    |                          |                     |         | GP3            | EF       | 1               | 8         | 50                   | C          |                                    |  |
| A. GEAR SETTINGS                                                |          |       |                          |                     |         |                |          |                 |           |                      |            |                                    |  |
| Site#                                                           | MTD/NO   |       | H/P                      | Date In             | Time In | Date Out       | Time Out | Comment         |           |                      |            |                                    |  |
| 102                                                             | EF       | 1     | 1                        | 2006/07/31          | 12:42   | 2006/07/31     | 13:00    |                 |           |                      |            |                                    |  |
| 102                                                             | VO       | 1     | 1                        | 2006/07/31          | 12:42   | 2006/07/31     | 13:00    |                 |           |                      |            |                                    |  |
| C. ELECTROFISHER SPECIFICATIONS                                 |          |       |                          |                     |         |                |          |                 |           |                      |            |                                    |  |
| Site#                                                           | MTD/NO   |       | H/P                      | Encl                | Sec     | Length         | Width    | Voltage         | Frequency | Pulse                | Make       | Model                              |  |
| 102                                                             | EF       | 1     | 1                        | O                   | 236     | 160.0          | 3.0      | 600             | 70        | 6                    | SMITH-ROOT | 12 B                               |  |
| FISH SUMMARY                                                    |          |       |                          |                     |         |                |          |                 |           |                      |            |                                    |  |
| Site#                                                           | MTD/NO   |       | H/P                      | Species             | Stage   | Age            | Total #  | Lgth (Min/Max)  |           | FishAct              | Comment    |                                    |  |
| 102                                                             | EF       | 1     | 1                        | NFC                 |         |                | 0        |                 |           |                      |            |                                    |  |
| 102                                                             | VO       | 1     | 1                        | NFC                 |         |                | 0        |                 |           |                      |            |                                    |  |

# FDIS Reach Card

## 2006 RFFHI Babine L. Tributaries - Re-sampling

|                                                                      |  |                |                       |                |
|----------------------------------------------------------------------|--|----------------|-----------------------|----------------|
| Watershed Code: 480-595000-00000-00000-0000-0000-000-000-000-000-000 |  | Reach #<br>3.2 | ILP Map #<br>093M.009 | ILP #<br>10115 |
|----------------------------------------------------------------------|--|----------------|-----------------------|----------------|

| PROJECT                                                                      |  |  |  |  |                                     |  |  |  |  |
|------------------------------------------------------------------------------|--|--|--|--|-------------------------------------|--|--|--|--|
| Project Name: Babine Lake Face Unit Re-sampling - 2006                       |  |  |  |  | Project Code: 06-BABL-00015953-2006 |  |  |  |  |
| Stream Name (gaz.): BABINE RIVER                                             |  |  |  |  |                                     |  |  |  |  |
| Project Watershed Code: 480-000000-00000-00000-0000-0000-000-000-000-000-000 |  |  |  |  |                                     |  |  |  |  |

| WATERSHED                                                                  |  |                      |       |              |  |                             |  |                                   |  |
|----------------------------------------------------------------------------|--|----------------------|-------|--------------|--|-----------------------------|--|-----------------------------------|--|
| Reach Watershed Code: 480-595000-00000-00000-0000-0000-000-000-000-000-000 |  |                      |       |              |  |                             |  |                                   |  |
| ILP Map #: 093M.009                                                        |  | ILP #: 10115         |       | Reach #: 3.2 |  | NID Map #: 093M.009         |  | NID #: 20002                      |  |
| Air Photos                                                                 |  |                      | Names |              |  | UTM(Zone/East/North/Method) |  |                                   |  |
| LINE:                                                                      |  | Gaz.:                |       |              |  | 9.670460.6107506            |  | GIS                               |  |
| #:                                                                         |  | Local: Unnamed Creek |       |              |  | Sample Type: B              |  | Wetland: <input type="checkbox"/> |  |

| SURVEY INFO      |  |  |              |  |  |             |  |  |  |
|------------------|--|--|--------------|--|--|-------------|--|--|--|
| Date: 2006/06/20 |  |  | Agency: C016 |  |  | Crew: MJ/JL |  |  |  |

| ATTRIBUTES                                          |  |                |  |                                                                           |  |                               |  |                              |                               |                             |                          |                          |                          |                          |
|-----------------------------------------------------|--|----------------|--|---------------------------------------------------------------------------|--|-------------------------------|--|------------------------------|-------------------------------|-----------------------------|--------------------------|--------------------------|--------------------------|--------------------------|
| Length (km): .54                                    |  | Gradient: 7.78 |  | Setting: VW                                                               |  | DISTURBANCE                   |  | O1                           | B1                            | B2                          | B3                       | D1                       | D2                       | D3                       |
| DS Elev.: 801                                       |  | Order: 2       |  | Open water: A                                                             |  | INDICATORS                    |  | <input type="checkbox"/>     | <input type="checkbox"/>      | <input type="checkbox"/>    | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| US Elev: 843                                        |  | Magnitude: 6   |  | Confinement: FC                                                           |  | C1 C2 C3 C4 C5                |  | S1                           | S2                            | S3                          | S4                       | S5                       |                          |                          |
|                                                     |  | BGC Zone: SBS  |  | Coupling: CO                                                              |  | <input type="checkbox"/>      |  | <input type="checkbox"/>     | <input type="checkbox"/>      | <input type="checkbox"/>    | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| Valley Flat: B                                      |  | C/D: D         |  | Islands: N                                                                |  |                               |  |                              |                               |                             |                          |                          |                          |                          |
| Active Floodplain Visible: <input type="checkbox"/> |  | Est. Width:    |  | Bars: <input checked="" type="checkbox"/> N <input type="checkbox"/> SIDE |  | <input type="checkbox"/> DIAG |  | <input type="checkbox"/> MID | <input type="checkbox"/> SPAN | <input type="checkbox"/> BR |                          |                          |                          |                          |
| Channel Pattern: SI                                 |  |                |  | Mass Movement: L                                                          |  | Exposed/Eroded: NV            |  | Landuse: NO                  |                               |                             |                          |                          |                          |                          |
|                                                     |  |                |  | Riparian Veg.: S                                                          |  |                               |  |                              |                               |                             |                          |                          |                          |                          |

| MAPS     |          |      |
|----------|----------|------|
| Map Type | Map #    | Year |
| TRIM     | 093M.009 | 2006 |

# FDIS Site Card

## 2006 RFFHI Babine L. Tributaries - Re-sampling

Watershed Code: 480-593400-74462-00000-00000-0000-000-000-000-000-000

|         |           |       |      |
|---------|-----------|-------|------|
| Reach # | ILP Map # | ILP # | Site |
| 1.0     | 093M.009  | 10021 | 103  |

### PROJECT

|                                                                             |                                     |
|-----------------------------------------------------------------------------|-------------------------------------|
| Project Name: Babine Lake Face Unit Re-sampling - 2006                      | Project Code: 06-BABL-00015953-2006 |
| Stream Name (gaz.): BABINE RIVER                                            |                                     |
| Project Watershed Code: 480-000000-00000-00000-0000-000-000-000-000-000-000 |                                     |

### WATERSHED

|                                                                           |                           |                     |             |                                     |                                      |
|---------------------------------------------------------------------------|---------------------------|---------------------|-------------|-------------------------------------|--------------------------------------|
| Gazetted Name:                                                            | Local Name: Unnamed Creek |                     |             |                                     |                                      |
| Watershed Code: 480-593400-74462-00000-00000-0000-000-000-000-000-000-000 |                           |                     |             |                                     |                                      |
| ILP Map #: 093M.009                                                       | ILP #: 10021              | NID Map #: 093M.009 | NID #: 11   | Reach #: 1.0                        | Site #: 103                          |
| Field UTM (Z.E.N): 9.671863.6102625                                       | Method: GP3               | Site Lg: 100        | Method: GE  | Access: B                           |                                      |
| GIS UTM (Z.E.N): 9.671856.6102603                                         | Ref. Name:                |                     |             |                                     |                                      |
| Date: 2006/07/03                                                          | Time: 11:55               | Agency: C016        | Crew: MJ/JL | Fish Crd?: <input type="checkbox"/> | Incomplete: <input type="checkbox"/> |

### CHANNEL

|                    |     |       |       |       |       |       |       |       |       |       |       |      |  |                |     |     |      |
|--------------------|-----|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|------|--|----------------|-----|-----|------|
|                    | Mtd | width | width | width | width | width | width | width | width | width | width | Avg  |  | Gadient %      | Mtd | Avg |      |
| Channel Width (m): | T   | 1.40  | 1.40  | 1.50  | 1.40  | 1.30  | 1.50  |       |       |       |       | 1.42 |  | Method I: 6.0  | 3.0 | AL  | 4.00 |
| Wetted Width (m):  | GE  | 0.00  | 0.00  | 0.00  | 0.00  | 0.00  | 0.00  |       |       |       |       | 0.00 |  | Method II: 3.0 |     | AL  |      |
| Pool Depth (m):    | GE  | 0.00  | 0.00  | 0.00  | 0.00  | 0.00  | 0.00  |       |       |       |       | 0.00 |  |                |     |     |      |

|           |    |    |    |           |            |                                                                                                    |                                                                                        |                                                               |
|-----------|----|----|----|-----------|------------|----------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------|---------------------------------------------------------------|
| Wb Depth: | .2 | .2 | .3 | Avg: 0.23 | Method: MS | Stage: L <input checked="" type="checkbox"/> M <input type="checkbox"/> H <input type="checkbox"/> | No Vis.Ch.: <input type="checkbox"/> Intermittent: <input checked="" type="checkbox"/> | Dw: <input type="checkbox"/> Tribs.: <input type="checkbox"/> |
|-----------|----|----|----|-----------|------------|----------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------|---------------------------------------------------------------|

|             |                                                                            |                                                                            |                                                                            |                                                                            |                                                                            |                                                                            |                                                                            |
|-------------|----------------------------------------------------------------------------|----------------------------------------------------------------------------|----------------------------------------------------------------------------|----------------------------------------------------------------------------|----------------------------------------------------------------------------|----------------------------------------------------------------------------|----------------------------------------------------------------------------|
| COVER       | Total: N                                                                   |                                                                            |                                                                            |                                                                            |                                                                            |                                                                            |                                                                            |
| Type:       | SWD                                                                        | LWD                                                                        | B                                                                          | U                                                                          | DP                                                                         | OV                                                                         | IV                                                                         |
| Amount:     | N                                                                          | N                                                                          | N                                                                          | N                                                                          | N                                                                          | N                                                                          | N                                                                          |
| Loc: P/S/O: | <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> | <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> | <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> | <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> | <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> | <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> | <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> |

|                                                                                                                                                                                                  |                                                                                                                                                                                                  |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| LWD: F                                                                                                                                                                                           | DIST: E                                                                                                                                                                                          |
| LB SHP: V                                                                                                                                                                                        | RB SHP: V                                                                                                                                                                                        |
| Texture: F <input checked="" type="checkbox"/> G <input type="checkbox"/> C <input checked="" type="checkbox"/> B <input type="checkbox"/> R <input type="checkbox"/> A <input type="checkbox"/> | Texture: F <input checked="" type="checkbox"/> G <input type="checkbox"/> C <input checked="" type="checkbox"/> B <input type="checkbox"/> R <input type="checkbox"/> A <input type="checkbox"/> |
| RIP: S                                                                                                                                                                                           | RIP: S                                                                                                                                                                                           |
| STG: NA                                                                                                                                                                                          | STG: NA                                                                                                                                                                                          |

|               |                                                                                                                        |        |
|---------------|------------------------------------------------------------------------------------------------------------------------|--------|
| CROWN CLOSURE | 2                                                                                                                      | 21-40% |
| INSTREAM VEG: | N <input type="checkbox"/> A <input type="checkbox"/> M <input checked="" type="checkbox"/> V <input type="checkbox"/> |        |

### WATER

|                   |            |                                                                                                                    |
|-------------------|------------|--------------------------------------------------------------------------------------------------------------------|
| EMS:              | Method: T3 | Req #:                                                                                                             |
| Temp:             | Method: P4 | Cond.:                                                                                                             |
| pH:               | Method: GE | Turb.: T <input type="checkbox"/> M <input type="checkbox"/> L <input type="checkbox"/> C <input type="checkbox"/> |
| Flood Signs: none |            | Method: S4                                                                                                         |
|                   |            | Method: GE                                                                                                         |

### MORPHOLOGY

|                               |              |           |                                             |                               |                               |                              |                               |                             |                          |                          |                          |                          |
|-------------------------------|--------------|-----------|---------------------------------------------|-------------------------------|-------------------------------|------------------------------|-------------------------------|-----------------------------|--------------------------|--------------------------|--------------------------|--------------------------|
| Bed Material:                 | Dominant: F  | Subdom: C | O1                                          | B1                            | B2                            | B3                           | D1                            | D2                          | D3                       |                          |                          |                          |
| D95: 30.0                     | D (cm): 3.00 | Morph: RP | <input type="checkbox"/>                    | <input type="checkbox"/>      | <input type="checkbox"/>      | <input type="checkbox"/>     | <input type="checkbox"/>      | <input type="checkbox"/>    | <input type="checkbox"/> |                          |                          |                          |
| Pattern: SI                   |              |           | C1                                          | C2                            | C3                            | C4                           | C5                            | S1                          | S2                       | S3                       | S4                       | S5                       |
| Islands: N                    |              |           | <input type="checkbox"/>                    | <input type="checkbox"/>      | <input type="checkbox"/>      | <input type="checkbox"/>     | <input type="checkbox"/>      | <input type="checkbox"/>    | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| Coupling: CO                  |              |           |                                             |                               |                               |                              |                               |                             |                          |                          |                          |                          |
| Confinement: CO               |              |           |                                             |                               |                               |                              |                               |                             |                          |                          |                          |                          |
| FSZ: <input type="checkbox"/> |              |           | Bars: N <input checked="" type="checkbox"/> | SIDE <input type="checkbox"/> | DIAG <input type="checkbox"/> | MID <input type="checkbox"/> | SPAN <input type="checkbox"/> | BR <input type="checkbox"/> |                          |                          |                          |                          |

### HABITAT QUALITY

|       |                                                                                |
|-------|--------------------------------------------------------------------------------|
| Name  | Comments                                                                       |
| Other | NFH - seasonal stream in too short watered period to support fish use (in R1). |

### PHOTOS

|               |        |     |                  |
|---------------|--------|-----|------------------|
| Photo         | Foc Lg | Dir | Comments         |
| R: DIG F: 870 | STD    | U   | tape for scale   |
| R: DIG F: 871 | STD    | D   | person for scale |

### COMMENTS

Section

Comments



# FDIS Site Card

## 2006 RFFHI Babine L. Tributaries - Re-sampling

|                                                                  |                                                            | Reach # | ILP Map # | ILP # | Site |
|------------------------------------------------------------------|------------------------------------------------------------|---------|-----------|-------|------|
| Watershed Code: 480-593400-74462-00000-0000-0000-000-000-000-000 |                                                            | 1.0     | 093M.009  | 10021 | 103  |
| Section                                                          | Comments                                                   |         |           |       |      |
| SITE CARD                                                        | Watershed code is incorrectly assigned by MoE in Victoria. |         |           |       |      |
| SITE CARD                                                        | (S6)                                                       |         |           |       |      |



FDIS Reach Card

2006 RFFHI Babine L. Tributaries - Re-sampling

Watershed Code: 480-593400-74462-00000-0000-0000-000-000-000-000-000

Reach #      ILP Map #      ILP #  
1.0            093M.009      10021

| PROJECT                                                                        |  |                      |              |                 |                                     |                                                                                                                                                                                                |  |                                                                                                                                                                                                                                                           |  |
|--------------------------------------------------------------------------------|--|----------------------|--------------|-----------------|-------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|
| Project Name: Babine Lake Face Unit Re-sampling - 2006                         |  |                      |              |                 | Project Code: 06-BABL-00015953-2006 |                                                                                                                                                                                                |  |                                                                                                                                                                                                                                                           |  |
| Stream Name (gaz.): BABINE RIVER                                               |  |                      |              |                 |                                     |                                                                                                                                                                                                |  |                                                                                                                                                                                                                                                           |  |
| Project Watershed Code: 480-000000-00000-00000-0000-000-000-000-000-000-000    |  |                      |              |                 |                                     |                                                                                                                                                                                                |  |                                                                                                                                                                                                                                                           |  |
| WATERSHED                                                                      |  |                      |              |                 |                                     |                                                                                                                                                                                                |  |                                                                                                                                                                                                                                                           |  |
| Reach Watershed Code: 480-593400-74462-00000-0000-0000-000-000-000-000-000-000 |  |                      |              |                 |                                     |                                                                                                                                                                                                |  |                                                                                                                                                                                                                                                           |  |
| ILP Map #: 093M.009                                                            |  | ILP #: 10021         |              | Reach #: 1.0    |                                     | NID Map #: 093M.009                                                                                                                                                                            |  | NID #: 20171                                                                                                                                                                                                                                              |  |
| Air Photos                                                                     |  |                      | Names        |                 |                                     | UTM(Zone/East/North/Method)                                                                                                                                                                    |  |                                                                                                                                                                                                                                                           |  |
| LINE:                                                                          |  | Gaz.:                |              |                 |                                     | 9.670781.6103424                                                                                                                                                                               |  | GIS                                                                                                                                                                                                                                                       |  |
| #:                                                                             |  | Local: Unnamed Creek |              |                 |                                     | Sample Type: B                                                                                                                                                                                 |  | Wetland: <input type="checkbox"/>                                                                                                                                                                                                                         |  |
| SURVEY INFO                                                                    |  |                      |              |                 |                                     |                                                                                                                                                                                                |  |                                                                                                                                                                                                                                                           |  |
| Date: 2006/06/20                                                               |  |                      | Agency: C016 |                 |                                     | Crew: MJ/JL                                                                                                                                                                                    |  |                                                                                                                                                                                                                                                           |  |
| ATTRIBUTES                                                                     |  |                      |              |                 |                                     |                                                                                                                                                                                                |  |                                                                                                                                                                                                                                                           |  |
| Length (km): 1.43                                                              |  | Gradient: 5.8        |              | Setting: VF     |                                     | DISTURBANCE                                                                                                                                                                                    |  | O1 B1 B2 B3 D1 D2 D3                                                                                                                                                                                                                                      |  |
| DS Elev.: 716                                                                  |  | Order: 2             |              | Open water: A   |                                     | INDICATORS                                                                                                                                                                                     |  | <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>                                                                            |  |
| US Elev: 799                                                                   |  | Magnitude: 2         |              | Confinement: FC |                                     | C1 C2 C3 C4 C5 S1 S2 S3 S4 S5                                                                                                                                                                  |  | <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> |  |
|                                                                                |  | BGC Zone: SBS        |              | Coupling: PC    |                                     |                                                                                                                                                                                                |  | <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> |  |
| Valley Flat: N                                                                 |  | C/D:                 |              |                 |                                     | Islands: N                                                                                                                                                                                     |  |                                                                                                                                                                                                                                                           |  |
| Active Floodplain Visible: <input type="checkbox"/>                            |  | Est. Width:          |              |                 |                                     | Bars: <input checked="" type="checkbox"/> N <input type="checkbox"/> SIDE <input type="checkbox"/> DIAG <input type="checkbox"/> MID <input type="checkbox"/> SPAN <input type="checkbox"/> BR |  |                                                                                                                                                                                                                                                           |  |
| Channel Pattern: SI                                                            |  |                      |              |                 |                                     | Mass Movement: L                                                                                                                                                                               |  | Exposed/Eroded: N                                                                                                                                                                                                                                         |  |
|                                                                                |  |                      |              |                 |                                     | Riparian Veg.: C                                                                                                                                                                               |  | Landuse: OT                                                                                                                                                                                                                                               |  |

| MAPS     |          |      |
|----------|----------|------|
| Map Type | Map #    | Year |
| TRIM     | 093M.009 | 2006 |

# FDIS Site Card

## 2006 RFFHI Babine L. Tributaries - Re-sampling

Watershed Code: 480-579300-00000-00000-0000-000-000-000-000-000-000

Reach # 1.0 ILP Map # 093M.009 ILP # 10024 Site 104

| PROJECT                                                                     |                                     |
|-----------------------------------------------------------------------------|-------------------------------------|
| Project Name: Babine Lake Face Unit Re-sampling - 2006                      | Project Code: 06-BABL-00015953-2006 |
| Stream Name (gaz.): BABINE RIVER                                            |                                     |
| Project Watershed Code: 480-000000-00000-00000-0000-000-000-000-000-000-000 |                                     |

| WATERSHED                                                           |                                                                                                                          |
|---------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------|
| Gazetted Name:                                                      | Local Name: Unnamed Creek                                                                                                |
| Watershed Code: 480-579300-00000-00000-0000-000-000-000-000-000-000 |                                                                                                                          |
| ILP Map #: 093M.009                                                 | ILP #: 10024 NID Map #: 093M.009                                                                                         |
| NID #: 10                                                           | Reach #: 1.0 Site #: 104                                                                                                 |
| Field UTM (Z.E.N): 9.668038.6103209                                 | Method: GP3                                                                                                              |
| GIS UTM (Z.E.N): 9.668038.6103208                                   | Site Lg: 250 Method: GE Access: B                                                                                        |
| Ref. Name:                                                          |                                                                                                                          |
| Date: 2006/07/03                                                    | Time: 08:15 Agency: C016 Crew: MJ/JL Fish Crd?: <input checked="" type="checkbox"/> Incomplete: <input type="checkbox"/> |

| CHANNEL                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                                     |                                                                                                                                                                                                                          |                                     |                          |                                     |                                     |                          |       |                                                                                                               |         |       |       |     |                    |   |      |      |             |                                     |                                     |                                     |                          |                                     |                                     |                          |                                                                                                                                                                |                   |   |      |      |      |      |      |      |  |  |  |  |      |                 |    |      |      |      |      |  |  |  |  |  |  |      |                                                                                                                                                                                                                                                                                                                          |  |           |     |     |           |     |     |    |            |     |     |    |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------|--------------------------|-------------------------------------|-------------------------------------|--------------------------|-------|---------------------------------------------------------------------------------------------------------------|---------|-------|-------|-----|--------------------|---|------|------|-------------|-------------------------------------|-------------------------------------|-------------------------------------|--------------------------|-------------------------------------|-------------------------------------|--------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------|---|------|------|------|------|------|------|--|--|--|--|------|-----------------|----|------|------|------|------|--|--|--|--|--|--|------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|-----------|-----|-----|-----------|-----|-----|----|------------|-----|-----|----|
| <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th></th> <th>Mtd</th> <th>width</th> <th>width</th> <th>width</th> <th>width</th> <th>width</th> <th>width</th> <th>width</th> <th>width</th> <th>width</th> <th>width</th> <th>Avg</th> </tr> </thead> <tbody> <tr> <td>Channel Width (m):</td> <td>T</td> <td>3.10</td> <td>2.40</td> <td>2.20</td> <td>1.90</td> <td>2.30</td> <td>3.60</td> <td></td> <td></td> <td></td> <td></td> <td>2.58</td> </tr> <tr> <td>Wetted Width (m):</td> <td>T</td> <td>1.00</td> <td>2.00</td> <td>0.90</td> <td>1.00</td> <td>1.80</td> <td>1.10</td> <td></td> <td></td> <td></td> <td></td> <td>1.30</td> </tr> <tr> <td>Pool Depth (m):</td> <td>MS</td> <td>0.10</td> <td>0.11</td> <td>0.21</td> <td>0.30</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>0.18</td> </tr> </tbody> </table> |                                     | Mtd                                                                                                                                                                                                                      | width                               | width                    | width                               | width                               | width                    | width | width                                                                                                         | width   | width | width | Avg | Channel Width (m): | T | 3.10 | 2.40 | 2.20        | 1.90                                | 2.30                                | 3.60                                |                          |                                     |                                     |                          | 2.58                                                                                                                                                           | Wetted Width (m): | T | 1.00 | 2.00 | 0.90 | 1.00 | 1.80 | 1.10 |  |  |  |  | 1.30 | Pool Depth (m): | MS | 0.10 | 0.11 | 0.21 | 0.30 |  |  |  |  |  |  | 0.18 | <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th></th> <th>Gadient %</th> <th>Mtd</th> <th>Avg</th> </tr> </thead> <tbody> <tr> <td>Method I:</td> <td>2.0</td> <td>4.0</td> <td>AL</td> </tr> <tr> <td>Method II:</td> <td>4.0</td> <td>6.0</td> <td>AL</td> </tr> </tbody> </table> |  | Gadient % | Mtd | Avg | Method I: | 2.0 | 4.0 | AL | Method II: | 4.0 | 6.0 | AL |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | Mtd                                 | width                                                                                                                                                                                                                    | width                               | width                    | width                               | width                               | width                    | width | width                                                                                                         | width   | width | Avg   |     |                    |   |      |      |             |                                     |                                     |                                     |                          |                                     |                                     |                          |                                                                                                                                                                |                   |   |      |      |      |      |      |      |  |  |  |  |      |                 |    |      |      |      |      |  |  |  |  |  |  |      |                                                                                                                                                                                                                                                                                                                          |  |           |     |     |           |     |     |    |            |     |     |    |
| Channel Width (m):                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | T                                   | 3.10                                                                                                                                                                                                                     | 2.40                                | 2.20                     | 1.90                                | 2.30                                | 3.60                     |       |                                                                                                               |         |       | 2.58  |     |                    |   |      |      |             |                                     |                                     |                                     |                          |                                     |                                     |                          |                                                                                                                                                                |                   |   |      |      |      |      |      |      |  |  |  |  |      |                 |    |      |      |      |      |  |  |  |  |  |  |      |                                                                                                                                                                                                                                                                                                                          |  |           |     |     |           |     |     |    |            |     |     |    |
| Wetted Width (m):                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | T                                   | 1.00                                                                                                                                                                                                                     | 2.00                                | 0.90                     | 1.00                                | 1.80                                | 1.10                     |       |                                                                                                               |         |       | 1.30  |     |                    |   |      |      |             |                                     |                                     |                                     |                          |                                     |                                     |                          |                                                                                                                                                                |                   |   |      |      |      |      |      |      |  |  |  |  |      |                 |    |      |      |      |      |  |  |  |  |  |  |      |                                                                                                                                                                                                                                                                                                                          |  |           |     |     |           |     |     |    |            |     |     |    |
| Pool Depth (m):                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | MS                                  | 0.10                                                                                                                                                                                                                     | 0.11                                | 0.21                     | 0.30                                |                                     |                          |       |                                                                                                               |         |       | 0.18  |     |                    |   |      |      |             |                                     |                                     |                                     |                          |                                     |                                     |                          |                                                                                                                                                                |                   |   |      |      |      |      |      |      |  |  |  |  |      |                 |    |      |      |      |      |  |  |  |  |  |  |      |                                                                                                                                                                                                                                                                                                                          |  |           |     |     |           |     |     |    |            |     |     |    |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | Gadient %                           | Mtd                                                                                                                                                                                                                      | Avg                                 |                          |                                     |                                     |                          |       |                                                                                                               |         |       |       |     |                    |   |      |      |             |                                     |                                     |                                     |                          |                                     |                                     |                          |                                                                                                                                                                |                   |   |      |      |      |      |      |      |  |  |  |  |      |                 |    |      |      |      |      |  |  |  |  |  |  |      |                                                                                                                                                                                                                                                                                                                          |  |           |     |     |           |     |     |    |            |     |     |    |
| Method I:                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | 2.0                                 | 4.0                                                                                                                                                                                                                      | AL                                  |                          |                                     |                                     |                          |       |                                                                                                               |         |       |       |     |                    |   |      |      |             |                                     |                                     |                                     |                          |                                     |                                     |                          |                                                                                                                                                                |                   |   |      |      |      |      |      |      |  |  |  |  |      |                 |    |      |      |      |      |  |  |  |  |  |  |      |                                                                                                                                                                                                                                                                                                                          |  |           |     |     |           |     |     |    |            |     |     |    |
| Method II:                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | 4.0                                 | 6.0                                                                                                                                                                                                                      | AL                                  |                          |                                     |                                     |                          |       |                                                                                                               |         |       |       |     |                    |   |      |      |             |                                     |                                     |                                     |                          |                                     |                                     |                          |                                                                                                                                                                |                   |   |      |      |      |      |      |      |  |  |  |  |      |                 |    |      |      |      |      |  |  |  |  |  |  |      |                                                                                                                                                                                                                                                                                                                          |  |           |     |     |           |     |     |    |            |     |     |    |
| <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th>Wb Depth:</th> <th>.4</th> <th>.4</th> <th>.5</th> </tr> </thead> <tbody> <tr> <td>Avg: 0.43</td> <td colspan="3"></td> </tr> </tbody> </table>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | Wb Depth:                           | .4                                                                                                                                                                                                                       | .4                                  | .5                       | Avg: 0.43                           |                                     |                          |       | Method: MS Stage: L <input checked="" type="checkbox"/> M <input type="checkbox"/> H <input type="checkbox"/> |         |       |       |     |                    |   |      |      |             |                                     |                                     |                                     |                          |                                     |                                     |                          |                                                                                                                                                                |                   |   |      |      |      |      |      |      |  |  |  |  |      |                 |    |      |      |      |      |  |  |  |  |  |  |      |                                                                                                                                                                                                                                                                                                                          |  |           |     |     |           |     |     |    |            |     |     |    |
| Wb Depth:                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | .4                                  | .4                                                                                                                                                                                                                       | .5                                  |                          |                                     |                                     |                          |       |                                                                                                               |         |       |       |     |                    |   |      |      |             |                                     |                                     |                                     |                          |                                     |                                     |                          |                                                                                                                                                                |                   |   |      |      |      |      |      |      |  |  |  |  |      |                 |    |      |      |      |      |  |  |  |  |  |  |      |                                                                                                                                                                                                                                                                                                                          |  |           |     |     |           |     |     |    |            |     |     |    |
| Avg: 0.43                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                                     |                                                                                                                                                                                                                          |                                     |                          |                                     |                                     |                          |       |                                                                                                               |         |       |       |     |                    |   |      |      |             |                                     |                                     |                                     |                          |                                     |                                     |                          |                                                                                                                                                                |                   |   |      |      |      |      |      |      |  |  |  |  |      |                 |    |      |      |      |      |  |  |  |  |  |  |      |                                                                                                                                                                                                                                                                                                                          |  |           |     |     |           |     |     |    |            |     |     |    |
| COVER Total: M <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th>Type:</th> <th>SWD</th> <th>LWD</th> <th>B</th> <th>U</th> <th>DP</th> <th>OV</th> <th>IV</th> </tr> </thead> <tbody> <tr> <td>Amount:</td> <td>T</td> <td>T</td> <td>T</td> <td>N</td> <td>D</td> <td>S</td> <td>N</td> </tr> <tr> <td>Loc: P/S/O:</td> <td><input checked="" type="checkbox"/></td> <td><input checked="" type="checkbox"/></td> <td><input checked="" type="checkbox"/></td> <td><input type="checkbox"/></td> <td><input checked="" type="checkbox"/></td> <td><input checked="" type="checkbox"/></td> <td><input type="checkbox"/></td> </tr> </tbody> </table>                                                                                                                                                                                                    |                                     | Type:                                                                                                                                                                                                                    | SWD                                 | LWD                      | B                                   | U                                   | DP                       | OV    | IV                                                                                                            | Amount: | T     | T     | T   | N                  | D | S    | N    | Loc: P/S/O: | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | CROWN CLOSURE 2 21-40%<br>INSTREAM VEG: N <input checked="" type="checkbox"/> A <input type="checkbox"/> M <input type="checkbox"/> V <input type="checkbox"/> |                   |   |      |      |      |      |      |      |  |  |  |  |      |                 |    |      |      |      |      |  |  |  |  |  |  |      |                                                                                                                                                                                                                                                                                                                          |  |           |     |     |           |     |     |    |            |     |     |    |
| Type:                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | SWD                                 | LWD                                                                                                                                                                                                                      | B                                   | U                        | DP                                  | OV                                  | IV                       |       |                                                                                                               |         |       |       |     |                    |   |      |      |             |                                     |                                     |                                     |                          |                                     |                                     |                          |                                                                                                                                                                |                   |   |      |      |      |      |      |      |  |  |  |  |      |                 |    |      |      |      |      |  |  |  |  |  |  |      |                                                                                                                                                                                                                                                                                                                          |  |           |     |     |           |     |     |    |            |     |     |    |
| Amount:                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | T                                   | T                                                                                                                                                                                                                        | T                                   | N                        | D                                   | S                                   | N                        |       |                                                                                                               |         |       |       |     |                    |   |      |      |             |                                     |                                     |                                     |                          |                                     |                                     |                          |                                                                                                                                                                |                   |   |      |      |      |      |      |      |  |  |  |  |      |                 |    |      |      |      |      |  |  |  |  |  |  |      |                                                                                                                                                                                                                                                                                                                          |  |           |     |     |           |     |     |    |            |     |     |    |
| Loc: P/S/O:                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/>                                                                                                                                                                                      | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> |       |                                                                                                               |         |       |       |     |                    |   |      |      |             |                                     |                                     |                                     |                          |                                     |                                     |                          |                                                                                                                                                                |                   |   |      |      |      |      |      |      |  |  |  |  |      |                 |    |      |      |      |      |  |  |  |  |  |  |      |                                                                                                                                                                                                                                                                                                                          |  |           |     |     |           |     |     |    |            |     |     |    |
| LWD: F DIST: C<br>LB SHP: O<br>Texture: F <input checked="" type="checkbox"/> G <input checked="" type="checkbox"/> C <input checked="" type="checkbox"/> B <input type="checkbox"/> R <input type="checkbox"/> A <input type="checkbox"/>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                                     | RB SHP: S<br>Texture: F <input checked="" type="checkbox"/> G <input checked="" type="checkbox"/> C <input checked="" type="checkbox"/> B <input type="checkbox"/> R <input type="checkbox"/> A <input type="checkbox"/> |                                     |                          |                                     |                                     |                          |       |                                                                                                               |         |       |       |     |                    |   |      |      |             |                                     |                                     |                                     |                          |                                     |                                     |                          |                                                                                                                                                                |                   |   |      |      |      |      |      |      |  |  |  |  |      |                 |    |      |      |      |      |  |  |  |  |  |  |      |                                                                                                                                                                                                                                                                                                                          |  |           |     |     |           |     |     |    |            |     |     |    |
| RIP: S<br>STG: NA                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                                     | RIP: S<br>STG: NA                                                                                                                                                                                                        |                                     |                          |                                     |                                     |                          |       |                                                                                                               |         |       |       |     |                    |   |      |      |             |                                     |                                     |                                     |                          |                                     |                                     |                          |                                                                                                                                                                |                   |   |      |      |      |      |      |      |  |  |  |  |      |                 |    |      |      |      |      |  |  |  |  |  |  |      |                                                                                                                                                                                                                                                                                                                          |  |           |     |     |           |     |     |    |            |     |     |    |

| WATER                      |                                                                                                                               |
|----------------------------|-------------------------------------------------------------------------------------------------------------------------------|
| EMS:                       | Req #:                                                                                                                        |
| Temp: 9                    | Cond.: 110                                                                                                                    |
| pH: 7.0                    | Method: S4                                                                                                                    |
| Flood Signs: sand on banks | Method: GE                                                                                                                    |
| Method: T3                 | Turb.: T <input type="checkbox"/> M <input type="checkbox"/> L <input type="checkbox"/> C <input checked="" type="checkbox"/> |
| Method: P4                 |                                                                                                                               |
| Method: GE                 |                                                                                                                               |

| MORPHOLOGY                                                                                                                                                                                                |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                                     |                                     |                                     |                                     |                          |                          |                          |                          |                                     |                                     |                          |                                     |                                     |                                     |                          |                          |                          |                          |                          |                          |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------|-------------------------------------|-------------------------------------|-------------------------------------|--------------------------|--------------------------|--------------------------|--------------------------|-------------------------------------|-------------------------------------|--------------------------|-------------------------------------|-------------------------------------|-------------------------------------|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|
| Bed Material: Dominant: G Subdom: C<br>D95: 16.0 D (cm): 16.0 Morph: RP                                                                                                                                   | DISTURBANCE INDICATORS <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th>O1</th> <th>B1</th> <th>B2</th> <th>B3</th> <th>D1</th> <th>D2</th> <th>D3</th> </tr> </thead> <tbody> <tr> <td><input type="checkbox"/></td> <td><input checked="" type="checkbox"/></td> <td><input checked="" type="checkbox"/></td> <td><input type="checkbox"/></td> <td><input checked="" type="checkbox"/></td> <td><input checked="" type="checkbox"/></td> <td><input type="checkbox"/></td> </tr> </tbody> </table>                                                                                   | O1                                  | B1                                  | B2                                  | B3                                  | D1                       | D2                       | D3                       | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/>            |                          |                          |                          |                          |                          |                          |
| O1                                                                                                                                                                                                        | B1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | B2                                  | B3                                  | D1                                  | D2                                  | D3                       |                          |                          |                          |                                     |                                     |                          |                                     |                                     |                                     |                          |                          |                          |                          |                          |                          |
| <input type="checkbox"/>                                                                                                                                                                                  | <input checked="" type="checkbox"/>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | <input checked="" type="checkbox"/> | <input type="checkbox"/>            | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> |                          |                          |                          |                                     |                                     |                          |                                     |                                     |                                     |                          |                          |                          |                          |                          |                          |
| Pattern: IR<br>Islands: N<br>Coupling: DC<br>Confinement: UN<br>FSZ: <input type="checkbox"/>                                                                                                             | <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th>C1</th> <th>C2</th> <th>C3</th> <th>C4</th> <th>C5</th> <th>S1</th> <th>S2</th> <th>S3</th> <th>S4</th> <th>S5</th> </tr> </thead> <tbody> <tr> <td><input type="checkbox"/></td> <td><input type="checkbox"/></td> <td><input type="checkbox"/></td> <td><input checked="" type="checkbox"/></td> <td><input type="checkbox"/></td> <td><input type="checkbox"/></td> <td><input type="checkbox"/></td> <td><input type="checkbox"/></td> <td><input type="checkbox"/></td> <td><input type="checkbox"/></td> </tr> </tbody> </table> | C1                                  | C2                                  | C3                                  | C4                                  | C5                       | S1                       | S2                       | S3                       | S4                                  | S5                                  | <input type="checkbox"/> | <input type="checkbox"/>            | <input type="checkbox"/>            | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| C1                                                                                                                                                                                                        | C2                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | C3                                  | C4                                  | C5                                  | S1                                  | S2                       | S3                       | S4                       | S5                       |                                     |                                     |                          |                                     |                                     |                                     |                          |                          |                          |                          |                          |                          |
| <input type="checkbox"/>                                                                                                                                                                                  | <input type="checkbox"/>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | <input type="checkbox"/>            | <input checked="" type="checkbox"/> | <input type="checkbox"/>            | <input type="checkbox"/>            | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |                                     |                                     |                          |                                     |                                     |                                     |                          |                          |                          |                          |                          |                          |
| Bars: N <input type="checkbox"/> SIDE <input checked="" type="checkbox"/> DIAG <input checked="" type="checkbox"/> MID <input type="checkbox"/> SPAN <input type="checkbox"/> BR <input type="checkbox"/> |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                                     |                                     |                                     |                                     |                          |                          |                          |                          |                                     |                                     |                          |                                     |                                     |                                     |                          |                          |                          |                          |                          |                          |

| FEATURES                                        |      |      |     |        |    |        |             |          |                  |        |
|-------------------------------------------------|------|------|-----|--------|----|--------|-------------|----------|------------------|--------|
| NID Map                                         | NID  | Type | Hgt | Method | Lg | Method | Photo       | AirPhoto | UTM (Z/E/N)      | Method |
| 093M.009                                        | 1001 | NS   |     | HC     |    | HC     | R: F: L: #: |          | 9.667738.6103297 | GIS    |
| Comments: Mouth location @ UTM 9.668038.6103209 |      |      |     |        |    |        |             |          |                  |        |

| HABITAT QUALITY  |                                                                             |
|------------------|-----------------------------------------------------------------------------|
| Name             | Comments                                                                    |
| Spawning Habitat | Usable CO habitat, gravels abundant, juvenile CO relatively abundant.       |
| Rearing Habitat  | M-G - shallow pools somewhat exposed but cobbles & root wads provide cover. |



# FDIS Site Card

## 2006 RFFHI Babine L. Tributaries - Re-sampling

Watershed Code: 480-579300-00000-00000-0000-000-000-000-000-000-000

|         |           |       |      |
|---------|-----------|-------|------|
| Reach # | ILP Map # | ILP # | Site |
| 1.0     | 093M.009  | 10024 | 104  |

| HABITAT QUALITY    |        |                                |     |                  |
|--------------------|--------|--------------------------------|-----|------------------|
| Name               |        | Comments                       |     |                  |
| OverWinter Habitat |        | None - too shallow.            |     |                  |
| PHOTOS             |        |                                |     |                  |
| Photo              |        | Foc Lg                         | Dir | Comments         |
| R: DIG             | F: 868 | STD                            | U   | person for scale |
| R: DIG             | F: 869 | STD                            | D   | person for scale |
| COMMENTS           |        |                                |     |                  |
| Section            |        | Comments                       |     |                  |
| SITE CARD          |        | S3                             |     |                  |
| MORPHOLOGY         |        | some braided sections present. |     |                  |



## 2006 RFFHI Babine L. Tributaries - Re-sampling

| Reach # | ILP Map # | ILP # |
|---------|-----------|-------|
| 1.0     | 093M.009  | 10024 |

| WATERBODY                                                       |          |       |                          |                                                                     |          |            |         |                |           |        |            |           |  |        |        |         |
|-----------------------------------------------------------------|----------|-------|--------------------------|---------------------------------------------------------------------|----------|------------|---------|----------------|-----------|--------|------------|-----------|--|--------|--------|---------|
| Gazetted Name: Unnamed Creek                                    |          |       |                          |                                                                     |          |            |         |                |           |        |            |           |  |        |        |         |
| Project Code: 480-000000-00000-00000-0000-000-000-000-000-000-0 |          |       |                          |                                                                     |          |            |         |                |           |        |            |           |  |        |        |         |
| WS Code: 480-579300-00000-00000-0000-0000-000-000-000-000-000   |          |       |                          |                                                                     |          |            |         |                |           |        |            |           |  |        |        |         |
| Waterbody ID: 06-BABL-00015953-2006                             |          |       |                          |                                                                     |          |            |         |                |           |        |            |           |  |        |        |         |
| ILP Map #: 093M.009                                             |          |       |                          |                                                                     |          |            |         |                |           |        |            |           |  |        |        |         |
| ILP #: 10024                                                    |          |       |                          |                                                                     |          |            |         |                |           |        |            |           |  |        |        |         |
| Reach #: 1 -                                                    |          |       |                          |                                                                     |          |            |         |                |           |        |            |           |  |        |        |         |
| Lake/Stream: S                                                  |          |       |                          |                                                                     |          |            |         |                |           |        |            |           |  |        |        |         |
| Lake From Date:                                                 |          |       |                          |                                                                     |          |            |         |                |           |        |            |           |  |        |        |         |
| Fish Permit #: SM06-24176                                       |          |       |                          |                                                                     |          |            |         |                |           |        |            |           |  |        |        |         |
| Date: 2006/07/03                                                |          |       |                          |                                                                     |          |            |         |                |           |        |            |           |  |        |        |         |
| To: 2006/07/03                                                  |          |       |                          |                                                                     |          |            |         |                |           |        |            |           |  |        |        |         |
| Agency: C016                                                    |          |       |                          |                                                                     |          |            |         |                |           |        |            |           |  |        |        |         |
| Crew: MJ/JL                                                     |          |       |                          |                                                                     |          |            |         |                |           |        |            |           |  |        |        |         |
| Resample: <input type="checkbox"/>                              |          |       |                          |                                                                     |          |            |         |                |           |        |            |           |  |        |        |         |
| SITE / METHOD                                                   |          |       |                          |                                                                     |          |            |         |                |           |        |            |           |  |        |        |         |
| Site#                                                           | NID Map  | NID # | UTM:Zone/East/North/Mthd |                                                                     |          |            | MTD/NO  | Temp           | Cond      | Turbid | Comment    |           |  |        |        |         |
| 104                                                             | 093M.009 | 10    | 9                        | 668038                                                              | 6103209  | GP3        | EF      | 1              | 9         | 110    | C          |           |  |        |        |         |
| A. GEAR SETTINGS                                                |          |       |                          |                                                                     |          |            |         |                |           |        |            |           |  |        |        |         |
| Site#                                                           | MTD/NO   | H/P   | Date In                  | Time In                                                             | Date Out | Time Out   | Comment |                |           |        |            |           |  |        |        |         |
| 104                                                             | EF       | 1     | 1                        | 2006/07/03                                                          | 08:15    | 2006/07/03 | 08:25   |                |           |        |            |           |  |        |        |         |
| C. ELECTROFISHER SPECIFICATIONS                                 |          |       |                          |                                                                     |          |            |         |                |           |        |            |           |  |        |        |         |
| Site#                                                           | MTD/NO   |       | H/P                      | Encl                                                                | Sec      | Length     | Width   | Voltage        | Frequency | Pulse  | Make       | Model     |  |        |        |         |
| 104                                                             | EF       | 1     | 1                        | O                                                                   | 32       | 250.0      | 1.2     | 400            | 80        | 6      | SMITH-ROOT | 12 B      |  |        |        |         |
| INDIVIDUAL FISH DATA                                            |          |       |                          |                                                                     |          |            |         |                |           |        |            |           |  |        |        |         |
| Site#                                                           | MTD/NO   | H/P   | Species                  | Length                                                              | Weight   | Sex        | Mat     | Age            |           |        | Vch#       | Genetic   |  | Roll # | Frame# | Comment |
|                                                                 |          |       |                          |                                                                     |          |            |         | Str/Smpl#//Age |           |        |            | Str/Smpl# |  |        |        |         |
| 104                                                             | EF       | 1     | 1                        | CO                                                                  | 43       |            | U       | U              |           |        |            |           |  |        |        |         |
| 104                                                             | EF       | 1     | 1                        | CO                                                                  | 47       |            | U       | U              |           |        |            |           |  |        |        |         |
| 104                                                             | EF       | 1     | 1                        | CO                                                                  | 58       |            | U       | U              |           |        |            |           |  |        |        |         |
| 104                                                             | EF       | 1     | 1                        | CAS                                                                 | 69       |            | U       | U              |           |        |            |           |  |        |        |         |
| 104                                                             | EF       | 1     | 1                        | CO                                                                  | 43       |            | U       | U              |           |        |            |           |  |        |        |         |
| 104                                                             | EF       | 1     | 1                        | CO                                                                  | 44       |            | U       | U              |           |        |            |           |  |        |        |         |
| 104                                                             | EF       | 1     | 1                        | CAS                                                                 | 49       |            | U       | U              |           |        |            |           |  |        |        |         |
| 104                                                             | EF       | 1     | 1                        | CO                                                                  | 53       |            | U       | U              |           |        |            |           |  |        |        |         |
| COMMENTS                                                        |          |       |                          |                                                                     |          |            |         |                |           |        |            |           |  |        |        |         |
| Section                                                         |          |       |                          | Comments                                                            |          |            |         |                |           |        |            |           |  |        |        |         |
| WATERBODY                                                       |          |       |                          | No morphological differences noted from 1999 site data.             |          |            |         |                |           |        |            |           |  |        |        |         |
| WATERBODY                                                       |          |       |                          | Stream entirely dry with exception of 1 pool where CO were present. |          |            |         |                |           |        |            |           |  |        |        |         |

# FDIS Reach Card

## 2006 RFFHI Babine L. Tributaries - Re-sampling

Watershed Code: 480-579300-00000-00000-0000-0000-000-000-000-000-000-000

Reach # 1.0  
ILP Map # 093M.009  
ILP # 10024

| PROJECT                                                                          |  |                      |              |                                                                                                                                                                                                |                                     |                               |  |                                                                                                                                                                                                                                                           |  |
|----------------------------------------------------------------------------------|--|----------------------|--------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------|-------------------------------|--|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|
| Project Name: Babine Lake Face Unit Re-sampling - 2006                           |  |                      |              |                                                                                                                                                                                                | Project Code: 06-BABL-00015953-2006 |                               |  |                                                                                                                                                                                                                                                           |  |
| Stream Name (gaz.): BABINE RIVER                                                 |  |                      |              |                                                                                                                                                                                                |                                     |                               |  |                                                                                                                                                                                                                                                           |  |
| Project Watershed Code: 480-000000-00000-00000-0000-0000-000-000-000-000-000-000 |  |                      |              |                                                                                                                                                                                                |                                     |                               |  |                                                                                                                                                                                                                                                           |  |
| WATERSHED                                                                        |  |                      |              |                                                                                                                                                                                                |                                     |                               |  |                                                                                                                                                                                                                                                           |  |
| Reach Watershed Code: 480-579300-00000-00000-0000-0000-000-000-000-000-000-000   |  |                      |              |                                                                                                                                                                                                |                                     |                               |  |                                                                                                                                                                                                                                                           |  |
| ILP Map #: 093M.009                                                              |  | ILP #: 10024         |              | Reach #: 1.0                                                                                                                                                                                   |                                     | NID Map #: 093M.009           |  | NID #: 20010                                                                                                                                                                                                                                              |  |
| Air Photos                                                                       |  |                      | Names        |                                                                                                                                                                                                |                                     | UTM(Zone/East/North/Method)   |  |                                                                                                                                                                                                                                                           |  |
| LINE:                                                                            |  | Gaz.:                |              |                                                                                                                                                                                                |                                     | 9.667984.6103443              |  | GIS                                                                                                                                                                                                                                                       |  |
| #:                                                                               |  | Local: Unnamed Creek |              |                                                                                                                                                                                                |                                     | Sample Type: B                |  | Wetland: <input type="checkbox"/>                                                                                                                                                                                                                         |  |
| SURVEY INFO                                                                      |  |                      |              |                                                                                                                                                                                                |                                     |                               |  |                                                                                                                                                                                                                                                           |  |
| Date: 2006/06/20                                                                 |  |                      | Agency: C016 |                                                                                                                                                                                                |                                     | Crew: MJ/JL                   |  |                                                                                                                                                                                                                                                           |  |
| ATTRIBUTES                                                                       |  |                      |              |                                                                                                                                                                                                |                                     |                               |  |                                                                                                                                                                                                                                                           |  |
| Length (km): .34                                                                 |  | Gradient: 2.06       |              | Setting: VF                                                                                                                                                                                    |                                     | DISTURBANCE                   |  | O1 B1 B2 B3 D1 D2 D3                                                                                                                                                                                                                                      |  |
| DS Elev.: 717                                                                    |  | Order: 3             |              | Open water: A                                                                                                                                                                                  |                                     | INDICATORS                    |  | <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>                                                                            |  |
| US Elev: 724                                                                     |  | Magnitude: 6         |              | Confinement: UN                                                                                                                                                                                |                                     | C1 C2 C3 C4 C5 S1 S2 S3 S4 S5 |  | <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> |  |
|                                                                                  |  | BGC Zone: SBS        |              | Coupling: DC                                                                                                                                                                                   |                                     |                               |  | <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> |  |
| Valley Flat: B                                                                   |  | C/D: C               |              | Islands: N                                                                                                                                                                                     |                                     |                               |  |                                                                                                                                                                                                                                                           |  |
| Active Floodplain Visible: <input type="checkbox"/>                              |  | Est. Width:          |              | Bars: <input checked="" type="checkbox"/> N <input type="checkbox"/> SIDE <input type="checkbox"/> DIAG <input type="checkbox"/> MID <input type="checkbox"/> SPAN <input type="checkbox"/> BR |                                     |                               |  |                                                                                                                                                                                                                                                           |  |
| Channel Pattern: IR                                                              |  |                      |              | Mass Movement: L                                                                                                                                                                               |                                     | Exposed/Eroded: NV            |  |                                                                                                                                                                                                                                                           |  |
|                                                                                  |  |                      |              | Riparian Veg.: S                                                                                                                                                                               |                                     | Landuse: NO                   |  |                                                                                                                                                                                                                                                           |  |

| MAPS     |          |      |
|----------|----------|------|
| Map Type | Map #    | Year |
| TRIM     | 093M.009 | 2006 |

# FDIS Site Card

## 2006 RFFHI Babine L. Tributaries - Re-sampling

Watershed Code: 480-569253-00000-00000-0000-000-000-000-000-000-000

Reach # 2.0 ILP Map # 093M.008 ILP # 10031 Site 105

### PROJECT

Project Name: Babine Lake Face Unit Re-sampling - 2006  
Stream Name (gaz.): BABINE RIVER Project Code: 06-BABL-00015953-2006  
Project Watershed Code: 480-000000-00000-00000-0000-000-000-000-000-000-000

### WATERSHED

Gazetted Name: Local Name: Unnamed Creek  
Watershed Code: 480-569253-00000-00000-0000-000-000-000-000-000-000  
ILP Map #: 093M.008 ILP #: 10031 NID Map #: 093M.009 NID #: 8 Reach #: 2.0 Site #: 105  
Field UTM (Z.E.N): 9.665382.6104153 Method: GP3 Site Lg: 100 Method: GE Access: B  
GIS UTM (Z.E.N): 9.665373.6104168 Ref. Name:  
Date: 2006/07/02 Time: 15:40 Agency: C016 Crew: MJ/JL Fish Crd?: ☐ Incomplete: ☐

### CHANNEL

|                    | Mtd | width | width | width | width | width | width | width | width | width | width | Avg  |            |      |      |    |       |
|--------------------|-----|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|------|------------|------|------|----|-------|
| Channel Width (m): | T   | 1.30  | 0.90  | 0.60  | 1.10  | 0.90  | 0.60  |       |       |       |       | 0.90 | Method I:  | 15.0 | 17.0 | AL | 15.25 |
| Wetted Width (m):  | GE  | 0.00  | 0.00  | 0.00  | 0.00  | 0.00  | 0.00  |       |       |       |       | 0.00 | Method II: | 14.0 | 15.0 | AL |       |
| Pool Depth (m):    | GE  | 0.00  |       |       |       |       |       |       |       |       |       | 0.00 |            |      |      |    |       |

Wb Depth: .2 .3 .3 Avg: 0.27 Method: MS Stage: L ☒ M ☐ H ☐

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

COVER Total: N

| Type:       | SWD                                                                        | LWD                                                                        | B                                                                          | U                                                                          | DP                                                                         | OV                                                                         | IV                                                                         |
|-------------|----------------------------------------------------------------------------|----------------------------------------------------------------------------|----------------------------------------------------------------------------|----------------------------------------------------------------------------|----------------------------------------------------------------------------|----------------------------------------------------------------------------|----------------------------------------------------------------------------|
| Amount:     | N                                                                          | N                                                                          | N                                                                          | N                                                                          | N                                                                          | N                                                                          | N                                                                          |
| Loc: P/S/O: | <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> | <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> | <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> | <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> | <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> | <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> | <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> |

CROWN CLOSURE

1 1-20%

INSTREAM VEG: N ☒ A ☐ M ☐ V ☐

LWD: F DIST: E

LB SHP: V

Texture: F ☒ G ☒ C ☐ B ☐ R ☐ A ☐

RIP: D

STG: MF

RB SHP: V

Texture: F ☒ G ☒ C ☐ B ☐ R ☐ A ☐

RIP: D

STG: MF

### WATER

EMS: Req #: Temp: Method: T3 Cond.: Method: S4  
pH: Method: P4 Turb.: T ☐ M ☐ L ☐ C ☐ Method: GE  
Flood Signs: none Method: GE

### MORPHOLOGY

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

### HABITAT QUALITY

Name Comments  
Other NFH - small, steep and seasonal; wetted during runoff or prolonged rain; no instream cover when watered.

### PHOTOS

| Photo         | Foc Lg | Dir | Comments       |
|---------------|--------|-----|----------------|
| R: DIG F: 863 | STD    | U   | book for scale |
| R: DIG F: 864 | STD    | D   | book for scale |

### COMMENTS

Section

Comments

# FDIS Site Card

## 2006 RFFHI Babine L. Tributaries - Re-sampling

|                                                                      |          | Reach # | ILP Map # | ILP # | Site |
|----------------------------------------------------------------------|----------|---------|-----------|-------|------|
| Watershed Code: 480-569253-00000-00000-0000-0000-000-000-000-000-000 |          | 2.0     | 093M.008  | 10031 | 105  |
| Section                                                              | Comments |         |           |       |      |
| SITE CARD                                                            | S6       |         |           |       |      |



# FDIS Reach Card

## 2006 RFFHI Babine L. Tributaries - Re-sampling

|                                                                      |  |                |                       |                |
|----------------------------------------------------------------------|--|----------------|-----------------------|----------------|
| Watershed Code: 480-569253-00000-00000-0000-0000-000-000-000-000-000 |  | Reach #<br>2.0 | ILP Map #<br>093M.008 | ILP #<br>10031 |
|----------------------------------------------------------------------|--|----------------|-----------------------|----------------|

| PROJECT                                                                      |  |  |  |  |                                     |  |  |  |  |
|------------------------------------------------------------------------------|--|--|--|--|-------------------------------------|--|--|--|--|
| Project Name: Babine Lake Face Unit Re-sampling - 2006                       |  |  |  |  | Project Code: 06-BABL-00015953-2006 |  |  |  |  |
| Stream Name (gaz.): BABINE RIVER                                             |  |  |  |  |                                     |  |  |  |  |
| Project Watershed Code: 480-000000-00000-00000-0000-0000-000-000-000-000-000 |  |  |  |  |                                     |  |  |  |  |

| WATERSHED                                                                  |  |                      |       |              |  |                             |  |                                   |  |
|----------------------------------------------------------------------------|--|----------------------|-------|--------------|--|-----------------------------|--|-----------------------------------|--|
| Reach Watershed Code: 480-569253-00000-00000-0000-0000-000-000-000-000-000 |  |                      |       |              |  |                             |  |                                   |  |
| ILP Map #: 093M.008                                                        |  | ILP #: 10031         |       | Reach #: 2.0 |  | NID Map #: 093M.009         |  | NID #: 20186                      |  |
| Air Photos                                                                 |  |                      | Names |              |  | UTM(Zone/East/North/Method) |  |                                   |  |
| LINE:                                                                      |  | Gaz.:                |       |              |  | 9.666205.6105722            |  | GIS                               |  |
| #:                                                                         |  | Local: Unnamed Creek |       |              |  | Sample Type: B              |  | Wetland: <input type="checkbox"/> |  |

| SURVEY INFO      |  |  |              |  |  |             |  |  |  |
|------------------|--|--|--------------|--|--|-------------|--|--|--|
| Date: 2006/06/20 |  |  | Agency: C016 |  |  | Crew: MJ/JL |  |  |  |

| ATTRIBUTES                                          |  |                 |  |                                                                                                                                                                                                |  |                               |  |                          |                                                                                                                                                                                |
|-----------------------------------------------------|--|-----------------|--|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|-------------------------------|--|--------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Length (km): 1.86                                   |  | Gradient: 15.81 |  | Setting: VW                                                                                                                                                                                    |  | DISTURBANCE INDICATORS        |  | O1                       | B1 B2 B3 D1 D2 D3                                                                                                                                                              |
| DS Elev.: 750                                       |  | Order: 1        |  | Open water: A                                                                                                                                                                                  |  |                               |  | <input type="checkbox"/> | <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> |
| US Elev: 1044                                       |  | Magnitude: 1    |  | Confinement: CO                                                                                                                                                                                |  | C1 C2 C3 C4 C5 S1 S2 S3 S4 S5 |  | <input type="checkbox"/> | <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> |
|                                                     |  | BGC Zone: SBS   |  | Coupling: CO                                                                                                                                                                                   |  |                               |  | <input type="checkbox"/> | <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> |
| Valley Flat: N                                      |  | C/D:            |  | Islands: N                                                                                                                                                                                     |  |                               |  |                          |                                                                                                                                                                                |
| Active Floodplain Visible: <input type="checkbox"/> |  | Est. Width:     |  | Bars: <input checked="" type="checkbox"/> N <input type="checkbox"/> SIDE <input type="checkbox"/> DIAG <input type="checkbox"/> MID <input type="checkbox"/> SPAN <input type="checkbox"/> BR |  |                               |  |                          |                                                                                                                                                                                |
| Channel Pattern: SI                                 |  |                 |  | Mass Movement: L                                                                                                                                                                               |  | Exposed/Eroded: N             |  |                          |                                                                                                                                                                                |
|                                                     |  |                 |  | Riparian Veg.: M                                                                                                                                                                               |  | Landuse: NO                   |  |                          |                                                                                                                                                                                |

| MAPS     |          |      |
|----------|----------|------|
| Map Type | Map #    | Year |
| TRIM     | 093M.008 | 2006 |

# FDIS Site Card

## 2006 RFFHI Babine L. Tributaries - Re-sampling

Watershed Code: 480-563000-00000-00000-0000-000-000-000-000-000-000

Reach # 1.0 ILP Map # 093M.008 ILP # 10032 Site 106

### PROJECT

Project Name: Babine Lake Face Unit Re-sampling - 2006  
Stream Name (gaz.): BABINE RIVER Project Code: 06-BABL-00015953-2006  
Project Watershed Code: 480-000000-00000-00000-0000-000-000-000-000-000-000

### WATERSHED

Gazetted Name: Local Name: Unnamed Creek  
Watershed Code: 480-563000-00000-00000-0000-000-000-000-000-000-000  
ILP Map#: 093M.008 ILP #: 10032 NID Map #: 093M.008 NID #: 9 Reach #: 1.0 Site #: 106  
Field UTM (Z.E.N): 9.664810.6103901 Method: GP3 Site Lg: 100 Method: GE Access: B  
GIS UTM (Z.E.N): 9.664810.6103901 Ref. Name:  
Date: 2006/07/02 Time: 16:20 Agency: C016 Crew: MJ/JL Fish Crd?: ☐ Incomplete: ☐

### CHANNEL

|                    | Mtd | width | width | width | width | width | width | width | width | width | width | Avg  |            | Gadient % | Mtd | Avg  |
|--------------------|-----|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|------|------------|-----------|-----|------|
| Channel Width (m): | T   |       |       |       |       |       |       |       |       |       |       | 0.00 | Method I:  |           | AL  | 0.00 |
| Wetted Width (m):  | T   |       |       |       |       |       |       |       |       |       |       | 0.00 | Method II: |           | AL  |      |
| Pool Depth (m):    | MS  |       |       |       |       |       |       |       |       |       |       | 0.00 |            |           |     |      |

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

COVER Total:

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

CROWN CLOSURE

INSTREAM VEG: N ☐ A ☐ M ☐ V ☐

LWD: DIST:

LB SHP: RB SHP:

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

RIP: RIP:

STG: STG:

### WATER

EMS: Req #: Temp: Method: T3 Cond.: Method: S4  
pH: Method: P4 Turb.: T ☐ M ☐ L ☐ C ☐ Method: GE  
Flood Signs: Method: GE

### MORPHOLOGY

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

### HABITAT QUALITY

Name Comments  
Other NFH - swampy area with squishy ground, no channel, no fluvium - not a stream.

### PHOTOS

| Photo         | Foc Lg | Dir | Comments |
|---------------|--------|-----|----------|
| R: DIG F: 865 | STD    | X   |          |

### COMMENTS

| Section | Comments |
|---------|----------|
|         |          |



# FDIS Site Card

## 2006 RFFHI Babine L. Tributaries - Re-sampling

|                                                                      |          | Reach # | ILP Map # | ILP # | Site |
|----------------------------------------------------------------------|----------|---------|-----------|-------|------|
| Watershed Code: 480-563000-00000-00000-0000-0000-000-000-000-000-000 |          | 1.0     | 093M.008  | 10032 | 106  |
| C O M M E N T S                                                      |          |         |           |       |      |
| Section                                                              | Comments |         |           |       |      |
| SITE CARD                                                            | NCD      |         |           |       |      |





# FDIS Reach Card

## 2006 RFFHI Babine L. Tributaries - Re-sampling

|                                                                      |  |                |                       |                |
|----------------------------------------------------------------------|--|----------------|-----------------------|----------------|
| Watershed Code: 480-563000-00000-00000-0000-0000-000-000-000-000-000 |  | Reach #<br>1.0 | ILP Map #<br>093M.008 | ILP #<br>10032 |
|----------------------------------------------------------------------|--|----------------|-----------------------|----------------|

| PROJECT                                                                      |  |  |  |  |                                     |  |  |  |  |
|------------------------------------------------------------------------------|--|--|--|--|-------------------------------------|--|--|--|--|
| Project Name: Babine Lake Face Unit Re-sampling - 2006                       |  |  |  |  | Project Code: 06-BABL-00015953-2006 |  |  |  |  |
| Stream Name (gaz.): BABINE RIVER                                             |  |  |  |  |                                     |  |  |  |  |
| Project Watershed Code: 480-000000-00000-00000-0000-0000-000-000-000-000-000 |  |  |  |  |                                     |  |  |  |  |

| WATERSHED                                                                  |  |                      |       |              |  |                             |  |                                   |  |
|----------------------------------------------------------------------------|--|----------------------|-------|--------------|--|-----------------------------|--|-----------------------------------|--|
| Reach Watershed Code: 480-563000-00000-00000-0000-0000-000-000-000-000-000 |  |                      |       |              |  |                             |  |                                   |  |
| ILP Map #: 093M.008                                                        |  | ILP #: 10032         |       | Reach #: 1.0 |  | NID Map #: 093M.008         |  | NID #: 20187                      |  |
| Air Photos                                                                 |  |                      | Names |              |  | UTM(Zone/East/North/Method) |  |                                   |  |
| LINE:                                                                      |  | Gaz.:                |       |              |  | 9.664884.6104178            |  | GIS                               |  |
| #:                                                                         |  | Local: Unnamed Creek |       |              |  | Sample Type: B              |  | Wetland: <input type="checkbox"/> |  |

| SURVEY INFO      |  |  |              |  |  |             |  |  |  |
|------------------|--|--|--------------|--|--|-------------|--|--|--|
| Date: 2006/06/20 |  |  | Agency: C141 |  |  | Crew: MJ/JL |  |  |  |

| ATTRIBUTES                                          |  |                |  |                                                                           |  |                               |  |                              |                               |                             |                          |                          |                          |                          |
|-----------------------------------------------------|--|----------------|--|---------------------------------------------------------------------------|--|-------------------------------|--|------------------------------|-------------------------------|-----------------------------|--------------------------|--------------------------|--------------------------|--------------------------|
| Length (km): .44                                    |  | Gradient: 7.05 |  | Setting: VF                                                               |  | DISTURBANCE                   |  | O1                           | B1                            | B2                          | B3                       | D1                       | D2                       | D3                       |
| DS Elev.: 713                                       |  | Order: 1       |  | Open water: A                                                             |  | INDICATORS                    |  | <input type="checkbox"/>     | <input type="checkbox"/>      | <input type="checkbox"/>    | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| US Elev: 744                                        |  | Magnitude: 1   |  | Confinement: FC                                                           |  | C1 C2 C3 C4 C5                |  | S1                           | S2                            | S3                          | S4                       | S5                       |                          |                          |
|                                                     |  | BGC Zone: SBS  |  | Coupling: DC                                                              |  | <input type="checkbox"/>      |  | <input type="checkbox"/>     | <input type="checkbox"/>      | <input type="checkbox"/>    | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| Valley Flat: B                                      |  | C/D: C         |  | Islands: N                                                                |  |                               |  |                              |                               |                             |                          |                          |                          |                          |
| Active Floodplain Visible: <input type="checkbox"/> |  | Est. Width:    |  | Bars: <input checked="" type="checkbox"/> N <input type="checkbox"/> SIDE |  | <input type="checkbox"/> DIAG |  | <input type="checkbox"/> MID | <input type="checkbox"/> SPAN | <input type="checkbox"/> BR |                          |                          |                          |                          |
| Channel Pattern: SI                                 |  |                |  | Mass Movement: L                                                          |  | Exposed/Eroded: N             |  | Landuse: NO                  |                               |                             |                          |                          |                          |                          |
|                                                     |  |                |  | Riparian Veg.: M                                                          |  |                               |  |                              |                               |                             |                          |                          |                          |                          |

| MAPS     |          |      |
|----------|----------|------|
| Map Type | Map #    | Year |
| TRIM     | 093M.008 | 2006 |

# FDIS Site Card

## 2006 RFFHI Babine L. Tributaries - Re-sampling

Watershed Code: 480-561100-00000-00000-0000-0000-000-000-000-000-000

|         |           |       |      |
|---------|-----------|-------|------|
| Reach # | ILP Map # | ILP # | Site |
| 1.0     | 093M.008  | 10034 | 107  |

### PROJECT

|                                                                              |                                     |
|------------------------------------------------------------------------------|-------------------------------------|
| Project Name: Babine Lake Face Unit Re-sampling - 2006                       | Project Code: 06-BABL-00015953-2006 |
| Stream Name (gaz.): BABINE RIVER                                             |                                     |
| Project Watershed Code: 480-000000-00000-00000-0000-0000-000-000-000-000-000 |                                     |

### WATERSHED

|                                                                      |                           |                     |             |                                     |                                      |
|----------------------------------------------------------------------|---------------------------|---------------------|-------------|-------------------------------------|--------------------------------------|
| Gazetted Name:                                                       | Local Name: Unnamed Creek |                     |             |                                     |                                      |
| Watershed Code: 480-561100-00000-00000-0000-0000-000-000-000-000-000 |                           |                     |             |                                     |                                      |
| ILP Map#: 093M.008                                                   | ILP #: 10034              | NID Map #: 093M.008 | NID #: 7    | Reach #: 1.0                        | Site #: 107                          |
| Field UTM (Z.E.N): 9.664083.6103760                                  | Method: GP3               | Site Lg: 150        | Method: NS  | Access: B                           |                                      |
| GIS UTM (Z.E.N): 9.664045.6103788                                    | Ref. Name:                |                     |             |                                     |                                      |
| Date: 2006/07/02                                                     | Time: 14:30               | Agency: C016        | Crew: MJ/JL | Fish Crd?: <input type="checkbox"/> | Incomplete: <input type="checkbox"/> |

### CHANNEL

|                    |     |       |       |       |       |       |       |       |       |       |       |      |            |           |     |     |      |
|--------------------|-----|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|------|------------|-----------|-----|-----|------|
|                    | Mtd | width | width | width | width | width | width | width | width | width | width | Avg  |            | Gadient % | Mtd | Avg |      |
| Channel Width (m): | T   |       |       |       |       |       |       |       |       |       |       | 0.00 | Method I:  | 1.0       | 3.0 | AL  | 2.67 |
| Wetted Width (m):  | T   |       |       |       |       |       |       |       |       |       |       | 0.00 | Method II: | 4.0       |     | AL  |      |
| Pool Depth (m):    | MS  |       |       |       |       |       |       |       |       |       |       | 0.00 |            |           |     |     |      |

|           |  |  |  |           |            |                                                                                         |                                                                                        |                                                               |
|-----------|--|--|--|-----------|------------|-----------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------|---------------------------------------------------------------|
| Wb Depth: |  |  |  | Avg: 0.00 | Method: MS | Stage: L <input type="checkbox"/> M <input type="checkbox"/> H <input type="checkbox"/> | No Vis.Ch.: <input checked="" type="checkbox"/> Intermittent: <input type="checkbox"/> | Dw: <input type="checkbox"/> Tribs.: <input type="checkbox"/> |
|-----------|--|--|--|-----------|------------|-----------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------|---------------------------------------------------------------|

|             |                                                                            |                                                                            |                                                                            |                                                                            |                                                                            |                                                                            |                                                                            |
|-------------|----------------------------------------------------------------------------|----------------------------------------------------------------------------|----------------------------------------------------------------------------|----------------------------------------------------------------------------|----------------------------------------------------------------------------|----------------------------------------------------------------------------|----------------------------------------------------------------------------|
| COVER       | Total:                                                                     |                                                                            |                                                                            |                                                                            |                                                                            |                                                                            |                                                                            |
| Type:       | SWD                                                                        | LWD                                                                        | B                                                                          | U                                                                          | DP                                                                         | OV                                                                         | IV                                                                         |
| Amount:     |                                                                            |                                                                            |                                                                            |                                                                            |                                                                            |                                                                            |                                                                            |
| Loc: P/S/O: | <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> | <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> | <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> | <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> | <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> | <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> | <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> |

|                                                                                                                                                                            |                                                                                                                                                                            |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| LWD:                                                                                                                                                                       | DIST:                                                                                                                                                                      |
| LB SHP:                                                                                                                                                                    | RB SHP:                                                                                                                                                                    |
| Texture: F <input type="checkbox"/> G <input type="checkbox"/> C <input type="checkbox"/> B <input type="checkbox"/> R <input type="checkbox"/> A <input type="checkbox"/> | Texture: F <input type="checkbox"/> G <input type="checkbox"/> C <input type="checkbox"/> B <input type="checkbox"/> R <input type="checkbox"/> A <input type="checkbox"/> |
| RIP:                                                                                                                                                                       | RIP:                                                                                                                                                                       |
| STG:                                                                                                                                                                       | STG:                                                                                                                                                                       |

|                                                                                                                           |
|---------------------------------------------------------------------------------------------------------------------------|
| CROWN CLOSURE                                                                                                             |
| INSTREAM VEG: N <input type="checkbox"/> A <input type="checkbox"/> M <input type="checkbox"/> V <input type="checkbox"/> |

### WATER

|              |            |                                                                                                                    |            |
|--------------|------------|--------------------------------------------------------------------------------------------------------------------|------------|
| EMS:         | Method: T3 | Req #:                                                                                                             | Method: S4 |
| Temp:        | Method: P4 | Cond.:                                                                                                             | Method: GE |
| pH:          | Method: GE | Turb.: T <input type="checkbox"/> M <input type="checkbox"/> L <input type="checkbox"/> C <input type="checkbox"/> |            |
| Flood Signs: |            |                                                                                                                    |            |

### MORPHOLOGY

|                               |           |         |                                  |                               |                               |                              |                               |                             |                          |                          |                          |                          |
|-------------------------------|-----------|---------|----------------------------------|-------------------------------|-------------------------------|------------------------------|-------------------------------|-----------------------------|--------------------------|--------------------------|--------------------------|--------------------------|
| Bed Material:                 | Dominant: | Subdom: | O1                               | B1                            | B2                            | B3                           | D1                            | D2                          | D3                       |                          |                          |                          |
| D95:                          | D (cm):   | Morph:  | <input type="checkbox"/>         | <input type="checkbox"/>      | <input type="checkbox"/>      | <input type="checkbox"/>     | <input type="checkbox"/>      | <input type="checkbox"/>    | <input type="checkbox"/> |                          |                          |                          |
| Pattern:                      |           |         | C1                               | C2                            | C3                            | C4                           | C5                            | S1                          | S2                       | S3                       | S4                       | S5                       |
| Islands:                      |           |         | <input type="checkbox"/>         | <input type="checkbox"/>      | <input type="checkbox"/>      | <input type="checkbox"/>     | <input type="checkbox"/>      | <input type="checkbox"/>    | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| Coupling:                     |           |         |                                  |                               |                               |                              |                               |                             |                          |                          |                          |                          |
| Confinement:                  |           |         |                                  |                               |                               |                              |                               |                             |                          |                          |                          |                          |
| FSZ: <input type="checkbox"/> |           |         | Bars: N <input type="checkbox"/> | SIDE <input type="checkbox"/> | DIAG <input type="checkbox"/> | MID <input type="checkbox"/> | SPAN <input type="checkbox"/> | BR <input type="checkbox"/> |                          |                          |                          |                          |

### FEATURES

|          |     |      |     |        |    |        |                  |          |                  |        |
|----------|-----|------|-----|--------|----|--------|------------------|----------|------------------|--------|
| NID Map  | NID | Type | Hgt | Method | Lg | Method | Photo            | AirPhoto | UTM (Z/E/N)      | Method |
| 093M.008 | 701 | FSB  |     | HC     | 40 | HC     | R: DIG F: 857 L: | #:       | 9.664041.6103806 | GIS    |

Comments: 25 m u/s from mouth

### HABITAT QUALITY

|       |                                                                                                                              |
|-------|------------------------------------------------------------------------------------------------------------------------------|
| Name  | Comments                                                                                                                     |
| Other | NFH - seepage through a small (3m high and 5m wide gully). No scoured channel, no fluvium, not a stream. Impassable to fish. |

### PHOTOS

# FDIS Site Card

## 2006 RFFHI Babine L. Tributaries - Re-sampling

Watershed Code: 480-561100-00000-00000-0000-000-000-000-000-000

|         |           |       |      |
|---------|-----------|-------|------|
| Reach # | ILP Map # | ILP # | Site |
| 1.0     | 093M.008  | 10034 | 107  |

| Photo           |        | Foc Lg                                                                    | Dir | Comments       |
|-----------------|--------|---------------------------------------------------------------------------|-----|----------------|
| R: DIG          | F: 857 | STD                                                                       | U   | feature        |
| R: DIG          | F: 861 | STD                                                                       | U   | book for scale |
| R: DIG          | F: 862 | STD                                                                       | D   | book for scale |
| C O M M E N T S |        |                                                                           |     |                |
| Section         |        | Comments                                                                  |     |                |
| SITE CARD       |        | NCD                                                                       |     |                |
| SITE CARD       |        | Original site info contains data contradictory to resampling survey data. |     |                |
| SITE CARD       |        | Surveyed drainage from mouth for 150m.                                    |     |                |
| SITE CARD       |        | Site from "mouth"                                                         |     |                |



# FDIS Reach Card

## 2006 RFFHI Babine L. Tributaries - Re-sampling

|                                                                                                                                                                                                                                                                     |          |                |                       |                |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------|----------------|-----------------------|----------------|
| Watershed Code: 480-561100-00000-00000-0000-0000-000-000-000-000-000-000                                                                                                                                                                                            |          | Reach #<br>1.0 | ILP Map #<br>093M.008 | ILP #<br>10034 |
| PROJECT                                                                                                                                                                                                                                                             |          |                |                       |                |
| Project Name: Babine Lake Face Unit Re-sampling - 2006<br>Stream Name (gaz.): BABINE RIVER<br>Project Watershed Code: 480-000000-00000-00000-0000-0000-000-000-000-000-000-000                                                                                      |          |                |                       |                |
| Project Code: 06-BABL-00015953-2006                                                                                                                                                                                                                                 |          |                |                       |                |
| WATERSHED                                                                                                                                                                                                                                                           |          |                |                       |                |
| Reach Watershed Code: 480-561100-00000-00000-0000-0000-000-000-000-000-000-000                                                                                                                                                                                      |          |                |                       |                |
| ILP Map #: 093M.008      ILP #: 10034      Reach #: 1.0      NID Map #: 093M.008      NID #: 20191                                                                                                                                                                  |          |                |                       |                |
| Air Photos      Names      UTM(Zone/East/North/Method)                                                                                                                                                                                                              |          |                |                       |                |
| LINE:      Gaz.:      9.664067.6104660      GIS                                                                                                                                                                                                                     |          |                |                       |                |
| #:      Local: Unnamed Creek      Sample Type: B      Wetland: <input type="checkbox"/>                                                                                                                                                                             |          |                |                       |                |
| SURVEY INFO                                                                                                                                                                                                                                                         |          |                |                       |                |
| Date: 2006/06/20      Agency: C016      Crew: MJ/JL                                                                                                                                                                                                                 |          |                |                       |                |
| ATTRIBUTES                                                                                                                                                                                                                                                          |          |                |                       |                |
| Length (km): .91      Gradient: 7.03      Setting: VW      DISTURBANCE INDICATORS      O1      B1      B2      B3      D1      D2      D3                                                                                                                           |          |                |                       |                |
| DS Elev.: 716      Order: 3      Open water: A <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>                                       |          |                |                       |                |
| US Elev: 780      Magnitude: 6      Confinement: FC      C1      C2      C3      C4      C5      S1      S2      S3      S4      S5                                                                                                                                 |          |                |                       |                |
| BGC Zone: SBS      Coupling: DC <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>    |          |                |                       |                |
| Valley Flat: N      C/D:      Islands: N                                                                                                                                                                                                                            |          |                |                       |                |
| Active Floodplain Visible: <input type="checkbox"/> Est. Width:      Bars: <input checked="" type="checkbox"/> N <input type="checkbox"/> SIDE <input type="checkbox"/> DIAG <input type="checkbox"/> MID <input type="checkbox"/> SPAN <input type="checkbox"/> BR |          |                |                       |                |
| Channel Pattern: SI      Mass Movement: M      Exposed/Eroded: NV                                                                                                                                                                                                   |          |                |                       |                |
| Riparian Veg.: D      Landuse: NO                                                                                                                                                                                                                                   |          |                |                       |                |
| MAPS                                                                                                                                                                                                                                                                |          |                |                       |                |
| Map Type                                                                                                                                                                                                                                                            | Map #    | Year           |                       |                |
| TRIM                                                                                                                                                                                                                                                                | 093M.008 | 2006           |                       |                |

# FDIS Site Card

## 2006 RFFHI Babine L. Tributaries - Re-sampling

Watershed Code: 480-598500-34896-00000-00000-0000-000-000-000-000-000

Reach # 1.0 ILP Map # 093M.019 ILP # 10132 Site 108

### PROJECT

Project Name: Babine Lake Face Unit Re-sampling - 2006  
Stream Name (gaz.): BABINE RIVER Project Code: 06-BABL-00015953-2006  
Project Watershed Code: 480-000000-00000-00000-00000-0000-000-000-000-000-000

### WATERSHED

Gazetted Name: Local Name: Unnamed Creek  
Watershed Code: 480-598500-34896-00000-00000-00000-0000-000-000-000-000-000  
ILP Map #: 093M.019 ILP #: 10132 NID Map #: 093M.019 NID #: 16 Reach #: 1.0 Site #: 108  
Field UTM (Z.E.N): 9.669357.6114543 Method: GP3 Site Lg: 100 Method: NS Access: FT  
GIS UTM (Z.E.N): 9.669333.6114525 Ref. Name:  
Date: 2006/08/01 Time: 15:30 Agency: C016 Crew: MJ/JL Fish Crd?: ☐ Incomplete: ☐

### CHANNEL

|                    | Mtd | width | width | width | width | width | width | width | width | width | width | Avg  |            | Gadient % | Mtd | Avg  |
|--------------------|-----|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|------|------------|-----------|-----|------|
| Channel Width (m): | T   |       |       |       |       |       |       |       |       |       |       | 0.00 | Method I:  |           | AL  | 0.00 |
| Wetted Width (m):  | T   |       |       |       |       |       |       |       |       |       |       | 0.00 | Method II: |           | AL  |      |
| Pool Depth (m):    | MS  |       |       |       |       |       |       |       |       |       |       | 0.00 |            |           |     |      |

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

COVER Total:

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

CROWN CLOSURE

INSTREAM VEG: N ☐ A ☐ M ☐ V ☐

LWD: DIST:

LB SHP: RB SHP:

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

RIP: RIP:

STG: STG:

### WATER

EMS: Req #: Temp: Method: T3 Cond.: Method: S4  
pH: Method: P4 Turb.: T ☐ M ☐ L ☐ C ☐ Method: GE  
Flood Signs: Method: GE

### MORPHOLOGY

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

### HABITAT QUALITY

Name Comments  
Other NFH - meltwater runoff; no scoured channel, no fluvium, not a stream.

### PHOTOS

| Photo         | Foc Lg | Dir | Comments        |
|---------------|--------|-----|-----------------|
| R: DIG F: 958 | STD    | U   | probe for scale |
| R: DIG F: 959 | STD    | D   | probe for scale |

### COMMENTS

Section

Comments



# FDIS Site Card

## 2006 RFFHI Babine L. Tributaries - Re-sampling

|                                                                      |                                                             | Reach # | ILP Map # | ILP # | Site |
|----------------------------------------------------------------------|-------------------------------------------------------------|---------|-----------|-------|------|
| Watershed Code: 480-598500-34896-00000-0000-0000-000-000-000-000-000 |                                                             | 1.0     | 093M.019  | 10132 | 108  |
| Section                                                              | Comments                                                    |         |           |       |      |
| SITE CARD                                                            | NCD                                                         |         |           |       |      |
| SITE CARD                                                            | stream substituted for ILP 10018 R4 due to impassable road. |         |           |       |      |
| SITE CARD                                                            | site=utm=~100m from "mouth".                                |         |           |       |      |



FDIS Reach Card

2006 RFFHI Babine L. Tributaries - Re-sampling

|                                                                                                                                                                           |  |                |                       |                |                                     |  |  |  |  |                                                                                                                                                                                                |  |  |  |  |                                                                                                                                                                                                                                                           |  |  |  |  |                                                                                                                                                                                                                                                           |  |  |  |  |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|----------------|-----------------------|----------------|-------------------------------------|--|--|--|--|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|--|--|--|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|--|--|--|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|--|--|--|
| Watershed Code: 480-598500-34896-00000-0000-0000-000-000-000-000-000                                                                                                      |  | Reach #<br>1.0 | ILP Map #<br>093M.019 | ILP #<br>10132 |                                     |  |  |  |  |                                                                                                                                                                                                |  |  |  |  |                                                                                                                                                                                                                                                           |  |  |  |  |                                                                                                                                                                                                                                                           |  |  |  |  |
| PROJECT                                                                                                                                                                   |  |                |                       |                |                                     |  |  |  |  |                                                                                                                                                                                                |  |  |  |  |                                                                                                                                                                                                                                                           |  |  |  |  |                                                                                                                                                                                                                                                           |  |  |  |  |
| Project Name: Babine Lake Face Unit Re-sampling - 2006<br>Stream Name (gaz.): BABINE RIVER<br>Project Watershed Code: 480-000000-00000-00000-0000-000-000-000-000-000-000 |  |                |                       |                | Project Code: 06-BABL-00015953-2006 |  |  |  |  |                                                                                                                                                                                                |  |  |  |  |                                                                                                                                                                                                                                                           |  |  |  |  |                                                                                                                                                                                                                                                           |  |  |  |  |
| WATERSHED                                                                                                                                                                 |  |                |                       |                |                                     |  |  |  |  |                                                                                                                                                                                                |  |  |  |  |                                                                                                                                                                                                                                                           |  |  |  |  |                                                                                                                                                                                                                                                           |  |  |  |  |
| Reach Watershed Code: 480-598500-34896-00000-0000-0000-000-000-000-000-000-000                                                                                            |  |                |                       |                | NID Map #: 093M.019                 |  |  |  |  | NID #: 20339                                                                                                                                                                                   |  |  |  |  |                                                                                                                                                                                                                                                           |  |  |  |  |                                                                                                                                                                                                                                                           |  |  |  |  |
| ILP Map #: 093M.019                                                                                                                                                       |  |                |                       |                | ILP #: 10132                        |  |  |  |  | Reach #: 1.0                                                                                                                                                                                   |  |  |  |  |                                                                                                                                                                                                                                                           |  |  |  |  |                                                                                                                                                                                                                                                           |  |  |  |  |
| Air Photos                                                                                                                                                                |  |                |                       |                | Names                               |  |  |  |  | UTM(Zone/East/North/Method)                                                                                                                                                                    |  |  |  |  |                                                                                                                                                                                                                                                           |  |  |  |  |                                                                                                                                                                                                                                                           |  |  |  |  |
| LINE: #:                                                                                                                                                                  |  |                |                       |                | Gaz.: Local: Unnamed Creek          |  |  |  |  | 9.666309.6113526   GIS                                                                                                                                                                         |  |  |  |  |                                                                                                                                                                                                                                                           |  |  |  |  |                                                                                                                                                                                                                                                           |  |  |  |  |
|                                                                                                                                                                           |  |                |                       |                | Sample Type: B                      |  |  |  |  | Wetland: <input type="checkbox"/>                                                                                                                                                              |  |  |  |  |                                                                                                                                                                                                                                                           |  |  |  |  |                                                                                                                                                                                                                                                           |  |  |  |  |
| SURVEY INFO                                                                                                                                                               |  |                |                       |                |                                     |  |  |  |  |                                                                                                                                                                                                |  |  |  |  |                                                                                                                                                                                                                                                           |  |  |  |  |                                                                                                                                                                                                                                                           |  |  |  |  |
| Date: 2006/06/20                                                                                                                                                          |  |                |                       |                | Agency: C016                        |  |  |  |  | Crew: MJ/JL                                                                                                                                                                                    |  |  |  |  |                                                                                                                                                                                                                                                           |  |  |  |  |                                                                                                                                                                                                                                                           |  |  |  |  |
| ATTRIBUTES                                                                                                                                                                |  |                |                       |                |                                     |  |  |  |  |                                                                                                                                                                                                |  |  |  |  |                                                                                                                                                                                                                                                           |  |  |  |  |                                                                                                                                                                                                                                                           |  |  |  |  |
| Length (km): 3.92                                                                                                                                                         |  |                |                       |                | Gradient: 4.41                      |  |  |  |  | Setting: VF                                                                                                                                                                                    |  |  |  |  | DISTURBANCE INDICATORS                                                                                                                                                                                                                                    |  |  |  |  | O1 B1 B2 B3 D1 D2 D3                                                                                                                                                                                                                                      |  |  |  |  |
| DS Elev.: 767                                                                                                                                                             |  |                |                       |                | Order: 2                            |  |  |  |  | Open water: A                                                                                                                                                                                  |  |  |  |  |                                                                                                                                                                                                                                                           |  |  |  |  | <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>                                                                            |  |  |  |  |
| US Elev: 940                                                                                                                                                              |  |                |                       |                | Magnitude: 2                        |  |  |  |  | Confinement: FC                                                                                                                                                                                |  |  |  |  | C1 C2 C3 C4 C5 S1 S2 S3 S4 S5                                                                                                                                                                                                                             |  |  |  |  | <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> |  |  |  |  |
| BGC Zone:                                                                                                                                                                 |  |                |                       |                | Coupling: PC                        |  |  |  |  |                                                                                                                                                                                                |  |  |  |  | <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> |  |  |  |  |                                                                                                                                                                                                                                                           |  |  |  |  |
| Valley Flat: NS                                                                                                                                                           |  |                |                       |                | C/D:                                |  |  |  |  | Islands: N                                                                                                                                                                                     |  |  |  |  |                                                                                                                                                                                                                                                           |  |  |  |  |                                                                                                                                                                                                                                                           |  |  |  |  |
| Active Floodplain Visible: <input type="checkbox"/>                                                                                                                       |  |                |                       |                | Est. Width:                         |  |  |  |  | Bars: <input checked="" type="checkbox"/> N <input type="checkbox"/> SIDE <input type="checkbox"/> DIAG <input type="checkbox"/> MID <input type="checkbox"/> SPAN <input type="checkbox"/> BR |  |  |  |  |                                                                                                                                                                                                                                                           |  |  |  |  |                                                                                                                                                                                                                                                           |  |  |  |  |
| Channel Pattern: SI                                                                                                                                                       |  |                |                       |                |                                     |  |  |  |  | Mass Movement: L                                                                                                                                                                               |  |  |  |  | Exposed/Eroded: N                                                                                                                                                                                                                                         |  |  |  |  |                                                                                                                                                                                                                                                           |  |  |  |  |
|                                                                                                                                                                           |  |                |                       |                |                                     |  |  |  |  | Riparian Veg.: C                                                                                                                                                                               |  |  |  |  | Landuse: OT                                                                                                                                                                                                                                               |  |  |  |  |                                                                                                                                                                                                                                                           |  |  |  |  |
| MAPS                                                                                                                                                                      |  |                |                       |                |                                     |  |  |  |  |                                                                                                                                                                                                |  |  |  |  |                                                                                                                                                                                                                                                           |  |  |  |  |                                                                                                                                                                                                                                                           |  |  |  |  |
| Map Type                                                                                                                                                                  |  | Map #          |                       | Year           |                                     |  |  |  |  |                                                                                                                                                                                                |  |  |  |  |                                                                                                                                                                                                                                                           |  |  |  |  |                                                                                                                                                                                                                                                           |  |  |  |  |
| TRIM                                                                                                                                                                      |  | 093M.019       |                       | 2006           |                                     |  |  |  |  |                                                                                                                                                                                                |  |  |  |  |                                                                                                                                                                                                                                                           |  |  |  |  |                                                                                                                                                                                                                                                           |  |  |  |  |



# FDIS Fish Card

## 2006 RFFHI Babine L. Tributaries - Re-sampling

Watershed Code: 480-472833-00000-00000-0000-000-000-000-000-000-000-000 Reach # 1.0 ILP Map # 093M.028 ILP # 10182

| WATERBODY                                                       |          |       |                          |                                                                      |          |                     |                |                |         |                      |            |              |  |             |        |                                    |  |
|-----------------------------------------------------------------|----------|-------|--------------------------|----------------------------------------------------------------------|----------|---------------------|----------------|----------------|---------|----------------------|------------|--------------|--|-------------|--------|------------------------------------|--|
| Gazetted Name:                                                  |          |       |                          |                                                                      |          |                     |                |                |         | Local: Unnamed Creek |            |              |  |             |        |                                    |  |
| Project Code: 480-000000-00000-00000-0000-000-000-000-000-000-0 |          |       |                          |                                                                      |          |                     |                |                |         |                      |            |              |  |             |        |                                    |  |
| WS Code: 480-472833-00000-00000-0000-000-000-000-000-000-000    |          |       |                          |                                                                      |          |                     |                |                |         |                      |            |              |  |             |        |                                    |  |
| Waterbody ID:                                                   |          |       |                          |                                                                      |          | ILP Map #: 093M.028 |                |                |         | ILP #: 10182         |            | Reach #: 1 - |  |             |        |                                    |  |
| Project ID: 06-BABL-00015953-2006                               |          |       |                          |                                                                      |          | Lake/Stream: S      |                |                |         | Lake From Date:      |            |              |  |             |        |                                    |  |
| Fish Permit #: SM06-24176                                       |          |       |                          | Date: 2006/07/01                                                     |          |                     |                | To: 2006/07/01 |         |                      |            | Agency: C016 |  | Crew: MJ/JL |        | Resample: <input type="checkbox"/> |  |
| SITE / METHOD                                                   |          |       |                          |                                                                      |          |                     |                |                |         |                      |            |              |  |             |        |                                    |  |
| Site#                                                           | NID Map  | NID # | UTM:Zone/East/North/Mthd |                                                                      |          |                     | MTD/NO         |                | Temp    | Cond                 | Turbid     | Comment      |  |             |        |                                    |  |
| 109                                                             | 093M.028 | 4     | 9                        | 655086                                                               | 6120289  | GP3                 | EF             | 1              | 13      | 140                  | C          |              |  |             |        |                                    |  |
| A. GEAR SETTINGS                                                |          |       |                          |                                                                      |          |                     |                |                |         |                      |            |              |  |             |        |                                    |  |
| Site#                                                           | MTD/NO   | H/P   | Date In                  | Time In                                                              | Date Out | Time Out            | Comment        |                |         |                      |            |              |  |             |        |                                    |  |
| 109                                                             | EF       | 1     | 1                        | 2006/07/01                                                           | 15:00    | 2006/07/01          | 15:01          |                |         |                      |            |              |  |             |        |                                    |  |
| C. ELECTROFISHER SPECIFICATIONS                                 |          |       |                          |                                                                      |          |                     |                |                |         |                      |            |              |  |             |        |                                    |  |
| Site#                                                           | MTD/NO   | H/P   | Encl                     | Sec                                                                  | Length   | Width               | Voltage        | Frequency      | Pulse   | Make                 | Model      |              |  |             |        |                                    |  |
| 109                                                             | EF       | 1     | 1                        | O                                                                    | 7        | 20.0                | 2.0            | 400            | 80      | 6                    | SMITH-ROOT | 12 B         |  |             |        |                                    |  |
| FISH SUMMARY                                                    |          |       |                          |                                                                      |          |                     |                |                |         |                      |            |              |  |             |        |                                    |  |
| Site#                                                           | MTD/NO   | H/P   | Species                  | Stage                                                                | Age      | Total #             | Lgth (Min/Max) |                | FishAct | Comment              |            |              |  |             |        |                                    |  |
| 109                                                             | EF       | 1     | 1                        | CO                                                                   | J        | 5                   | 39             | 40             | R       |                      |            |              |  |             |        |                                    |  |
| INDIVIDUAL FISH DATA                                            |          |       |                          |                                                                      |          |                     |                |                |         |                      |            |              |  |             |        |                                    |  |
| Site#                                                           | MTD/NO   | H/P   | Species                  | Length                                                               | Weight   | Sex                 | Mat            | Age            |         |                      | Vch#       | Genetic      |  | Roll #      | Frame# | Comment                            |  |
|                                                                 |          |       |                          |                                                                      |          |                     |                | Str/Smpl#/Age  |         |                      |            | Str/Smpl#    |  |             |        |                                    |  |
| 109                                                             | EF       | 1     | 1                        | CO                                                                   | 39       |                     | U              | U              |         |                      |            |              |  |             |        |                                    |  |
| 109                                                             | EF       | 1     | 1                        | CO                                                                   | 40       | .0                  | U              | U              |         |                      |            |              |  |             |        |                                    |  |
| 109                                                             | EF       | 1     | 1                        | CO                                                                   | 40       | .0                  | U              | U              |         |                      |            |              |  |             |        |                                    |  |
| 109                                                             | EF       | 1     | 1                        | CO                                                                   | 40       | .0                  | U              | U              |         |                      |            |              |  |             |        |                                    |  |
| 109                                                             | EF       | 1     | 1                        | CO                                                                   | 40       | .0                  | U              | U              |         |                      |            |              |  |             |        |                                    |  |
| COMMENTS                                                        |          |       |                          |                                                                      |          |                     |                |                |         |                      |            |              |  |             |        |                                    |  |
| Section                                                         |          |       |                          | Comments                                                             |          |                     |                |                |         |                      |            |              |  |             |        |                                    |  |
| WATERBODY                                                       |          |       |                          | No morphological differences noted than these reported in 1999 data. |          |                     |                |                |         |                      |            |              |  |             |        |                                    |  |
| WATERBODY                                                       |          |       |                          | Stream entirely dry with exception of 1 pool where CO were present.  |          |                     |                |                |         |                      |            |              |  |             |        |                                    |  |

FDIS Reach Card

2006 RFFHI Babine L. Tributaries - Re-sampling

|                                                                      |  |                |                       |                |
|----------------------------------------------------------------------|--|----------------|-----------------------|----------------|
| Watershed Code: 480-472833-00000-00000-0000-0000-000-000-000-000-000 |  | Reach #<br>1.0 | ILP Map #<br>093M.028 | ILP #<br>10182 |
|----------------------------------------------------------------------|--|----------------|-----------------------|----------------|

|                                                                              |  |                                     |  |  |
|------------------------------------------------------------------------------|--|-------------------------------------|--|--|
| PROJECT                                                                      |  |                                     |  |  |
| Project Name: Babine Lake Face Unit Re-sampling - 2006                       |  |                                     |  |  |
| Stream Name (gaz.): BABINE RIVER                                             |  | Project Code: 06-BABL-00015953-2006 |  |  |
| Project Watershed Code: 480-000000-00000-00000-0000-0000-000-000-000-000-000 |  |                                     |  |  |

|                                                                            |                      |                                                  |                             |              |
|----------------------------------------------------------------------------|----------------------|--------------------------------------------------|-----------------------------|--------------|
| WATERSHED                                                                  |                      |                                                  |                             |              |
| Reach Watershed Code: 480-472833-00000-00000-0000-0000-000-000-000-000-000 |                      |                                                  |                             |              |
| ILP Map #: 093M.028                                                        | ILP #: 10182         | Reach #: 1.0                                     | NID Map #: 093M.028         | NID #: 20354 |
| Air Photos                                                                 | Names                |                                                  | UTM(Zone/East/North/Method) |              |
| LINE:                                                                      | Gaz.:                | 9.655314.6120235   GIS                           |                             |              |
| #:                                                                         | Local: Unnamed Creek | Sample Type: B Wetland: <input type="checkbox"/> |                             |              |

|                  |  |              |             |  |
|------------------|--|--------------|-------------|--|
| SURVEY INFO      |  |              |             |  |
| Date: 1999/03/15 |  | Agency: C141 | Crew: ML/LS |  |

|                                                     |                |                                                                                                                                                                                                |                                                                                                                                                                                                     |                          |                          |                          |                          |                          |                          |                          |                          |                          |  |  |
|-----------------------------------------------------|----------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|--|--|
| ATTRIBUTES                                          |                |                                                                                                                                                                                                |                                                                                                                                                                                                     |                          |                          |                          |                          |                          |                          |                          |                          |                          |  |  |
| Length (km): .24                                    | Gradient: 13.1 | Setting: VW                                                                                                                                                                                    | DISTURBANCE INDICATORS                                                                                                                                                                              |                          |                          |                          |                          |                          |                          |                          |                          |                          |  |  |
| DS Elev.: 716                                       | Order: 1       | Open water: A                                                                                                                                                                                  | <input type="checkbox"/> O1 <input type="checkbox"/> B1 <input type="checkbox"/> B2 <input type="checkbox"/> B3 <input type="checkbox"/> D1 <input type="checkbox"/> D2 <input type="checkbox"/> D3 |                          |                          |                          |                          |                          |                          |                          |                          |                          |  |  |
| US Elev: 748                                        | Magnitude: 1   | Confinement: FC                                                                                                                                                                                | C1                                                                                                                                                                                                  | C2                       | C3                       | C4                       | C5                       | S1                       | S2                       | S3                       | S4                       | S5                       |  |  |
|                                                     | BGC Zone: SBS  | Coupling: DC                                                                                                                                                                                   | <input type="checkbox"/>                                                                                                                                                                            | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |  |  |
| Valley Flat: N                                      | C/D:           | Islands: N                                                                                                                                                                                     |                                                                                                                                                                                                     |                          |                          |                          |                          |                          |                          |                          |                          |                          |  |  |
| Active Floodplain Visible: <input type="checkbox"/> | Est. Width:    | Bars: <input checked="" type="checkbox"/> N <input type="checkbox"/> SIDE <input type="checkbox"/> DIAG <input type="checkbox"/> MID <input type="checkbox"/> SPAN <input type="checkbox"/> BR |                                                                                                                                                                                                     |                          |                          |                          |                          |                          |                          |                          |                          |                          |  |  |
| Channel Pattern: SI                                 |                | Mass Movement: M                                                                                                                                                                               | Exposed/Eroded: NV                                                                                                                                                                                  |                          |                          |                          |                          | Landuse: NO              |                          |                          |                          |                          |  |  |
|                                                     |                | Riparian Veg.: M                                                                                                                                                                               |                                                                                                                                                                                                     |                          |                          |                          |                          |                          |                          |                          |                          |                          |  |  |

|          |          |      |
|----------|----------|------|
| MAPS     |          |      |
| Map Type | Map #    | Year |
| TRIM     | 093M.028 | 2006 |

# FDIS Site Card

## 2006 RFFHI Babine L. Tributaries - Re-sampling

Watershed Code: 480-505600-00000-00000-0000-000-000-000-000-000-000

Reach # 1.0 ILP Map # 093M.018 ILP # 10222 Site 110

| PROJECT                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                                                                                              |                                     |                                     |                                     |                                     |                                     |                          |                                                                                                                                                                                                                         |                                                                                                    |                          |       |                                                                                                                                              |     |       |                          |                          |                          |                                                                                         |                                     |                                                                                              |                          |                                                    |                          |                          |                                     |                                     |                                     |                                     |                                     |                                     |                          |                                                                                                                                                                   |  |  |  |  |      |                   |   |      |      |      |      |      |      |  |  |  |  |      |                 |    |      |      |      |      |      |  |  |  |  |  |      |                                                                                                                                                                                                                                                                                                                                       |  |  |  |           |     |     |           |     |     |    |            |  |  |    |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------|-------------------------------------|-------------------------------------|-------------------------------------|-------------------------------------|-------------------------------------|--------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------|--------------------------|-------|----------------------------------------------------------------------------------------------------------------------------------------------|-----|-------|--------------------------|--------------------------|--------------------------|-----------------------------------------------------------------------------------------|-------------------------------------|----------------------------------------------------------------------------------------------|--------------------------|----------------------------------------------------|--------------------------|--------------------------|-------------------------------------|-------------------------------------|-------------------------------------|-------------------------------------|-------------------------------------|-------------------------------------|--------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|--|--|--|------|-------------------|---|------|------|------|------|------|------|--|--|--|--|------|-----------------|----|------|------|------|------|------|--|--|--|--|--|------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|--|--|-----------|-----|-----|-----------|-----|-----|----|------------|--|--|----|
| <div style="display: flex; justify-content: space-between;"> <div> Project Name: Babine Lake Face Unit Re-sampling - 2006<br/> Stream Name (gaz.): BABINE RIVER<br/> Project Watershed Code: 480-000000-00000-00000-0000-000-000-000-000-000-000 </div> <div> Project Code: 06-BABL-00015953-2006 </div> </div>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                                                                                              |                                     |                                     |                                     |                                     |                                     |                          |                                                                                                                                                                                                                         |                                                                                                    |                          |       |                                                                                                                                              |     |       |                          |                          |                          |                                                                                         |                                     |                                                                                              |                          |                                                    |                          |                          |                                     |                                     |                                     |                                     |                                     |                                     |                          |                                                                                                                                                                   |  |  |  |  |      |                   |   |      |      |      |      |      |      |  |  |  |  |      |                 |    |      |      |      |      |      |  |  |  |  |  |      |                                                                                                                                                                                                                                                                                                                                       |  |  |  |           |     |     |           |     |     |    |            |  |  |    |
| WATERSHED                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                                                                                              |                                     |                                     |                                     |                                     |                                     |                          |                                                                                                                                                                                                                         |                                                                                                    |                          |       |                                                                                                                                              |     |       |                          |                          |                          |                                                                                         |                                     |                                                                                              |                          |                                                    |                          |                          |                                     |                                     |                                     |                                     |                                     |                                     |                          |                                                                                                                                                                   |  |  |  |  |      |                   |   |      |      |      |      |      |      |  |  |  |  |      |                 |    |      |      |      |      |      |  |  |  |  |  |      |                                                                                                                                                                                                                                                                                                                                       |  |  |  |           |     |     |           |     |     |    |            |  |  |    |
| Gazetted Name: _____ Local Name: Unnamed Creek<br>Watershed Code: 480-505600-00000-00000-0000-000-000-000-000-000-000<br>ILP Map#: 093M.018 ILP #: 10222 NID Map #: 093M.018 NID #: 5 Reach #: 1.0 Site #: 110<br>Field UTM (Z.E.N): 9.655402.6112492 Method: GP3 Site Lg: 100 Method: GE Access: B<br>GIS UTM (Z.E.N): 9.655454.6112447 Ref. Name: _____<br>Date: 2006/07/02 Time: 08:45 Agency: C016 Crew: MJ/JL Fish Crd?: <input checked="" type="checkbox"/> Incomplete: <input type="checkbox"/>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                                                                                              |                                     |                                     |                                     |                                     |                                     |                          |                                                                                                                                                                                                                         |                                                                                                    |                          |       |                                                                                                                                              |     |       |                          |                          |                          |                                                                                         |                                     |                                                                                              |                          |                                                    |                          |                          |                                     |                                     |                                     |                                     |                                     |                                     |                          |                                                                                                                                                                   |  |  |  |  |      |                   |   |      |      |      |      |      |      |  |  |  |  |      |                 |    |      |      |      |      |      |  |  |  |  |  |      |                                                                                                                                                                                                                                                                                                                                       |  |  |  |           |     |     |           |     |     |    |            |  |  |    |
| CHANNEL                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                                                                                              |                                     |                                     |                                     |                                     |                                     |                          |                                                                                                                                                                                                                         |                                                                                                    |                          |       |                                                                                                                                              |     |       |                          |                          |                          |                                                                                         |                                     |                                                                                              |                          |                                                    |                          |                          |                                     |                                     |                                     |                                     |                                     |                                     |                          |                                                                                                                                                                   |  |  |  |  |      |                   |   |      |      |      |      |      |      |  |  |  |  |      |                 |    |      |      |      |      |      |  |  |  |  |  |      |                                                                                                                                                                                                                                                                                                                                       |  |  |  |           |     |     |           |     |     |    |            |  |  |    |
| <table border="1" style="width:100%; border-collapse: collapse; text-align: center;"> <thead> <tr> <th></th> <th>Mtd</th> <th>width</th> <th>width</th> <th>width</th> <th>width</th> <th>width</th> <th>width</th> <th>width</th> <th>width</th> <th>width</th> <th>width</th> <th>Avg</th> </tr> </thead> <tbody> <tr> <td>Channel Width (m):</td> <td>T</td> <td>1.60</td> <td>1.80</td> <td>1.30</td> <td>1.90</td> <td>1.60</td> <td>1.70</td> <td></td> <td></td> <td></td> <td></td> <td>1.65</td> </tr> <tr> <td>Wetted Width (m):</td> <td>T</td> <td>0.60</td> <td>0.70</td> <td>0.90</td> <td>1.20</td> <td>0.90</td> <td>1.20</td> <td></td> <td></td> <td></td> <td></td> <td>0.92</td> </tr> <tr> <td>Pool Depth (m):</td> <td>MS</td> <td>0.41</td> <td>0.32</td> <td>0.46</td> <td>0.23</td> <td>0.18</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>0.32</td> </tr> </tbody> </table>                                                                                                                                                                                                                                                                                                                                                      |                                                                                              |                                     |                                     |                                     |                                     |                                     |                          |                                                                                                                                                                                                                         |                                                                                                    |                          |       |                                                                                                                                              | Mtd | width | width                    | width                    | width                    | width                                                                                   | width                               | width                                                                                        | width                    | width                                              | width                    | Avg                      | Channel Width (m):                  | T                                   | 1.60                                | 1.80                                | 1.30                                | 1.90                                | 1.60                     | 1.70                                                                                                                                                              |  |  |  |  | 1.65 | Wetted Width (m): | T | 0.60 | 0.70 | 0.90 | 1.20 | 0.90 | 1.20 |  |  |  |  | 0.92 | Pool Depth (m): | MS | 0.41 | 0.32 | 0.46 | 0.23 | 0.18 |  |  |  |  |  | 0.32 | <table border="1" style="width:100%; border-collapse: collapse; text-align: center;"> <thead> <tr> <th></th> <th>Gadient %</th> <th>Mtd</th> <th>Avg</th> </tr> </thead> <tbody> <tr> <td>Method I:</td> <td>3.0</td> <td>4.0</td> <td>AL</td> </tr> <tr> <td>Method II:</td> <td></td> <td></td> <td>AL</td> </tr> </tbody> </table> |  |  |  | Gadient % | Mtd | Avg | Method I: | 3.0 | 4.0 | AL | Method II: |  |  | AL |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | Mtd                                                                                          | width                               | width                               | width                               | width                               | width                               | width                    | width                                                                                                                                                                                                                   | width                                                                                              | width                    | width | Avg                                                                                                                                          |     |       |                          |                          |                          |                                                                                         |                                     |                                                                                              |                          |                                                    |                          |                          |                                     |                                     |                                     |                                     |                                     |                                     |                          |                                                                                                                                                                   |  |  |  |  |      |                   |   |      |      |      |      |      |      |  |  |  |  |      |                 |    |      |      |      |      |      |  |  |  |  |  |      |                                                                                                                                                                                                                                                                                                                                       |  |  |  |           |     |     |           |     |     |    |            |  |  |    |
| Channel Width (m):                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | T                                                                                            | 1.60                                | 1.80                                | 1.30                                | 1.90                                | 1.60                                | 1.70                     |                                                                                                                                                                                                                         |                                                                                                    |                          |       | 1.65                                                                                                                                         |     |       |                          |                          |                          |                                                                                         |                                     |                                                                                              |                          |                                                    |                          |                          |                                     |                                     |                                     |                                     |                                     |                                     |                          |                                                                                                                                                                   |  |  |  |  |      |                   |   |      |      |      |      |      |      |  |  |  |  |      |                 |    |      |      |      |      |      |  |  |  |  |  |      |                                                                                                                                                                                                                                                                                                                                       |  |  |  |           |     |     |           |     |     |    |            |  |  |    |
| Wetted Width (m):                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | T                                                                                            | 0.60                                | 0.70                                | 0.90                                | 1.20                                | 0.90                                | 1.20                     |                                                                                                                                                                                                                         |                                                                                                    |                          |       | 0.92                                                                                                                                         |     |       |                          |                          |                          |                                                                                         |                                     |                                                                                              |                          |                                                    |                          |                          |                                     |                                     |                                     |                                     |                                     |                                     |                          |                                                                                                                                                                   |  |  |  |  |      |                   |   |      |      |      |      |      |      |  |  |  |  |      |                 |    |      |      |      |      |      |  |  |  |  |  |      |                                                                                                                                                                                                                                                                                                                                       |  |  |  |           |     |     |           |     |     |    |            |  |  |    |
| Pool Depth (m):                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | MS                                                                                           | 0.41                                | 0.32                                | 0.46                                | 0.23                                | 0.18                                |                          |                                                                                                                                                                                                                         |                                                                                                    |                          |       | 0.32                                                                                                                                         |     |       |                          |                          |                          |                                                                                         |                                     |                                                                                              |                          |                                                    |                          |                          |                                     |                                     |                                     |                                     |                                     |                                     |                          |                                                                                                                                                                   |  |  |  |  |      |                   |   |      |      |      |      |      |      |  |  |  |  |      |                 |    |      |      |      |      |      |  |  |  |  |  |      |                                                                                                                                                                                                                                                                                                                                       |  |  |  |           |     |     |           |     |     |    |            |  |  |    |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | Gadient %                                                                                    | Mtd                                 | Avg                                 |                                     |                                     |                                     |                          |                                                                                                                                                                                                                         |                                                                                                    |                          |       |                                                                                                                                              |     |       |                          |                          |                          |                                                                                         |                                     |                                                                                              |                          |                                                    |                          |                          |                                     |                                     |                                     |                                     |                                     |                                     |                          |                                                                                                                                                                   |  |  |  |  |      |                   |   |      |      |      |      |      |      |  |  |  |  |      |                 |    |      |      |      |      |      |  |  |  |  |  |      |                                                                                                                                                                                                                                                                                                                                       |  |  |  |           |     |     |           |     |     |    |            |  |  |    |
| Method I:                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | 3.0                                                                                          | 4.0                                 | AL                                  |                                     |                                     |                                     |                          |                                                                                                                                                                                                                         |                                                                                                    |                          |       |                                                                                                                                              |     |       |                          |                          |                          |                                                                                         |                                     |                                                                                              |                          |                                                    |                          |                          |                                     |                                     |                                     |                                     |                                     |                                     |                          |                                                                                                                                                                   |  |  |  |  |      |                   |   |      |      |      |      |      |      |  |  |  |  |      |                 |    |      |      |      |      |      |  |  |  |  |  |      |                                                                                                                                                                                                                                                                                                                                       |  |  |  |           |     |     |           |     |     |    |            |  |  |    |
| Method II:                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                                                                                              |                                     | AL                                  |                                     |                                     |                                     |                          |                                                                                                                                                                                                                         |                                                                                                    |                          |       |                                                                                                                                              |     |       |                          |                          |                          |                                                                                         |                                     |                                                                                              |                          |                                                    |                          |                          |                                     |                                     |                                     |                                     |                                     |                                     |                          |                                                                                                                                                                   |  |  |  |  |      |                   |   |      |      |      |      |      |      |  |  |  |  |      |                 |    |      |      |      |      |      |  |  |  |  |  |      |                                                                                                                                                                                                                                                                                                                                       |  |  |  |           |     |     |           |     |     |    |            |  |  |    |
| Wb Depth: <table border="1" style="display: inline-table; text-align: center;"><tr><td>.3</td><td>.3</td><td>.3</td></tr></table>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                                                                                              | .3                                  | .3                                  | .3                                  | Avg: 0.30                           |                                     | Method: T                |                                                                                                                                                                                                                         | Stage: L <input checked="" type="checkbox"/> M <input type="checkbox"/> H <input type="checkbox"/> |                          |       | No Vis.Ch.: <input type="checkbox"/> Intermittent: <input type="checkbox"/><br>Dw: <input type="checkbox"/> Tribs.: <input type="checkbox"/> |     |       |                          |                          |                          |                                                                                         |                                     |                                                                                              |                          |                                                    |                          |                          |                                     |                                     |                                     |                                     |                                     |                                     |                          |                                                                                                                                                                   |  |  |  |  |      |                   |   |      |      |      |      |      |      |  |  |  |  |      |                 |    |      |      |      |      |      |  |  |  |  |  |      |                                                                                                                                                                                                                                                                                                                                       |  |  |  |           |     |     |           |     |     |    |            |  |  |    |
| .3                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | .3                                                                                           | .3                                  |                                     |                                     |                                     |                                     |                          |                                                                                                                                                                                                                         |                                                                                                    |                          |       |                                                                                                                                              |     |       |                          |                          |                          |                                                                                         |                                     |                                                                                              |                          |                                                    |                          |                          |                                     |                                     |                                     |                                     |                                     |                                     |                          |                                                                                                                                                                   |  |  |  |  |      |                   |   |      |      |      |      |      |      |  |  |  |  |      |                 |    |      |      |      |      |      |  |  |  |  |  |      |                                                                                                                                                                                                                                                                                                                                       |  |  |  |           |     |     |           |     |     |    |            |  |  |    |
| COVER <span style="float: right;">Total: A</span>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                                                                                              |                                     |                                     |                                     |                                     |                                     |                          |                                                                                                                                                                                                                         |                                                                                                    |                          |       |                                                                                                                                              |     |       |                          |                          |                          |                                                                                         |                                     |                                                                                              |                          |                                                    |                          |                          |                                     |                                     |                                     |                                     |                                     |                                     |                          |                                                                                                                                                                   |  |  |  |  |      |                   |   |      |      |      |      |      |      |  |  |  |  |      |                 |    |      |      |      |      |      |  |  |  |  |  |      |                                                                                                                                                                                                                                                                                                                                       |  |  |  |           |     |     |           |     |     |    |            |  |  |    |
| <table border="1" style="width:100%; border-collapse: collapse; text-align: center;"> <thead> <tr> <th>Type:</th> <th>SWD</th> <th>LWD</th> <th>B</th> <th>U</th> <th>DP</th> <th>OV</th> <th>IV</th> </tr> </thead> <tbody> <tr> <td>Amount:</td> <td>T</td> <td>T</td> <td>T</td> <td>D</td> <td>S</td> <td>S</td> <td>N</td> </tr> <tr> <td>Loc: P/S/O:</td> <td><input checked="" type="checkbox"/></td> <td><input checked="" type="checkbox"/></td> <td><input checked="" type="checkbox"/></td> <td><input checked="" type="checkbox"/></td> <td><input checked="" type="checkbox"/></td> <td><input checked="" type="checkbox"/></td> <td><input type="checkbox"/></td> </tr> </tbody> </table>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                                                                                              |                                     |                                     |                                     |                                     |                                     |                          | Type:                                                                                                                                                                                                                   | SWD                                                                                                | LWD                      | B     | U                                                                                                                                            | DP  | OV    | IV                       | Amount:                  | T                        | T                                                                                       | T                                   | D                                                                                            | S                        | S                                                  | N                        | Loc: P/S/O:              | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | CROWN CLOSURE<br>3 41-70%<br>INSTREAM VEG: N <input checked="" type="checkbox"/> A <input type="checkbox"/> M <input type="checkbox"/> V <input type="checkbox"/> |  |  |  |  |      |                   |   |      |      |      |      |      |      |  |  |  |  |      |                 |    |      |      |      |      |      |  |  |  |  |  |      |                                                                                                                                                                                                                                                                                                                                       |  |  |  |           |     |     |           |     |     |    |            |  |  |    |
| Type:                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | SWD                                                                                          | LWD                                 | B                                   | U                                   | DP                                  | OV                                  | IV                       |                                                                                                                                                                                                                         |                                                                                                    |                          |       |                                                                                                                                              |     |       |                          |                          |                          |                                                                                         |                                     |                                                                                              |                          |                                                    |                          |                          |                                     |                                     |                                     |                                     |                                     |                                     |                          |                                                                                                                                                                   |  |  |  |  |      |                   |   |      |      |      |      |      |      |  |  |  |  |      |                 |    |      |      |      |      |      |  |  |  |  |  |      |                                                                                                                                                                                                                                                                                                                                       |  |  |  |           |     |     |           |     |     |    |            |  |  |    |
| Amount:                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | T                                                                                            | T                                   | T                                   | D                                   | S                                   | S                                   | N                        |                                                                                                                                                                                                                         |                                                                                                    |                          |       |                                                                                                                                              |     |       |                          |                          |                          |                                                                                         |                                     |                                                                                              |                          |                                                    |                          |                          |                                     |                                     |                                     |                                     |                                     |                                     |                          |                                                                                                                                                                   |  |  |  |  |      |                   |   |      |      |      |      |      |      |  |  |  |  |      |                 |    |      |      |      |      |      |  |  |  |  |  |      |                                                                                                                                                                                                                                                                                                                                       |  |  |  |           |     |     |           |     |     |    |            |  |  |    |
| Loc: P/S/O:                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | <input checked="" type="checkbox"/>                                                          | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> |                                                                                                                                                                                                                         |                                                                                                    |                          |       |                                                                                                                                              |     |       |                          |                          |                          |                                                                                         |                                     |                                                                                              |                          |                                                    |                          |                          |                                     |                                     |                                     |                                     |                                     |                                     |                          |                                                                                                                                                                   |  |  |  |  |      |                   |   |      |      |      |      |      |      |  |  |  |  |      |                 |    |      |      |      |      |      |  |  |  |  |  |      |                                                                                                                                                                                                                                                                                                                                       |  |  |  |           |     |     |           |     |     |    |            |  |  |    |
| LWD: F DIST: E<br>LB SHP: V<br>Texture: F <input checked="" type="checkbox"/> G <input type="checkbox"/> C <input type="checkbox"/> B <input type="checkbox"/> R <input type="checkbox"/> A <input type="checkbox"/><br>RIP: S<br>STG: NA                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                                                                                              |                                     |                                     |                                     |                                     |                                     |                          | RB SHP: V<br>Texture: F <input checked="" type="checkbox"/> G <input type="checkbox"/> C <input type="checkbox"/> B <input type="checkbox"/> R <input type="checkbox"/> A <input type="checkbox"/><br>RIP: S<br>STG: NA |                                                                                                    |                          |       |                                                                                                                                              |     |       |                          |                          |                          |                                                                                         |                                     |                                                                                              |                          |                                                    |                          |                          |                                     |                                     |                                     |                                     |                                     |                                     |                          |                                                                                                                                                                   |  |  |  |  |      |                   |   |      |      |      |      |      |      |  |  |  |  |      |                 |    |      |      |      |      |      |  |  |  |  |  |      |                                                                                                                                                                                                                                                                                                                                       |  |  |  |           |     |     |           |     |     |    |            |  |  |    |
| WATER                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                                                                                              |                                     |                                     |                                     |                                     |                                     |                          |                                                                                                                                                                                                                         |                                                                                                    |                          |       |                                                                                                                                              |     |       |                          |                          |                          |                                                                                         |                                     |                                                                                              |                          |                                                    |                          |                          |                                     |                                     |                                     |                                     |                                     |                                     |                          |                                                                                                                                                                   |  |  |  |  |      |                   |   |      |      |      |      |      |      |  |  |  |  |      |                 |    |      |      |      |      |      |  |  |  |  |  |      |                                                                                                                                                                                                                                                                                                                                       |  |  |  |           |     |     |           |     |     |    |            |  |  |    |
| EMS: _____ Req #: _____<br>Temp: 11 Method: T3 Cond.: 50 Method: S4<br>pH: 7.0 Method: P4 Turb.: T <input type="checkbox"/> M <input type="checkbox"/> L <input type="checkbox"/> C <input checked="" type="checkbox"/> Method: GE<br>Flood Signs: none Method: GE                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                                                                                              |                                     |                                     |                                     |                                     |                                     |                          |                                                                                                                                                                                                                         |                                                                                                    |                          |       |                                                                                                                                              |     |       |                          |                          |                          |                                                                                         |                                     |                                                                                              |                          |                                                    |                          |                          |                                     |                                     |                                     |                                     |                                     |                                     |                          |                                                                                                                                                                   |  |  |  |  |      |                   |   |      |      |      |      |      |      |  |  |  |  |      |                 |    |      |      |      |      |      |  |  |  |  |  |      |                                                                                                                                                                                                                                                                                                                                       |  |  |  |           |     |     |           |     |     |    |            |  |  |    |
| MORPHOLOGY                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                                                                                              |                                     |                                     |                                     |                                     |                                     |                          |                                                                                                                                                                                                                         |                                                                                                    |                          |       |                                                                                                                                              |     |       |                          |                          |                          |                                                                                         |                                     |                                                                                              |                          |                                                    |                          |                          |                                     |                                     |                                     |                                     |                                     |                                     |                          |                                                                                                                                                                   |  |  |  |  |      |                   |   |      |      |      |      |      |      |  |  |  |  |      |                 |    |      |      |      |      |      |  |  |  |  |  |      |                                                                                                                                                                                                                                                                                                                                       |  |  |  |           |     |     |           |     |     |    |            |  |  |    |
| Bed Material: Dominant: G Subdom: C O1 B1 B2 B3 D1 D2 D3<br>D95: 12.0 D (cm): 5.00 Morph: RP DISTURBANCE INDICATORS <table border="1" style="display: inline-table; text-align: center;"><tr><td><input type="checkbox"/></td><td><input type="checkbox"/></td><td><input type="checkbox"/></td><td><input type="checkbox"/></td><td><input checked="" type="checkbox"/></td><td><input type="checkbox"/></td><td><input type="checkbox"/></td></tr></table><br>Pattern: IR C1 C2 C3 C4 C5 S1 S2 S3 S4 S5<br>Islands: O <table border="1" style="display: inline-table; text-align: center;"><tr><td><input type="checkbox"/></td><td><input type="checkbox"/></td><td><input type="checkbox"/></td><td><input type="checkbox"/></td><td><input type="checkbox"/></td><td><input type="checkbox"/></td><td><input type="checkbox"/></td><td><input type="checkbox"/></td><td><input type="checkbox"/></td><td><input type="checkbox"/></td><td><input type="checkbox"/></td></tr></table><br>Coupling: DC Bars: N <input type="checkbox"/> SIDE <input checked="" type="checkbox"/> DIAG <input checked="" type="checkbox"/> MID <input type="checkbox"/> SPAN <input type="checkbox"/> BR <input type="checkbox"/><br>Confinement: OC<br>FSZ: <input type="checkbox"/> |                                                                                              |                                     |                                     |                                     |                                     |                                     |                          |                                                                                                                                                                                                                         |                                                                                                    |                          |       |                                                                                                                                              |     |       | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/>                                                                | <input checked="" type="checkbox"/> | <input type="checkbox"/>                                                                     | <input type="checkbox"/> | <input type="checkbox"/>                           | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/>            | <input type="checkbox"/>            | <input type="checkbox"/>            | <input type="checkbox"/>            | <input type="checkbox"/>            | <input type="checkbox"/>            | <input type="checkbox"/> | <input type="checkbox"/>                                                                                                                                          |  |  |  |  |      |                   |   |      |      |      |      |      |      |  |  |  |  |      |                 |    |      |      |      |      |      |  |  |  |  |  |      |                                                                                                                                                                                                                                                                                                                                       |  |  |  |           |     |     |           |     |     |    |            |  |  |    |
| <input type="checkbox"/>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | <input type="checkbox"/>                                                                     | <input type="checkbox"/>            | <input type="checkbox"/>            | <input checked="" type="checkbox"/> | <input type="checkbox"/>            | <input type="checkbox"/>            |                          |                                                                                                                                                                                                                         |                                                                                                    |                          |       |                                                                                                                                              |     |       |                          |                          |                          |                                                                                         |                                     |                                                                                              |                          |                                                    |                          |                          |                                     |                                     |                                     |                                     |                                     |                                     |                          |                                                                                                                                                                   |  |  |  |  |      |                   |   |      |      |      |      |      |      |  |  |  |  |      |                 |    |      |      |      |      |      |  |  |  |  |  |      |                                                                                                                                                                                                                                                                                                                                       |  |  |  |           |     |     |           |     |     |    |            |  |  |    |
| <input type="checkbox"/>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | <input type="checkbox"/>                                                                     | <input type="checkbox"/>            | <input type="checkbox"/>            | <input type="checkbox"/>            | <input type="checkbox"/>            | <input type="checkbox"/>            | <input type="checkbox"/> | <input type="checkbox"/>                                                                                                                                                                                                | <input type="checkbox"/>                                                                           | <input type="checkbox"/> |       |                                                                                                                                              |     |       |                          |                          |                          |                                                                                         |                                     |                                                                                              |                          |                                                    |                          |                          |                                     |                                     |                                     |                                     |                                     |                                     |                          |                                                                                                                                                                   |  |  |  |  |      |                   |   |      |      |      |      |      |      |  |  |  |  |      |                 |    |      |      |      |      |      |  |  |  |  |  |      |                                                                                                                                                                                                                                                                                                                                       |  |  |  |           |     |     |           |     |     |    |            |  |  |    |
| HABITAT QUALITY                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                                                                                              |                                     |                                     |                                     |                                     |                                     |                          |                                                                                                                                                                                                                         |                                                                                                    |                          |       |                                                                                                                                              |     |       |                          |                          |                          |                                                                                         |                                     |                                                                                              |                          |                                                    |                          |                          |                                     |                                     |                                     |                                     |                                     |                                     |                          |                                                                                                                                                                   |  |  |  |  |      |                   |   |      |      |      |      |      |      |  |  |  |  |      |                 |    |      |      |      |      |      |  |  |  |  |  |      |                                                                                                                                                                                                                                                                                                                                       |  |  |  |           |     |     |           |     |     |    |            |  |  |    |
| <table border="1" style="width:100%; border-collapse: collapse;"> <thead> <tr> <th>Name</th> <th>Comments</th> </tr> </thead> <tbody> <tr> <td>Spawning Habitat</td> <td>Abundant gravels, CO likely utilizes stream in v. late fall, when stream has more flow.</td> </tr> <tr> <td>Rearing Habitat</td> <td>F-M - cover abundant and diverse, however stream is likely affected by low flows/dewatering.</td> </tr> <tr> <td>OverWinter Habitat</td> <td>two suitable pools observed in lower 70m of reach.</td> </tr> </tbody> </table>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                                                                                              |                                     |                                     |                                     |                                     |                                     |                          |                                                                                                                                                                                                                         |                                                                                                    |                          |       |                                                                                                                                              |     |       | Name                     | Comments                 | Spawning Habitat         | Abundant gravels, CO likely utilizes stream in v. late fall, when stream has more flow. | Rearing Habitat                     | F-M - cover abundant and diverse, however stream is likely affected by low flows/dewatering. | OverWinter Habitat       | two suitable pools observed in lower 70m of reach. |                          |                          |                                     |                                     |                                     |                                     |                                     |                                     |                          |                                                                                                                                                                   |  |  |  |  |      |                   |   |      |      |      |      |      |      |  |  |  |  |      |                 |    |      |      |      |      |      |  |  |  |  |  |      |                                                                                                                                                                                                                                                                                                                                       |  |  |  |           |     |     |           |     |     |    |            |  |  |    |
| Name                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | Comments                                                                                     |                                     |                                     |                                     |                                     |                                     |                          |                                                                                                                                                                                                                         |                                                                                                    |                          |       |                                                                                                                                              |     |       |                          |                          |                          |                                                                                         |                                     |                                                                                              |                          |                                                    |                          |                          |                                     |                                     |                                     |                                     |                                     |                                     |                          |                                                                                                                                                                   |  |  |  |  |      |                   |   |      |      |      |      |      |      |  |  |  |  |      |                 |    |      |      |      |      |      |  |  |  |  |  |      |                                                                                                                                                                                                                                                                                                                                       |  |  |  |           |     |     |           |     |     |    |            |  |  |    |
| Spawning Habitat                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | Abundant gravels, CO likely utilizes stream in v. late fall, when stream has more flow.      |                                     |                                     |                                     |                                     |                                     |                          |                                                                                                                                                                                                                         |                                                                                                    |                          |       |                                                                                                                                              |     |       |                          |                          |                          |                                                                                         |                                     |                                                                                              |                          |                                                    |                          |                          |                                     |                                     |                                     |                                     |                                     |                                     |                          |                                                                                                                                                                   |  |  |  |  |      |                   |   |      |      |      |      |      |      |  |  |  |  |      |                 |    |      |      |      |      |      |  |  |  |  |  |      |                                                                                                                                                                                                                                                                                                                                       |  |  |  |           |     |     |           |     |     |    |            |  |  |    |
| Rearing Habitat                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | F-M - cover abundant and diverse, however stream is likely affected by low flows/dewatering. |                                     |                                     |                                     |                                     |                                     |                          |                                                                                                                                                                                                                         |                                                                                                    |                          |       |                                                                                                                                              |     |       |                          |                          |                          |                                                                                         |                                     |                                                                                              |                          |                                                    |                          |                          |                                     |                                     |                                     |                                     |                                     |                                     |                          |                                                                                                                                                                   |  |  |  |  |      |                   |   |      |      |      |      |      |      |  |  |  |  |      |                 |    |      |      |      |      |      |  |  |  |  |  |      |                                                                                                                                                                                                                                                                                                                                       |  |  |  |           |     |     |           |     |     |    |            |  |  |    |
| OverWinter Habitat                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | two suitable pools observed in lower 70m of reach.                                           |                                     |                                     |                                     |                                     |                                     |                          |                                                                                                                                                                                                                         |                                                                                                    |                          |       |                                                                                                                                              |     |       |                          |                          |                          |                                                                                         |                                     |                                                                                              |                          |                                                    |                          |                          |                                     |                                     |                                     |                                     |                                     |                                     |                          |                                                                                                                                                                   |  |  |  |  |      |                   |   |      |      |      |      |      |      |  |  |  |  |      |                 |    |      |      |      |      |      |  |  |  |  |  |      |                                                                                                                                                                                                                                                                                                                                       |  |  |  |           |     |     |           |     |     |    |            |  |  |    |
| PHOTOS                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                                                                                              |                                     |                                     |                                     |                                     |                                     |                          |                                                                                                                                                                                                                         |                                                                                                    |                          |       |                                                                                                                                              |     |       |                          |                          |                          |                                                                                         |                                     |                                                                                              |                          |                                                    |                          |                          |                                     |                                     |                                     |                                     |                                     |                                     |                          |                                                                                                                                                                   |  |  |  |  |      |                   |   |      |      |      |      |      |      |  |  |  |  |      |                 |    |      |      |      |      |      |  |  |  |  |  |      |                                                                                                                                                                                                                                                                                                                                       |  |  |  |           |     |     |           |     |     |    |            |  |  |    |
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| Photo                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | Foc Lg                                                                                       | Dir                                 | Comments                            |                                     |                                     |                                     |                          |                                                                                                                                                                                                                         |                                                                                                    |                          |       |                                                                                                                                              |     |       |                          |                          |                          |                                                                                         |                                     |                                                                                              |                          |                                                    |                          |                          |                                     |                                     |                                     |                                     |                                     |                                     |                          |                                                                                                                                                                   |  |  |  |  |      |                   |   |      |      |      |      |      |      |  |  |  |  |      |                 |    |      |      |      |      |      |  |  |  |  |  |      |                                                                                                                                                                                                                                                                                                                                       |  |  |  |           |     |     |           |     |     |    |            |  |  |    |
| R: DIG F: 853                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | STD                                                                                          | U                                   | probe for scale                     |                                     |                                     |                                     |                          |                                                                                                                                                                                                                         |                                                                                                    |                          |       |                                                                                                                                              |     |       |                          |                          |                          |                                                                                         |                                     |                                                                                              |                          |                                                    |                          |                          |                                     |                                     |                                     |                                     |                                     |                                     |                          |                                                                                                                                                                   |  |  |  |  |      |                   |   |      |      |      |      |      |      |  |  |  |  |      |                 |    |      |      |      |      |      |  |  |  |  |  |      |                                                                                                                                                                                                                                                                                                                                       |  |  |  |           |     |     |           |     |     |    |            |  |  |    |

# FDIS Site Card

## 2006 RFFHI Babine L. Tributaries - Re-sampling

Watershed Code: 480-505600-00000-00000-0000-000-000-000-000-000-000

| Reach # | ILP Map # | ILP # | Site |
|---------|-----------|-------|------|
| 1.0     | 093M.018  | 10222 | 110  |

| P H O T O S     |     |                                          |     |          |
|-----------------|-----|------------------------------------------|-----|----------|
| Photo           |     | Foc Lg                                   | Dir | Comments |
| R:              | DIG | F: 854                                   | STD | D        |
| probe for scale |     |                                          |     |          |
| C O M M E N T S |     |                                          |     |          |
| Section         |     | Comments                                 |     |          |
| SITE CARD       |     | S3                                       |     |          |
| MORPHOLOGY      |     | R1 boundary at UTM. 9.655527.6112546     |     |          |
| SITE CARD       |     | last CO captured at UTM 9.655508.6112539 |     |          |





# FDIS Reach Card

## 2006 RFFHI Babine L. Tributaries - Re-sampling

|                                                                                                                                                                                                                                                                     |          |                |                       |                |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------|----------------|-----------------------|----------------|
| Watershed Code: 480-505600-00000-00000-0000-0000-000-000-000-000-000                                                                                                                                                                                                |          | Reach #<br>1.0 | ILP Map #<br>093M.018 | ILP #<br>10222 |
| PROJECT                                                                                                                                                                                                                                                             |          |                |                       |                |
| Project Name: Babine Lake Face Unit Re-sampling - 2006<br>Stream Name (gaz.): BABINE RIVER<br>Project Watershed Code: 480-000000-00000-00000-0000-0000-000-000-000-000-000                                                                                          |          |                |                       |                |
| Project Code: 06-BABL-00015953-2006                                                                                                                                                                                                                                 |          |                |                       |                |
| WATERSHED                                                                                                                                                                                                                                                           |          |                |                       |                |
| Reach Watershed Code: 480-505600-00000-00000-0000-0000-000-000-000-000-000                                                                                                                                                                                          |          |                |                       |                |
| ILP Map #: 093M.018      ILP #: 10222      Reach #: 1.0      NID Map #: 093M.018      NID #: 20006                                                                                                                                                                  |          |                |                       |                |
| Air Photos      Names      UTM(Zone/East/North/Method)                                                                                                                                                                                                              |          |                |                       |                |
| LINE:      Gaz.:      9.655692.6112627      GIS                                                                                                                                                                                                                     |          |                |                       |                |
| #:      Local: Unnamed Creek      Sample Type: B      Wetland: <input type="checkbox"/>                                                                                                                                                                             |          |                |                       |                |
| SURVEY INFO                                                                                                                                                                                                                                                         |          |                |                       |                |
| Date: 2006/06/20      Agency: C016      Crew: MJ/JL                                                                                                                                                                                                                 |          |                |                       |                |
| ATTRIBUTES                                                                                                                                                                                                                                                          |          |                |                       |                |
| Length (km): .31      Gradient: 3.55      Setting: VF      DISTURBANCE INDICATORS      O1      B1      B2      B3      D1      D2      D3                                                                                                                           |          |                |                       |                |
| DS Elev.: 719      Order: 2      Open water: A <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>                                       |          |                |                       |                |
| US Elev: 730      Magnitude: 2      Confinement: OC      C1      C2      C3      C4      C5      S1      S2      S3      S4      S5                                                                                                                                 |          |                |                       |                |
| BGC Zone: SBS      Coupling: DC <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>    |          |                |                       |                |
| Valley Flat: B      C/D: C      Islands: N                                                                                                                                                                                                                          |          |                |                       |                |
| Active Floodplain Visible: <input type="checkbox"/> Est. Width:      Bars: <input checked="" type="checkbox"/> N <input type="checkbox"/> SIDE <input type="checkbox"/> DIAG <input type="checkbox"/> MID <input type="checkbox"/> SPAN <input type="checkbox"/> BR |          |                |                       |                |
| Channel Pattern: SI      Mass Movement: L      Exposed/Eroded: N                                                                                                                                                                                                    |          |                |                       |                |
| Riparian Veg.: M      Landuse: NO                                                                                                                                                                                                                                   |          |                |                       |                |
| MAPS                                                                                                                                                                                                                                                                |          |                |                       |                |
| Map Type                                                                                                                                                                                                                                                            | Map #    | Year           |                       |                |
| TRIM                                                                                                                                                                                                                                                                | 093M.018 | 2006           |                       |                |

# FDIS Site Card

## 2006 RFFHI Babine L. Tributaries - Re-sampling

Watershed Code: 480-513700-00000-00000-0000-000-000-000-000-000-000

Reach # 2.0 ILP Map # 093M.018 ILP # 10227 Site 111

| PROJECT                                                                     |                                     |
|-----------------------------------------------------------------------------|-------------------------------------|
| Project Name: Babine Lake Face Unit Re-sampling - 2006                      | Project Code: 06-BABL-00015953-2006 |
| Stream Name (gaz.): BABINE RIVER                                            |                                     |
| Project Watershed Code: 480-000000-00000-00000-0000-000-000-000-000-000-000 |                                     |

| WATERSHED                                                           |                                                                                                               |
|---------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------|
| Gazetted Name:                                                      | Local Name: Unnamed Creek                                                                                     |
| Watershed Code: 480-513700-00000-00000-0000-000-000-000-000-000-000 |                                                                                                               |
| ILP Map#: 093M.018                                                  | ILP #: 10227 NID Map #: 093M.018                                                                              |
| NID #: 6                                                            | Reach #: 2.0 Site #: 111                                                                                      |
| Field UTM (Z.E.N): 9.655837.6110324                                 | Method: GP3                                                                                                   |
| GIS UTM (Z.E.N): 9.655816.6110300                                   | Site Lg: 100 Method: GE Access: FT                                                                            |
| Ref. Name:                                                          |                                                                                                               |
| Date: 2006/07/02                                                    | Time: 12:15 Agency: C016 Crew: MJ/JL Fish Crd?: <input type="checkbox"/> Incomplete: <input type="checkbox"/> |

| CHANNEL                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                                                                                                                                                                                                                                               |                          |                          |                          |                          |                          |                          |       |                                                                                                               |       |       |       |     |                    |   |      |             |                          |                          |                          |                          |                          |                          |                          |                                                                                                                                                                |      |                   |    |      |      |      |      |      |      |  |  |  |  |      |                 |    |      |      |      |  |  |  |  |  |  |  |      |                                                                                                                                                                                                                                                                                                                         |  |           |     |     |           |     |      |    |            |      |  |    |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|-------|---------------------------------------------------------------------------------------------------------------|-------|-------|-------|-----|--------------------|---|------|-------------|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------|------|-------------------|----|------|------|------|------|------|------|--|--|--|--|------|-----------------|----|------|------|------|--|--|--|--|--|--|--|------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|-----------|-----|-----|-----------|-----|------|----|------------|------|--|----|
| <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th></th> <th>Mtd</th> <th>width</th> <th>width</th> <th>width</th> <th>width</th> <th>width</th> <th>width</th> <th>width</th> <th>width</th> <th>width</th> <th>width</th> <th>Avg</th> </tr> </thead> <tbody> <tr> <td>Channel Width (m):</td> <td>T</td> <td>2.20</td> <td>2.40</td> <td>2.50</td> <td>2.90</td> <td>2.70</td> <td>3.10</td> <td></td> <td></td> <td></td> <td></td> <td>2.63</td> </tr> <tr> <td>Wetted Width (m):</td> <td>GE</td> <td>0.00</td> <td>0.00</td> <td>0.00</td> <td>0.00</td> <td>0.00</td> <td>0.00</td> <td></td> <td></td> <td></td> <td></td> <td>0.00</td> </tr> <tr> <td>Pool Depth (m):</td> <td>GE</td> <td>0.00</td> <td>0.00</td> <td>0.00</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>0.00</td> </tr> </tbody> </table> |                                                                                                                                                                                                                                               | Mtd                      | width                    | width                    | width                    | width                    | width                    | width | width                                                                                                         | width | width | width | Avg | Channel Width (m): | T | 2.20 | 2.40        | 2.50                     | 2.90                     | 2.70                     | 3.10                     |                          |                          |                          |                                                                                                                                                                | 2.63 | Wetted Width (m): | GE | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |  |  |  |  | 0.00 | Pool Depth (m): | GE | 0.00 | 0.00 | 0.00 |  |  |  |  |  |  |  | 0.00 | <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th></th> <th>Gadient %</th> <th>Mtd</th> <th>Avg</th> </tr> </thead> <tbody> <tr> <td>Method I:</td> <td>9.0</td> <td>12.0</td> <td>AL</td> </tr> <tr> <td>Method II:</td> <td>10.0</td> <td></td> <td>AL</td> </tr> </tbody> </table> |  | Gadient % | Mtd | Avg | Method I: | 9.0 | 12.0 | AL | Method II: | 10.0 |  | AL |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | Mtd                                                                                                                                                                                                                                           | width                    | width                    | width                    | width                    | width                    | width                    | width | width                                                                                                         | width | width | Avg   |     |                    |   |      |             |                          |                          |                          |                          |                          |                          |                          |                                                                                                                                                                |      |                   |    |      |      |      |      |      |      |  |  |  |  |      |                 |    |      |      |      |  |  |  |  |  |  |  |      |                                                                                                                                                                                                                                                                                                                         |  |           |     |     |           |     |      |    |            |      |  |    |
| Channel Width (m):                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | T                                                                                                                                                                                                                                             | 2.20                     | 2.40                     | 2.50                     | 2.90                     | 2.70                     | 3.10                     |       |                                                                                                               |       |       | 2.63  |     |                    |   |      |             |                          |                          |                          |                          |                          |                          |                          |                                                                                                                                                                |      |                   |    |      |      |      |      |      |      |  |  |  |  |      |                 |    |      |      |      |  |  |  |  |  |  |  |      |                                                                                                                                                                                                                                                                                                                         |  |           |     |     |           |     |      |    |            |      |  |    |
| Wetted Width (m):                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | GE                                                                                                                                                                                                                                            | 0.00                     | 0.00                     | 0.00                     | 0.00                     | 0.00                     | 0.00                     |       |                                                                                                               |       |       | 0.00  |     |                    |   |      |             |                          |                          |                          |                          |                          |                          |                          |                                                                                                                                                                |      |                   |    |      |      |      |      |      |      |  |  |  |  |      |                 |    |      |      |      |  |  |  |  |  |  |  |      |                                                                                                                                                                                                                                                                                                                         |  |           |     |     |           |     |      |    |            |      |  |    |
| Pool Depth (m):                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | GE                                                                                                                                                                                                                                            | 0.00                     | 0.00                     | 0.00                     |                          |                          |                          |       |                                                                                                               |       |       | 0.00  |     |                    |   |      |             |                          |                          |                          |                          |                          |                          |                          |                                                                                                                                                                |      |                   |    |      |      |      |      |      |      |  |  |  |  |      |                 |    |      |      |      |  |  |  |  |  |  |  |      |                                                                                                                                                                                                                                                                                                                         |  |           |     |     |           |     |      |    |            |      |  |    |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | Gadient %                                                                                                                                                                                                                                     | Mtd                      | Avg                      |                          |                          |                          |                          |       |                                                                                                               |       |       |       |     |                    |   |      |             |                          |                          |                          |                          |                          |                          |                          |                                                                                                                                                                |      |                   |    |      |      |      |      |      |      |  |  |  |  |      |                 |    |      |      |      |  |  |  |  |  |  |  |      |                                                                                                                                                                                                                                                                                                                         |  |           |     |     |           |     |      |    |            |      |  |    |
| Method I:                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | 9.0                                                                                                                                                                                                                                           | 12.0                     | AL                       |                          |                          |                          |                          |       |                                                                                                               |       |       |       |     |                    |   |      |             |                          |                          |                          |                          |                          |                          |                          |                                                                                                                                                                |      |                   |    |      |      |      |      |      |      |  |  |  |  |      |                 |    |      |      |      |  |  |  |  |  |  |  |      |                                                                                                                                                                                                                                                                                                                         |  |           |     |     |           |     |      |    |            |      |  |    |
| Method II:                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | 10.0                                                                                                                                                                                                                                          |                          | AL                       |                          |                          |                          |                          |       |                                                                                                               |       |       |       |     |                    |   |      |             |                          |                          |                          |                          |                          |                          |                          |                                                                                                                                                                |      |                   |    |      |      |      |      |      |      |  |  |  |  |      |                 |    |      |      |      |  |  |  |  |  |  |  |      |                                                                                                                                                                                                                                                                                                                         |  |           |     |     |           |     |      |    |            |      |  |    |
| <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th>Wb Depth:</th> <th>.3</th> <th>.4</th> <th>.3</th> </tr> </thead> <tbody> <tr> <td>Avg: 0.33</td> <td colspan="3"></td> </tr> </tbody> </table>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | Wb Depth:                                                                                                                                                                                                                                     | .3                       | .4                       | .3                       | Avg: 0.33                |                          |                          |       | Method: MS Stage: L <input checked="" type="checkbox"/> M <input type="checkbox"/> H <input type="checkbox"/> |       |       |       |     |                    |   |      |             |                          |                          |                          |                          |                          |                          |                          |                                                                                                                                                                |      |                   |    |      |      |      |      |      |      |  |  |  |  |      |                 |    |      |      |      |  |  |  |  |  |  |  |      |                                                                                                                                                                                                                                                                                                                         |  |           |     |     |           |     |      |    |            |      |  |    |
| Wb Depth:                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | .3                                                                                                                                                                                                                                            | .4                       | .3                       |                          |                          |                          |                          |       |                                                                                                               |       |       |       |     |                    |   |      |             |                          |                          |                          |                          |                          |                          |                          |                                                                                                                                                                |      |                   |    |      |      |      |      |      |      |  |  |  |  |      |                 |    |      |      |      |  |  |  |  |  |  |  |      |                                                                                                                                                                                                                                                                                                                         |  |           |     |     |           |     |      |    |            |      |  |    |
| Avg: 0.33                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                                                                                                                                                                                                                               |                          |                          |                          |                          |                          |                          |       |                                                                                                               |       |       |       |     |                    |   |      |             |                          |                          |                          |                          |                          |                          |                          |                                                                                                                                                                |      |                   |    |      |      |      |      |      |      |  |  |  |  |      |                 |    |      |      |      |  |  |  |  |  |  |  |      |                                                                                                                                                                                                                                                                                                                         |  |           |     |     |           |     |      |    |            |      |  |    |
| COVER Total: N <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th>Type:</th> <th>SWD</th> <th>LWD</th> <th>B</th> <th>U</th> <th>DP</th> <th>OV</th> <th>IV</th> </tr> </thead> <tbody> <tr> <td>Amount:</td> <td>N</td> <td>N</td> <td>N</td> <td>N</td> <td>N</td> <td>N</td> <td>N</td> </tr> <tr> <td>Loc: P/S/O:</td> <td><input type="checkbox"/></td> <td><input type="checkbox"/></td> <td><input type="checkbox"/></td> <td><input type="checkbox"/></td> <td><input type="checkbox"/></td> <td><input type="checkbox"/></td> <td><input type="checkbox"/></td> </tr> </tbody> </table>                                                                                                                                                                                                                                                        | Type:                                                                                                                                                                                                                                         | SWD                      | LWD                      | B                        | U                        | DP                       | OV                       | IV    | Amount:                                                                                                       | N     | N     | N     | N   | N                  | N | N    | Loc: P/S/O: | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | CROWN CLOSURE 3 41-70%<br>INSTREAM VEG: N <input checked="" type="checkbox"/> A <input type="checkbox"/> M <input type="checkbox"/> V <input type="checkbox"/> |      |                   |    |      |      |      |      |      |      |  |  |  |  |      |                 |    |      |      |      |  |  |  |  |  |  |  |      |                                                                                                                                                                                                                                                                                                                         |  |           |     |     |           |     |      |    |            |      |  |    |
| Type:                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | SWD                                                                                                                                                                                                                                           | LWD                      | B                        | U                        | DP                       | OV                       | IV                       |       |                                                                                                               |       |       |       |     |                    |   |      |             |                          |                          |                          |                          |                          |                          |                          |                                                                                                                                                                |      |                   |    |      |      |      |      |      |      |  |  |  |  |      |                 |    |      |      |      |  |  |  |  |  |  |  |      |                                                                                                                                                                                                                                                                                                                         |  |           |     |     |           |     |      |    |            |      |  |    |
| Amount:                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | N                                                                                                                                                                                                                                             | N                        | N                        | N                        | N                        | N                        | N                        |       |                                                                                                               |       |       |       |     |                    |   |      |             |                          |                          |                          |                          |                          |                          |                          |                                                                                                                                                                |      |                   |    |      |      |      |      |      |      |  |  |  |  |      |                 |    |      |      |      |  |  |  |  |  |  |  |      |                                                                                                                                                                                                                                                                                                                         |  |           |     |     |           |     |      |    |            |      |  |    |
| Loc: P/S/O:                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | <input type="checkbox"/>                                                                                                                                                                                                                      | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |       |                                                                                                               |       |       |       |     |                    |   |      |             |                          |                          |                          |                          |                          |                          |                          |                                                                                                                                                                |      |                   |    |      |      |      |      |      |      |  |  |  |  |      |                 |    |      |      |      |  |  |  |  |  |  |  |      |                                                                                                                                                                                                                                                                                                                         |  |           |     |     |           |     |      |    |            |      |  |    |
| LWD: F DIST: E<br>LB SHP: S<br>Texture: F <input checked="" type="checkbox"/> G <input checked="" type="checkbox"/> C <input checked="" type="checkbox"/> B <input type="checkbox"/> R <input type="checkbox"/> A <input type="checkbox"/><br>RIP: S<br>STG: NA                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | RB SHP: S<br>Texture: F <input checked="" type="checkbox"/> G <input checked="" type="checkbox"/> C <input checked="" type="checkbox"/> B <input type="checkbox"/> R <input type="checkbox"/> A <input type="checkbox"/><br>RIP: S<br>STG: NA |                          |                          |                          |                          |                          |                          |       |                                                                                                               |       |       |       |     |                    |   |      |             |                          |                          |                          |                          |                          |                          |                          |                                                                                                                                                                |      |                   |    |      |      |      |      |      |      |  |  |  |  |      |                 |    |      |      |      |  |  |  |  |  |  |  |      |                                                                                                                                                                                                                                                                                                                         |  |           |     |     |           |     |      |    |            |      |  |    |

| WATER             |                                                                                                                                          |
|-------------------|------------------------------------------------------------------------------------------------------------------------------------------|
| EMS:              | Req #:                                                                                                                                   |
| Temp:             | Method: T3 Cond.: Method: S4                                                                                                             |
| pH:               | Method: P4 Turb.: T <input type="checkbox"/> M <input type="checkbox"/> L <input type="checkbox"/> C <input type="checkbox"/> Method: GE |
| Flood Signs: none | Method: GE                                                                                                                               |

| MORPHOLOGY                                                                                                                                                                |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                                     |                                     |                                     |                                     |                          |                          |                          |                          |                                     |                                     |                          |                                     |                                     |                          |    |    |    |    |    |    |    |    |    |    |                          |                                     |                          |                                     |                          |                          |                          |                          |                          |                          |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------|-------------------------------------|-------------------------------------|-------------------------------------|--------------------------|--------------------------|--------------------------|--------------------------|-------------------------------------|-------------------------------------|--------------------------|-------------------------------------|-------------------------------------|--------------------------|----|----|----|----|----|----|----|----|----|----|--------------------------|-------------------------------------|--------------------------|-------------------------------------|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|
| Bed Material: Dominant: C Subdom: G<br>D95: 20.0 D (cm): 20.00 Morph: CP<br>Pattern: SI<br>Islands: O<br>Coupling: CO<br>Confinement: CO<br>FSZ: <input type="checkbox"/> | DISTURBANCE INDICATORS<br><table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th>O1</th> <th>B1</th> <th>B2</th> <th>B3</th> <th>D1</th> <th>D2</th> <th>D3</th> </tr> </thead> <tbody> <tr> <td><input type="checkbox"/></td> <td><input checked="" type="checkbox"/></td> <td><input checked="" type="checkbox"/></td> <td><input type="checkbox"/></td> <td><input checked="" type="checkbox"/></td> <td><input checked="" type="checkbox"/></td> <td><input type="checkbox"/></td> </tr> </tbody> </table> <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th>C1</th> <th>C2</th> <th>C3</th> <th>C4</th> <th>C5</th> <th>S1</th> <th>S2</th> <th>S3</th> <th>S4</th> <th>S5</th> </tr> </thead> <tbody> <tr> <td><input type="checkbox"/></td> <td><input checked="" type="checkbox"/></td> <td><input type="checkbox"/></td> <td><input checked="" type="checkbox"/></td> <td><input type="checkbox"/></td> <td><input type="checkbox"/></td> <td><input type="checkbox"/></td> <td><input type="checkbox"/></td> <td><input type="checkbox"/></td> <td><input type="checkbox"/></td> </tr> </tbody> </table> Bars: N <input type="checkbox"/> SIDE <input type="checkbox"/> DIAG <input type="checkbox"/> MID <input type="checkbox"/> SPAN <input type="checkbox"/> BR <input checked="" type="checkbox"/> | O1                                  | B1                                  | B2                                  | B3                                  | D1                       | D2                       | D3                       | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | C1 | C2 | C3 | C4 | C5 | S1 | S2 | S3 | S4 | S5 | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| O1                                                                                                                                                                        | B1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | B2                                  | B3                                  | D1                                  | D2                                  | D3                       |                          |                          |                          |                                     |                                     |                          |                                     |                                     |                          |    |    |    |    |    |    |    |    |    |    |                          |                                     |                          |                                     |                          |                          |                          |                          |                          |                          |
| <input type="checkbox"/>                                                                                                                                                  | <input checked="" type="checkbox"/>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | <input checked="" type="checkbox"/> | <input type="checkbox"/>            | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> |                          |                          |                          |                                     |                                     |                          |                                     |                                     |                          |    |    |    |    |    |    |    |    |    |    |                          |                                     |                          |                                     |                          |                          |                          |                          |                          |                          |
| C1                                                                                                                                                                        | C2                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | C3                                  | C4                                  | C5                                  | S1                                  | S2                       | S3                       | S4                       | S5                       |                                     |                                     |                          |                                     |                                     |                          |    |    |    |    |    |    |    |    |    |    |                          |                                     |                          |                                     |                          |                          |                          |                          |                          |                          |
| <input type="checkbox"/>                                                                                                                                                  | <input checked="" type="checkbox"/>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | <input type="checkbox"/>            | <input checked="" type="checkbox"/> | <input type="checkbox"/>            | <input type="checkbox"/>            | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |                                     |                                     |                          |                                     |                                     |                          |    |    |    |    |    |    |    |    |    |    |                          |                                     |                          |                                     |                          |                          |                          |                          |                          |                          |

| HABITAT QUALITY |                                                                                                                                                                    |
|-----------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Name            | Comments                                                                                                                                                           |
| Other           | Fish presence documented in R1, however d/t fast flow during spring runoff (definitely velocity barrier?) and imminent drought shortly after, prevent fish access. |
| Cover           | NFH-braided, fast flowing stream when watered; highly movable substrate; dries too fast to provide any seasonal fish use; no scoured dry pools observed.           |

| PHOTOS |        |     |                  |
|--------|--------|-----|------------------|
| Photo  | Foc Lg | Dir | Comments         |
| R: DIG | F: 855 | STD | U book for scale |



# FDIS Site Card

## 2006 RFFHI Babine L. Tributaries - Re-sampling

Watershed Code: 480-513700-00000-00000-0000-0000-000-000-000-000-000

|         |           |       |      |
|---------|-----------|-------|------|
| Reach # | ILP Map # | ILP # | Site |
| 2.0     | 093M.018  | 10227 | 111  |

| P H O T O S     |     |          |     |          |
|-----------------|-----|----------|-----|----------|
| Photo           |     | Foc Lg   | Dir | Comments |
| R:              | DIG | F: 856   | STD | D        |
| book for scale  |     |          |     |          |
| C O M M E N T S |     |          |     |          |
| Section         |     | Comments |     |          |
| SITE CARD       |     | S6       |     |          |
| SITE CARD       |     | site=UTM |     |          |



FDIS Reach Card

2006 RFFHI Babine L. Tributaries - Re-sampling

|                                                                      |  |                |                       |                |
|----------------------------------------------------------------------|--|----------------|-----------------------|----------------|
| Watershed Code: 480-513700-00000-00000-0000-0000-000-000-000-000-000 |  | Reach #<br>2.0 | ILP Map #<br>093M.018 | ILP #<br>10227 |
|----------------------------------------------------------------------|--|----------------|-----------------------|----------------|

|                                                                              |  |                                     |  |  |
|------------------------------------------------------------------------------|--|-------------------------------------|--|--|
| PROJECT                                                                      |  |                                     |  |  |
| Project Name: Babine Lake Face Unit Re-sampling - 2006                       |  |                                     |  |  |
| Stream Name (gaz.): BABINE RIVER                                             |  | Project Code: 06-BABL-00015953-2006 |  |  |
| Project Watershed Code: 480-000000-00000-00000-0000-0000-000-000-000-000-000 |  |                                     |  |  |

|                                                                            |                      |                                                  |                             |              |
|----------------------------------------------------------------------------|----------------------|--------------------------------------------------|-----------------------------|--------------|
| WATERSHED                                                                  |                      |                                                  |                             |              |
| Reach Watershed Code: 480-513700-00000-00000-0000-0000-000-000-000-000-000 |                      |                                                  |                             |              |
| ILP Map #: 093M.018                                                        | ILP #: 10227         | Reach #: 2.0                                     | NID Map #: 093M.018         | NID #: 20378 |
| Air Photos                                                                 | Names                |                                                  | UTM(Zone/East/North/Method) |              |
| LINE:                                                                      | Gaz.:                | 9.657694.6110647   GIS                           |                             |              |
| #:                                                                         | Local: Unnamed Creek | Sample Type: B Wetland: <input type="checkbox"/> |                             |              |

|                  |  |              |             |  |
|------------------|--|--------------|-------------|--|
| SURVEY INFO      |  |              |             |  |
| Date: 2006/06/20 |  | Agency: C016 | Crew: MJ/JL |  |

|                                                     |                |                                                                                                                                                                                                |                                                                                                                                                                                                     |                          |                          |                          |                          |                          |                          |                          |                          |                          |  |  |
|-----------------------------------------------------|----------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|--|--|
| ATTRIBUTES                                          |                |                                                                                                                                                                                                |                                                                                                                                                                                                     |                          |                          |                          |                          |                          |                          |                          |                          |                          |  |  |
| Length (km): 2.27                                   | Gradient: 7.71 | Setting: VW                                                                                                                                                                                    | DISTURBANCE INDICATORS                                                                                                                                                                              |                          |                          |                          |                          |                          |                          |                          |                          |                          |  |  |
| DS Elev.: 744                                       | Order: 2       | Open water: A                                                                                                                                                                                  | <input type="checkbox"/> O1 <input type="checkbox"/> B1 <input type="checkbox"/> B2 <input type="checkbox"/> B3 <input type="checkbox"/> D1 <input type="checkbox"/> D2 <input type="checkbox"/> D3 |                          |                          |                          |                          |                          |                          |                          |                          |                          |  |  |
| US Elev: 919                                        | Magnitude: 3   | Confinement: FC                                                                                                                                                                                | C1                                                                                                                                                                                                  | C2                       | C3                       | C4                       | C5                       | S1                       | S2                       | S3                       | S4                       | S5                       |  |  |
|                                                     | BGC Zone: SBS  | Coupling: CO                                                                                                                                                                                   | <input type="checkbox"/>                                                                                                                                                                            | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |  |  |
| Valley Flat: N                                      | C/D:           | Islands: N                                                                                                                                                                                     |                                                                                                                                                                                                     |                          |                          |                          |                          |                          |                          |                          |                          |                          |  |  |
| Active Floodplain Visible: <input type="checkbox"/> | Est. Width:    | Bars: <input checked="" type="checkbox"/> N <input type="checkbox"/> SIDE <input type="checkbox"/> DIAG <input type="checkbox"/> MID <input type="checkbox"/> SPAN <input type="checkbox"/> BR |                                                                                                                                                                                                     |                          |                          |                          |                          |                          |                          |                          |                          |                          |  |  |
| Channel Pattern: SI                                 |                | Mass Movement: L                                                                                                                                                                               | Exposed/Eroded: NV                                                                                                                                                                                  |                          |                          |                          |                          |                          |                          |                          |                          |                          |  |  |
|                                                     |                | Riparian Veg.: M                                                                                                                                                                               | Landuse: NO                                                                                                                                                                                         |                          |                          |                          |                          |                          |                          |                          |                          |                          |  |  |

|          |          |      |
|----------|----------|------|
| MAPS     |          |      |
| Map Type | Map #    | Year |
| TRIM     | 093M.018 | 2006 |

# FDIS Site Card

## 2006 RFFHI Babine L. Tributaries - Re-sampling

Watershed Code: 480-471159-00000-00000-0000-000-000-000-000-000-000

Reach # 1.0 ILP Map # 093M.028 ILP # 10271 Site 112

| PROJECT                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                                     |                          |                          |                                     |                                                                                                         |                                     |                          |                                                                                                                                                                                                  |                          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |       |                                                                                                                                                         |                  |        |                          |                          |                          |                          |                          |                          |                          |                          |                          |                          |                                     |                          |                          |                                     |                                     |                                     |                          |                           |  |  |  |  |      |                   |   |      |      |      |      |      |      |  |  |  |  |      |                 |    |      |      |  |  |  |  |  |  |  |  |      |                                                                                                                                                                                                                                                                                                                      |  |  |  |           |     |     |           |     |     |    |            |     |  |    |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------|--------------------------|--------------------------|-------------------------------------|---------------------------------------------------------------------------------------------------------|-------------------------------------|--------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------|---------------------------------------------------------------------------------------------------------------------------------------------------------|------------------|--------|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|-------------------------------------|--------------------------|--------------------------|-------------------------------------|-------------------------------------|-------------------------------------|--------------------------|---------------------------|--|--|--|--|------|-------------------|---|------|------|------|------|------|------|--|--|--|--|------|-----------------|----|------|------|--|--|--|--|--|--|--|--|------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|--|--|-----------|-----|-----|-----------|-----|-----|----|------------|-----|--|----|
| Project Name: Babine Lake Face Unit Re-sampling - 2006                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                                     |                          |                          |                                     |                                                                                                         |                                     |                          |                                                                                                                                                                                                  |                          | Project Code: 06-BABL-00015953-2006                                                                                                                                                                                                                                                                                                                                                                                                                                         |       |                                                                                                                                                         |                  |        |                          |                          |                          |                          |                          |                          |                          |                          |                          |                          |                                     |                          |                          |                                     |                                     |                                     |                          |                           |  |  |  |  |      |                   |   |      |      |      |      |      |      |  |  |  |  |      |                 |    |      |      |  |  |  |  |  |  |  |  |      |                                                                                                                                                                                                                                                                                                                      |  |  |  |           |     |     |           |     |     |    |            |     |  |    |
| Stream Name (gaz.): BABINE RIVER                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                                     |                          |                          |                                     |                                                                                                         |                                     |                          |                                                                                                                                                                                                  |                          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |       |                                                                                                                                                         |                  |        |                          |                          |                          |                          |                          |                          |                          |                          |                          |                          |                                     |                          |                          |                                     |                                     |                                     |                          |                           |  |  |  |  |      |                   |   |      |      |      |      |      |      |  |  |  |  |      |                 |    |      |      |  |  |  |  |  |  |  |  |      |                                                                                                                                                                                                                                                                                                                      |  |  |  |           |     |     |           |     |     |    |            |     |  |    |
| Project Watershed Code: 480-000000-00000-00000-0000-000-000-000-000-000-000                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                                     |                          |                          |                                     |                                                                                                         |                                     |                          |                                                                                                                                                                                                  |                          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |       |                                                                                                                                                         |                  |        |                          |                          |                          |                          |                          |                          |                          |                          |                          |                          |                                     |                          |                          |                                     |                                     |                                     |                          |                           |  |  |  |  |      |                   |   |      |      |      |      |      |      |  |  |  |  |      |                 |    |      |      |  |  |  |  |  |  |  |  |      |                                                                                                                                                                                                                                                                                                                      |  |  |  |           |     |     |           |     |     |    |            |     |  |    |
| WATERSHED                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                                     |                          |                          |                                     |                                                                                                         |                                     |                          |                                                                                                                                                                                                  |                          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |       |                                                                                                                                                         |                  |        |                          |                          |                          |                          |                          |                          |                          |                          |                          |                          |                                     |                          |                          |                                     |                                     |                                     |                          |                           |  |  |  |  |      |                   |   |      |      |      |      |      |      |  |  |  |  |      |                 |    |      |      |  |  |  |  |  |  |  |  |      |                                                                                                                                                                                                                                                                                                                      |  |  |  |           |     |     |           |     |     |    |            |     |  |    |
| Gazetted Name:                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                                     |                          |                          |                                     |                                                                                                         |                                     |                          |                                                                                                                                                                                                  |                          | Local Name: Unnamed Creek                                                                                                                                                                                                                                                                                                                                                                                                                                                   |       |                                                                                                                                                         |                  |        |                          |                          |                          |                          |                          |                          |                          |                          |                          |                          |                                     |                          |                          |                                     |                                     |                                     |                          |                           |  |  |  |  |      |                   |   |      |      |      |      |      |      |  |  |  |  |      |                 |    |      |      |  |  |  |  |  |  |  |  |      |                                                                                                                                                                                                                                                                                                                      |  |  |  |           |     |     |           |     |     |    |            |     |  |    |
| Watershed Code: 480-471159-00000-00000-0000-000-000-000-000-000-000                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                     |                          |                          |                                     |                                                                                                         |                                     |                          |                                                                                                                                                                                                  |                          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |       |                                                                                                                                                         |                  |        |                          |                          |                          |                          |                          |                          |                          |                          |                          |                          |                                     |                          |                          |                                     |                                     |                                     |                          |                           |  |  |  |  |      |                   |   |      |      |      |      |      |      |  |  |  |  |      |                 |    |      |      |  |  |  |  |  |  |  |  |      |                                                                                                                                                                                                                                                                                                                      |  |  |  |           |     |     |           |     |     |    |            |     |  |    |
| ILP Map#: 093M.028                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                                     |                          | ILP #: 10271             |                                     | NID Map #: 093M.028                                                                                     |                                     |                          | NID #: 3                                                                                                                                                                                         |                          | Reach #: 1.0                                                                                                                                                                                                                                                                                                                                                                                                                                                                |       | Site #: 112                                                                                                                                             |                  |        |                          |                          |                          |                          |                          |                          |                          |                          |                          |                          |                                     |                          |                          |                                     |                                     |                                     |                          |                           |  |  |  |  |      |                   |   |      |      |      |      |      |      |  |  |  |  |      |                 |    |      |      |  |  |  |  |  |  |  |  |      |                                                                                                                                                                                                                                                                                                                      |  |  |  |           |     |     |           |     |     |    |            |     |  |    |
| Field UTM (Z.E.N): 9.655117.6121090                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                     |                          |                          |                                     | Method: GP3                                                                                             |                                     |                          | Site Lg: 100                                                                                                                                                                                     |                          | Method: NS                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |       | Access: B                                                                                                                                               |                  |        |                          |                          |                          |                          |                          |                          |                          |                          |                          |                          |                                     |                          |                          |                                     |                                     |                                     |                          |                           |  |  |  |  |      |                   |   |      |      |      |      |      |      |  |  |  |  |      |                 |    |      |      |  |  |  |  |  |  |  |  |      |                                                                                                                                                                                                                                                                                                                      |  |  |  |           |     |     |           |     |     |    |            |     |  |    |
| GIS UTM (Z.E.N): 9.655117.6121072                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                                     |                          |                          |                                     |                                                                                                         |                                     |                          | Ref. Name:                                                                                                                                                                                       |                          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |       |                                                                                                                                                         |                  |        |                          |                          |                          |                          |                          |                          |                          |                          |                          |                          |                                     |                          |                          |                                     |                                     |                                     |                          |                           |  |  |  |  |      |                   |   |      |      |      |      |      |      |  |  |  |  |      |                 |    |      |      |  |  |  |  |  |  |  |  |      |                                                                                                                                                                                                                                                                                                                      |  |  |  |           |     |     |           |     |     |    |            |     |  |    |
| Date: 2006/07/01                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                                     |                          | Time: 14:20              |                                     | Agency: C016                                                                                            |                                     |                          | Crew: MJ/JL                                                                                                                                                                                      |                          | Fish Crd?: <input checked="" type="checkbox"/>                                                                                                                                                                                                                                                                                                                                                                                                                              |       | Incomplete: <input type="checkbox"/>                                                                                                                    |                  |        |                          |                          |                          |                          |                          |                          |                          |                          |                          |                          |                                     |                          |                          |                                     |                                     |                                     |                          |                           |  |  |  |  |      |                   |   |      |      |      |      |      |      |  |  |  |  |      |                 |    |      |      |  |  |  |  |  |  |  |  |      |                                                                                                                                                                                                                                                                                                                      |  |  |  |           |     |     |           |     |     |    |            |     |  |    |
| CHANNEL                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                                     |                          |                          |                                     |                                                                                                         |                                     |                          |                                                                                                                                                                                                  |                          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |       |                                                                                                                                                         |                  |        |                          |                          |                          |                          |                          |                          |                          |                          |                          |                          |                                     |                          |                          |                                     |                                     |                                     |                          |                           |  |  |  |  |      |                   |   |      |      |      |      |      |      |  |  |  |  |      |                 |    |      |      |  |  |  |  |  |  |  |  |      |                                                                                                                                                                                                                                                                                                                      |  |  |  |           |     |     |           |     |     |    |            |     |  |    |
| <table border="1" style="width:100%; border-collapse: collapse;"> <thead> <tr> <th></th> <th>Mtd</th> <th>width</th> <th>width</th> <th>width</th> <th>width</th> <th>width</th> <th>width</th> <th>width</th> <th>width</th> <th>width</th> <th>width</th> <th>Avg</th> </tr> </thead> <tbody> <tr> <td>Channel Width (m):</td> <td>T</td> <td>1.20</td> <td>1.00</td> <td>1.10</td> <td>1.20</td> <td>1.30</td> <td>0.90</td> <td></td> <td></td> <td></td> <td></td> <td>1.12</td> </tr> <tr> <td>Wetted Width (m):</td> <td>T</td> <td>0.60</td> <td>0.10</td> <td>0.30</td> <td>0.00</td> <td>0.00</td> <td>0.00</td> <td></td> <td></td> <td></td> <td></td> <td>0.17</td> </tr> <tr> <td>Pool Depth (m):</td> <td>MS</td> <td>0.19</td> <td>0.15</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>0.17</td> </tr> </tbody> </table> |                                     |                          |                          |                                     |                                                                                                         |                                     |                          |                                                                                                                                                                                                  |                          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |       |                                                                                                                                                         | Mtd              | width  | width                    | width                    | width                    | width                    | width                    | width                    | width                    | width                    | width                    | Avg                      | Channel Width (m):                  | T                        | 1.20                     | 1.00                                | 1.10                                | 1.20                                | 1.30                     | 0.90                      |  |  |  |  | 1.12 | Wetted Width (m): | T | 0.60 | 0.10 | 0.30 | 0.00 | 0.00 | 0.00 |  |  |  |  | 0.17 | Pool Depth (m): | MS | 0.19 | 0.15 |  |  |  |  |  |  |  |  | 0.17 | <table border="1" style="width:100%; border-collapse: collapse;"> <thead> <tr> <th></th> <th>Gadient %</th> <th>Mtd</th> <th>Avg</th> </tr> </thead> <tbody> <tr> <td>Method I:</td> <td>5.0</td> <td>6.0</td> <td>AL</td> </tr> <tr> <td>Method II:</td> <td>4.0</td> <td></td> <td>AL</td> </tr> </tbody> </table> |  |  |  | Gadient % | Mtd | Avg | Method I: | 5.0 | 6.0 | AL | Method II: | 4.0 |  | AL |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | Mtd                                 | width                    | width                    | width                               | width                                                                                                   | width                               | width                    | width                                                                                                                                                                                            | width                    | width                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | width | Avg                                                                                                                                                     |                  |        |                          |                          |                          |                          |                          |                          |                          |                          |                          |                          |                                     |                          |                          |                                     |                                     |                                     |                          |                           |  |  |  |  |      |                   |   |      |      |      |      |      |      |  |  |  |  |      |                 |    |      |      |  |  |  |  |  |  |  |  |      |                                                                                                                                                                                                                                                                                                                      |  |  |  |           |     |     |           |     |     |    |            |     |  |    |
| Channel Width (m):                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | T                                   | 1.20                     | 1.00                     | 1.10                                | 1.20                                                                                                    | 1.30                                | 0.90                     |                                                                                                                                                                                                  |                          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |       | 1.12                                                                                                                                                    |                  |        |                          |                          |                          |                          |                          |                          |                          |                          |                          |                          |                                     |                          |                          |                                     |                                     |                                     |                          |                           |  |  |  |  |      |                   |   |      |      |      |      |      |      |  |  |  |  |      |                 |    |      |      |  |  |  |  |  |  |  |  |      |                                                                                                                                                                                                                                                                                                                      |  |  |  |           |     |     |           |     |     |    |            |     |  |    |
| Wetted Width (m):                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | T                                   | 0.60                     | 0.10                     | 0.30                                | 0.00                                                                                                    | 0.00                                | 0.00                     |                                                                                                                                                                                                  |                          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |       | 0.17                                                                                                                                                    |                  |        |                          |                          |                          |                          |                          |                          |                          |                          |                          |                          |                                     |                          |                          |                                     |                                     |                                     |                          |                           |  |  |  |  |      |                   |   |      |      |      |      |      |      |  |  |  |  |      |                 |    |      |      |  |  |  |  |  |  |  |  |      |                                                                                                                                                                                                                                                                                                                      |  |  |  |           |     |     |           |     |     |    |            |     |  |    |
| Pool Depth (m):                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | MS                                  | 0.19                     | 0.15                     |                                     |                                                                                                         |                                     |                          |                                                                                                                                                                                                  |                          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |       | 0.17                                                                                                                                                    |                  |        |                          |                          |                          |                          |                          |                          |                          |                          |                          |                          |                                     |                          |                          |                                     |                                     |                                     |                          |                           |  |  |  |  |      |                   |   |      |      |      |      |      |      |  |  |  |  |      |                 |    |      |      |  |  |  |  |  |  |  |  |      |                                                                                                                                                                                                                                                                                                                      |  |  |  |           |     |     |           |     |     |    |            |     |  |    |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | Gadient %                           | Mtd                      | Avg                      |                                     |                                                                                                         |                                     |                          |                                                                                                                                                                                                  |                          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |       |                                                                                                                                                         |                  |        |                          |                          |                          |                          |                          |                          |                          |                          |                          |                          |                                     |                          |                          |                                     |                                     |                                     |                          |                           |  |  |  |  |      |                   |   |      |      |      |      |      |      |  |  |  |  |      |                 |    |      |      |  |  |  |  |  |  |  |  |      |                                                                                                                                                                                                                                                                                                                      |  |  |  |           |     |     |           |     |     |    |            |     |  |    |
| Method I:                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | 5.0                                 | 6.0                      | AL                       |                                     |                                                                                                         |                                     |                          |                                                                                                                                                                                                  |                          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |       |                                                                                                                                                         |                  |        |                          |                          |                          |                          |                          |                          |                          |                          |                          |                          |                                     |                          |                          |                                     |                                     |                                     |                          |                           |  |  |  |  |      |                   |   |      |      |      |      |      |      |  |  |  |  |      |                 |    |      |      |  |  |  |  |  |  |  |  |      |                                                                                                                                                                                                                                                                                                                      |  |  |  |           |     |     |           |     |     |    |            |     |  |    |
| Method II:                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | 4.0                                 |                          | AL                       |                                     |                                                                                                         |                                     |                          |                                                                                                                                                                                                  |                          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |       |                                                                                                                                                         |                  |        |                          |                          |                          |                          |                          |                          |                          |                          |                          |                          |                                     |                          |                          |                                     |                                     |                                     |                          |                           |  |  |  |  |      |                   |   |      |      |      |      |      |      |  |  |  |  |      |                 |    |      |      |  |  |  |  |  |  |  |  |      |                                                                                                                                                                                                                                                                                                                      |  |  |  |           |     |     |           |     |     |    |            |     |  |    |
| Wb Depth:                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                                     | .2                       | .4                       | .3                                  | Avg: 0.30                                                                                               |                                     |                          | Method: MS                                                                                                                                                                                       |                          | Stage: L <input checked="" type="checkbox"/> M <input type="checkbox"/> H <input type="checkbox"/>                                                                                                                                                                                                                                                                                                                                                                          |       | No Vis.Ch.: <input type="checkbox"/> Intermittent: <input checked="" type="checkbox"/><br>Dw: <input type="checkbox"/> Tribs.: <input type="checkbox"/> |                  |        |                          |                          |                          |                          |                          |                          |                          |                          |                          |                          |                                     |                          |                          |                                     |                                     |                                     |                          |                           |  |  |  |  |      |                   |   |      |      |      |      |      |      |  |  |  |  |      |                 |    |      |      |  |  |  |  |  |  |  |  |      |                                                                                                                                                                                                                                                                                                                      |  |  |  |           |     |     |           |     |     |    |            |     |  |    |
| COVER Total: T                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                                     |                          |                          |                                     |                                                                                                         |                                     |                          |                                                                                                                                                                                                  |                          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |       |                                                                                                                                                         |                  |        |                          |                          |                          |                          |                          |                          |                          |                          |                          |                          |                                     |                          |                          |                                     |                                     |                                     |                          |                           |  |  |  |  |      |                   |   |      |      |      |      |      |      |  |  |  |  |      |                 |    |      |      |  |  |  |  |  |  |  |  |      |                                                                                                                                                                                                                                                                                                                      |  |  |  |           |     |     |           |     |     |    |            |     |  |    |
| <table border="1" style="width:100%; border-collapse: collapse;"> <thead> <tr> <th>Type:</th> <th>SWD</th> <th>LWD</th> <th>B</th> <th>U</th> <th>DP</th> <th>OV</th> <th>IV</th> </tr> </thead> <tbody> <tr> <td>Amount:</td> <td>T</td> <td>N</td> <td>N</td> <td>S</td> <td>D</td> <td>T</td> <td>N</td> </tr> <tr> <td>Loc: P/S/O:</td> <td><input checked="" type="checkbox"/></td> <td><input type="checkbox"/></td> <td><input type="checkbox"/></td> <td><input checked="" type="checkbox"/></td> <td><input checked="" type="checkbox"/></td> <td><input checked="" type="checkbox"/></td> <td><input type="checkbox"/></td> </tr> </tbody> </table>                                                                                                                                                                                                                      |                                     |                          |                          |                                     |                                                                                                         |                                     |                          | Type:                                                                                                                                                                                            | SWD                      | LWD                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | B     | U                                                                                                                                                       | DP               | OV     | IV                       | Amount:                  | T                        | N                        | N                        | S                        | D                        | T                        | N                        | Loc: P/S/O:              | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | CROWN CLOSURE<br>3 41-70% |  |  |  |  |      |                   |   |      |      |      |      |      |      |  |  |  |  |      |                 |    |      |      |  |  |  |  |  |  |  |  |      |                                                                                                                                                                                                                                                                                                                      |  |  |  |           |     |     |           |     |     |    |            |     |  |    |
| Type:                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | SWD                                 | LWD                      | B                        | U                                   | DP                                                                                                      | OV                                  | IV                       |                                                                                                                                                                                                  |                          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |       |                                                                                                                                                         |                  |        |                          |                          |                          |                          |                          |                          |                          |                          |                          |                          |                                     |                          |                          |                                     |                                     |                                     |                          |                           |  |  |  |  |      |                   |   |      |      |      |      |      |      |  |  |  |  |      |                 |    |      |      |  |  |  |  |  |  |  |  |      |                                                                                                                                                                                                                                                                                                                      |  |  |  |           |     |     |           |     |     |    |            |     |  |    |
| Amount:                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | T                                   | N                        | N                        | S                                   | D                                                                                                       | T                                   | N                        |                                                                                                                                                                                                  |                          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |       |                                                                                                                                                         |                  |        |                          |                          |                          |                          |                          |                          |                          |                          |                          |                          |                                     |                          |                          |                                     |                                     |                                     |                          |                           |  |  |  |  |      |                   |   |      |      |      |      |      |      |  |  |  |  |      |                 |    |      |      |  |  |  |  |  |  |  |  |      |                                                                                                                                                                                                                                                                                                                      |  |  |  |           |     |     |           |     |     |    |            |     |  |    |
| Loc: P/S/O:                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/>                                                                     | <input checked="" type="checkbox"/> | <input type="checkbox"/> |                                                                                                                                                                                                  |                          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |       |                                                                                                                                                         |                  |        |                          |                          |                          |                          |                          |                          |                          |                          |                          |                          |                                     |                          |                          |                                     |                                     |                                     |                          |                           |  |  |  |  |      |                   |   |      |      |      |      |      |      |  |  |  |  |      |                 |    |      |      |  |  |  |  |  |  |  |  |      |                                                                                                                                                                                                                                                                                                                      |  |  |  |           |     |     |           |     |     |    |            |     |  |    |
| LWD: F DIST: E                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                                     |                          |                          |                                     |                                                                                                         |                                     |                          | INSTREAM VEG: N <input checked="" type="checkbox"/> A <input type="checkbox"/> M <input type="checkbox"/> V <input type="checkbox"/>                                                             |                          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |       |                                                                                                                                                         |                  |        |                          |                          |                          |                          |                          |                          |                          |                          |                          |                          |                                     |                          |                          |                                     |                                     |                                     |                          |                           |  |  |  |  |      |                   |   |      |      |      |      |      |      |  |  |  |  |      |                 |    |      |      |  |  |  |  |  |  |  |  |      |                                                                                                                                                                                                                                                                                                                      |  |  |  |           |     |     |           |     |     |    |            |     |  |    |
| LB SHP: V                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                                     |                          |                          |                                     |                                                                                                         |                                     |                          | RB SHP: V                                                                                                                                                                                        |                          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |       |                                                                                                                                                         |                  |        |                          |                          |                          |                          |                          |                          |                          |                          |                          |                          |                                     |                          |                          |                                     |                                     |                                     |                          |                           |  |  |  |  |      |                   |   |      |      |      |      |      |      |  |  |  |  |      |                 |    |      |      |  |  |  |  |  |  |  |  |      |                                                                                                                                                                                                                                                                                                                      |  |  |  |           |     |     |           |     |     |    |            |     |  |    |
| Texture: F <input checked="" type="checkbox"/> G <input type="checkbox"/> C <input checked="" type="checkbox"/> B <input type="checkbox"/> R <input type="checkbox"/> A <input type="checkbox"/>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                                     |                          |                          |                                     |                                                                                                         |                                     |                          | Texture: F <input checked="" type="checkbox"/> G <input type="checkbox"/> C <input checked="" type="checkbox"/> B <input type="checkbox"/> R <input type="checkbox"/> A <input type="checkbox"/> |                          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |       |                                                                                                                                                         |                  |        |                          |                          |                          |                          |                          |                          |                          |                          |                          |                          |                                     |                          |                          |                                     |                                     |                                     |                          |                           |  |  |  |  |      |                   |   |      |      |      |      |      |      |  |  |  |  |      |                 |    |      |      |  |  |  |  |  |  |  |  |      |                                                                                                                                                                                                                                                                                                                      |  |  |  |           |     |     |           |     |     |    |            |     |  |    |
| RIP: M                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                                     |                          |                          |                                     |                                                                                                         |                                     |                          | RIP: M                                                                                                                                                                                           |                          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |       |                                                                                                                                                         |                  |        |                          |                          |                          |                          |                          |                          |                          |                          |                          |                          |                                     |                          |                          |                                     |                                     |                                     |                          |                           |  |  |  |  |      |                   |   |      |      |      |      |      |      |  |  |  |  |      |                 |    |      |      |  |  |  |  |  |  |  |  |      |                                                                                                                                                                                                                                                                                                                      |  |  |  |           |     |     |           |     |     |    |            |     |  |    |
| STG: MF                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                                     |                          |                          |                                     |                                                                                                         |                                     |                          | STG: MF                                                                                                                                                                                          |                          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |       |                                                                                                                                                         |                  |        |                          |                          |                          |                          |                          |                          |                          |                          |                          |                          |                                     |                          |                          |                                     |                                     |                                     |                          |                           |  |  |  |  |      |                   |   |      |      |      |      |      |      |  |  |  |  |      |                 |    |      |      |  |  |  |  |  |  |  |  |      |                                                                                                                                                                                                                                                                                                                      |  |  |  |           |     |     |           |     |     |    |            |     |  |    |
| WATER                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                                     |                          |                          |                                     |                                                                                                         |                                     |                          |                                                                                                                                                                                                  |                          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |       |                                                                                                                                                         |                  |        |                          |                          |                          |                          |                          |                          |                          |                          |                          |                          |                                     |                          |                          |                                     |                                     |                                     |                          |                           |  |  |  |  |      |                   |   |      |      |      |      |      |      |  |  |  |  |      |                 |    |      |      |  |  |  |  |  |  |  |  |      |                                                                                                                                                                                                                                                                                                                      |  |  |  |           |     |     |           |     |     |    |            |     |  |    |
| EMS:                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                                     |                          |                          |                                     | Method: T3                                                                                              |                                     |                          |                                                                                                                                                                                                  |                          | Req #:                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |       |                                                                                                                                                         |                  |        |                          |                          |                          |                          |                          |                          |                          |                          |                          |                          |                                     |                          |                          |                                     |                                     |                                     |                          |                           |  |  |  |  |      |                   |   |      |      |      |      |      |      |  |  |  |  |      |                 |    |      |      |  |  |  |  |  |  |  |  |      |                                                                                                                                                                                                                                                                                                                      |  |  |  |           |     |     |           |     |     |    |            |     |  |    |
| Temp: 12                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                                     |                          |                          |                                     | Method: P4                                                                                              |                                     |                          |                                                                                                                                                                                                  |                          | Cond.: 70                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |       |                                                                                                                                                         |                  |        |                          |                          |                          |                          |                          |                          |                          |                          |                          |                          |                                     |                          |                          |                                     |                                     |                                     |                          |                           |  |  |  |  |      |                   |   |      |      |      |      |      |      |  |  |  |  |      |                 |    |      |      |  |  |  |  |  |  |  |  |      |                                                                                                                                                                                                                                                                                                                      |  |  |  |           |     |     |           |     |     |    |            |     |  |    |
| pH: 7.0                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                                     |                          |                          |                                     | Method: GE                                                                                              |                                     |                          |                                                                                                                                                                                                  |                          | Turb.: T <input type="checkbox"/> M <input type="checkbox"/> L <input type="checkbox"/> C <input checked="" type="checkbox"/>                                                                                                                                                                                                                                                                                                                                               |       |                                                                                                                                                         |                  |        |                          |                          |                          |                          |                          |                          |                          |                          |                          |                          |                                     |                          |                          |                                     |                                     |                                     |                          |                           |  |  |  |  |      |                   |   |      |      |      |      |      |      |  |  |  |  |      |                 |    |      |      |  |  |  |  |  |  |  |  |      |                                                                                                                                                                                                                                                                                                                      |  |  |  |           |     |     |           |     |     |    |            |     |  |    |
| Flood Signs: none                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                                     |                          |                          |                                     |                                                                                                         |                                     |                          |                                                                                                                                                                                                  |                          | Method: S4                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |       |                                                                                                                                                         |                  |        |                          |                          |                          |                          |                          |                          |                          |                          |                          |                          |                                     |                          |                          |                                     |                                     |                                     |                          |                           |  |  |  |  |      |                   |   |      |      |      |      |      |      |  |  |  |  |      |                 |    |      |      |  |  |  |  |  |  |  |  |      |                                                                                                                                                                                                                                                                                                                      |  |  |  |           |     |     |           |     |     |    |            |     |  |    |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                                     |                          |                          |                                     |                                                                                                         |                                     |                          |                                                                                                                                                                                                  |                          | Method: GE                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |       |                                                                                                                                                         |                  |        |                          |                          |                          |                          |                          |                          |                          |                          |                          |                          |                                     |                          |                          |                                     |                                     |                                     |                          |                           |  |  |  |  |      |                   |   |      |      |      |      |      |      |  |  |  |  |      |                 |    |      |      |  |  |  |  |  |  |  |  |      |                                                                                                                                                                                                                                                                                                                      |  |  |  |           |     |     |           |     |     |    |            |     |  |    |
| MORPHOLOGY                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                                     |                          |                          |                                     |                                                                                                         |                                     |                          |                                                                                                                                                                                                  |                          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |       |                                                                                                                                                         |                  |        |                          |                          |                          |                          |                          |                          |                          |                          |                          |                          |                                     |                          |                          |                                     |                                     |                                     |                          |                           |  |  |  |  |      |                   |   |      |      |      |      |      |      |  |  |  |  |      |                 |    |      |      |  |  |  |  |  |  |  |  |      |                                                                                                                                                                                                                                                                                                                      |  |  |  |           |     |     |           |     |     |    |            |     |  |    |
| Bed Material: Dominant: C                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                                     |                          |                          |                                     | Subdom: F                                                                                               |                                     |                          |                                                                                                                                                                                                  |                          | O1 B1 B2 B3 D1 D2 D3                                                                                                                                                                                                                                                                                                                                                                                                                                                        |       |                                                                                                                                                         |                  |        |                          |                          |                          |                          |                          |                          |                          |                          |                          |                          |                                     |                          |                          |                                     |                                     |                                     |                          |                           |  |  |  |  |      |                   |   |      |      |      |      |      |      |  |  |  |  |      |                 |    |      |      |  |  |  |  |  |  |  |  |      |                                                                                                                                                                                                                                                                                                                      |  |  |  |           |     |     |           |     |     |    |            |     |  |    |
| D95: 20.0 D (cm): 2.00                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                                     |                          |                          |                                     | Morph: CP                                                                                               |                                     |                          |                                                                                                                                                                                                  |                          | <table border="1" style="width:100%; border-collapse: collapse;"> <tr> <td><input type="checkbox"/></td> <td><input type="checkbox"/></td> <td><input type="checkbox"/></td> <td><input type="checkbox"/></td> <td><input type="checkbox"/></td> <td><input type="checkbox"/></td> <td><input type="checkbox"/></td> <td><input type="checkbox"/></td> </tr> </table>                                                                                                       |       |                                                                                                                                                         |                  |        | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |                          |                          |                                     |                          |                          |                                     |                                     |                                     |                          |                           |  |  |  |  |      |                   |   |      |      |      |      |      |      |  |  |  |  |      |                 |    |      |      |  |  |  |  |  |  |  |  |      |                                                                                                                                                                                                                                                                                                                      |  |  |  |           |     |     |           |     |     |    |            |     |  |    |
| <input type="checkbox"/>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | <input type="checkbox"/>            | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/>            | <input type="checkbox"/>                                                                                | <input type="checkbox"/>            | <input type="checkbox"/> |                                                                                                                                                                                                  |                          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |       |                                                                                                                                                         |                  |        |                          |                          |                          |                          |                          |                          |                          |                          |                          |                          |                                     |                          |                          |                                     |                                     |                                     |                          |                           |  |  |  |  |      |                   |   |      |      |      |      |      |      |  |  |  |  |      |                 |    |      |      |  |  |  |  |  |  |  |  |      |                                                                                                                                                                                                                                                                                                                      |  |  |  |           |     |     |           |     |     |    |            |     |  |    |
| Pattern: IR                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                                     |                          |                          |                                     | DISTURBANCE INDICATORS                                                                                  |                                     |                          |                                                                                                                                                                                                  |                          | C1 C2 C3 C4 C5 S1 S2 S3 S4 S5                                                                                                                                                                                                                                                                                                                                                                                                                                               |       |                                                                                                                                                         |                  |        |                          |                          |                          |                          |                          |                          |                          |                          |                          |                          |                                     |                          |                          |                                     |                                     |                                     |                          |                           |  |  |  |  |      |                   |   |      |      |      |      |      |      |  |  |  |  |      |                 |    |      |      |  |  |  |  |  |  |  |  |      |                                                                                                                                                                                                                                                                                                                      |  |  |  |           |     |     |           |     |     |    |            |     |  |    |
| Islands: N                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                                     |                          |                          |                                     |                                                                                                         |                                     |                          |                                                                                                                                                                                                  |                          | <table border="1" style="width:100%; border-collapse: collapse;"> <tr> <td><input type="checkbox"/></td> <td><input type="checkbox"/></td> <td><input type="checkbox"/></td> <td><input type="checkbox"/></td> <td><input type="checkbox"/></td> <td><input type="checkbox"/></td> <td><input type="checkbox"/></td> <td><input type="checkbox"/></td> <td><input type="checkbox"/></td> <td><input type="checkbox"/></td> <td><input type="checkbox"/></td> </tr> </table> |       |                                                                                                                                                         |                  |        | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/>            |                          |                          |                                     |                                     |                                     |                          |                           |  |  |  |  |      |                   |   |      |      |      |      |      |      |  |  |  |  |      |                 |    |      |      |  |  |  |  |  |  |  |  |      |                                                                                                                                                                                                                                                                                                                      |  |  |  |           |     |     |           |     |     |    |            |     |  |    |
| <input type="checkbox"/>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | <input type="checkbox"/>            | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/>            | <input type="checkbox"/>                                                                                | <input type="checkbox"/>            | <input type="checkbox"/> | <input type="checkbox"/>                                                                                                                                                                         | <input type="checkbox"/> | <input type="checkbox"/>                                                                                                                                                                                                                                                                                                                                                                                                                                                    |       |                                                                                                                                                         |                  |        |                          |                          |                          |                          |                          |                          |                          |                          |                          |                          |                                     |                          |                          |                                     |                                     |                                     |                          |                           |  |  |  |  |      |                   |   |      |      |      |      |      |      |  |  |  |  |      |                 |    |      |      |  |  |  |  |  |  |  |  |      |                                                                                                                                                                                                                                                                                                                      |  |  |  |           |     |     |           |     |     |    |            |     |  |    |
| Coupling: PC                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                                     |                          |                          |                                     |                                                                                                         |                                     |                          |                                                                                                                                                                                                  |                          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |       |                                                                                                                                                         |                  |        |                          |                          |                          |                          |                          |                          |                          |                          |                          |                          |                                     |                          |                          |                                     |                                     |                                     |                          |                           |  |  |  |  |      |                   |   |      |      |      |      |      |      |  |  |  |  |      |                 |    |      |      |  |  |  |  |  |  |  |  |      |                                                                                                                                                                                                                                                                                                                      |  |  |  |           |     |     |           |     |     |    |            |     |  |    |
| Confinement: OC                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                                     |                          |                          |                                     |                                                                                                         |                                     |                          |                                                                                                                                                                                                  |                          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |       |                                                                                                                                                         |                  |        |                          |                          |                          |                          |                          |                          |                          |                          |                          |                          |                                     |                          |                          |                                     |                                     |                                     |                          |                           |  |  |  |  |      |                   |   |      |      |      |      |      |      |  |  |  |  |      |                 |    |      |      |  |  |  |  |  |  |  |  |      |                                                                                                                                                                                                                                                                                                                      |  |  |  |           |     |     |           |     |     |    |            |     |  |    |
| FSZ: <input type="checkbox"/>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                                     |                          |                          |                                     | Bars: N <input checked="" type="checkbox"/>                                                             |                                     |                          |                                                                                                                                                                                                  |                          | SIDE <input type="checkbox"/> DIAG <input type="checkbox"/> MID <input type="checkbox"/> SPAN <input type="checkbox"/> BR <input type="checkbox"/>                                                                                                                                                                                                                                                                                                                          |       |                                                                                                                                                         |                  |        |                          |                          |                          |                          |                          |                          |                          |                          |                          |                          |                                     |                          |                          |                                     |                                     |                                     |                          |                           |  |  |  |  |      |                   |   |      |      |      |      |      |      |  |  |  |  |      |                 |    |      |      |  |  |  |  |  |  |  |  |      |                                                                                                                                                                                                                                                                                                                      |  |  |  |           |     |     |           |     |     |    |            |     |  |    |
| FEATURES                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                                     |                          |                          |                                     |                                                                                                         |                                     |                          |                                                                                                                                                                                                  |                          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |       |                                                                                                                                                         |                  |        |                          |                          |                          |                          |                          |                          |                          |                          |                          |                          |                                     |                          |                          |                                     |                                     |                                     |                          |                           |  |  |  |  |      |                   |   |      |      |      |      |      |      |  |  |  |  |      |                 |    |      |      |  |  |  |  |  |  |  |  |      |                                                                                                                                                                                                                                                                                                                      |  |  |  |           |     |     |           |     |     |    |            |     |  |    |
| NID Map                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | NID                                 | Type                     | Hgt                      | Method                              | Lg                                                                                                      | Method                              | Photo                    |                                                                                                                                                                                                  |                          | AirPhoto                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |       |                                                                                                                                                         | UTM (Z/E/N)      | Method |                          |                          |                          |                          |                          |                          |                          |                          |                          |                          |                                     |                          |                          |                                     |                                     |                                     |                          |                           |  |  |  |  |      |                   |   |      |      |      |      |      |      |  |  |  |  |      |                 |    |      |      |  |  |  |  |  |  |  |  |      |                                                                                                                                                                                                                                                                                                                      |  |  |  |           |     |     |           |     |     |    |            |     |  |    |
| 093M.028                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | 301                                 | FLD                      |                          | HC                                  | 15                                                                                                      | T                                   | R: DIG                   | F: 850                                                                                                                                                                                           | L:                       | #:                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |       |                                                                                                                                                         | 9.655125.6121075 | GIS    |                          |                          |                          |                          |                          |                          |                          |                          |                          |                          |                                     |                          |                          |                                     |                                     |                                     |                          |                           |  |  |  |  |      |                   |   |      |      |      |      |      |      |  |  |  |  |      |                 |    |      |      |  |  |  |  |  |  |  |  |      |                                                                                                                                                                                                                                                                                                                      |  |  |  |           |     |     |           |     |     |    |            |     |  |    |
| Comments: dewatered near mouth                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                                     |                          |                          |                                     |                                                                                                         |                                     |                          |                                                                                                                                                                                                  |                          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |       |                                                                                                                                                         |                  |        |                          |                          |                          |                          |                          |                          |                          |                          |                          |                          |                                     |                          |                          |                                     |                                     |                                     |                          |                           |  |  |  |  |      |                   |   |      |      |      |      |      |      |  |  |  |  |      |                 |    |      |      |  |  |  |  |  |  |  |  |      |                                                                                                                                                                                                                                                                                                                      |  |  |  |           |     |     |           |     |     |    |            |     |  |    |
| HABITAT QUALITY                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                                     |                          |                          |                                     |                                                                                                         |                                     |                          |                                                                                                                                                                                                  |                          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |       |                                                                                                                                                         |                  |        |                          |                          |                          |                          |                          |                          |                          |                          |                          |                          |                                     |                          |                          |                                     |                                     |                                     |                          |                           |  |  |  |  |      |                   |   |      |      |      |      |      |      |  |  |  |  |      |                 |    |      |      |  |  |  |  |  |  |  |  |      |                                                                                                                                                                                                                                                                                                                      |  |  |  |           |     |     |           |     |     |    |            |     |  |    |
| Name                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                                     |                          |                          |                                     | Comments                                                                                                |                                     |                          |                                                                                                                                                                                                  |                          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |       |                                                                                                                                                         |                  |        |                          |                          |                          |                          |                          |                          |                          |                          |                          |                          |                                     |                          |                          |                                     |                                     |                                     |                          |                           |  |  |  |  |      |                   |   |      |      |      |      |      |      |  |  |  |  |      |                 |    |      |      |  |  |  |  |  |  |  |  |      |                                                                                                                                                                                                                                                                                                                      |  |  |  |           |     |     |           |     |     |    |            |     |  |    |
| Other                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                                     |                          |                          |                                     | NFH - seasonal stream unutilized by fish. Second sampling. Only v. poor rearing available when watered. |                                     |                          |                                                                                                                                                                                                  |                          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |       |                                                                                                                                                         |                  |        |                          |                          |                          |                          |                          |                          |                          |                          |                          |                          |                                     |                          |                          |                                     |                                     |                                     |                          |                           |  |  |  |  |      |                   |   |      |      |      |      |      |      |  |  |  |  |      |                 |    |      |      |  |  |  |  |  |  |  |  |      |                                                                                                                                                                                                                                                                                                                      |  |  |  |           |     |     |           |     |     |    |            |     |  |    |
| PHOTOS                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                                     |                          |                          |                                     |                                                                                                         |                                     |                          |                                                                                                                                                                                                  |                          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |       |                                                                                                                                                         |                  |        |                          |                          |                          |                          |                          |                          |                          |                          |                          |                          |                                     |                          |                          |                                     |                                     |                                     |                          |                           |  |  |  |  |      |                   |   |      |      |      |      |      |      |  |  |  |  |      |                 |    |      |      |  |  |  |  |  |  |  |  |      |                                                                                                                                                                                                                                                                                                                      |  |  |  |           |     |     |           |     |     |    |            |     |  |    |

# FDIS Site Card

## 2006 RFFHI Babine L. Tributaries - Re-sampling

| 2006 RFFHI Babine L. Tributaries - Re-sampling                  |     |        |          |          | Reach #        | ILP Map # | ILP # | Site |
|-----------------------------------------------------------------|-----|--------|----------|----------|----------------|-----------|-------|------|
| Watershed Code: 480-471159-00000-00000-0000-000-000-000-000-000 |     |        |          |          | 1.0            | 093M.028  | 10271 | 112  |
| Photo                                                           |     | Foc Lg | Dir      | Comments |                |           |       |      |
| R:                                                              | DIG | F: 850 | STD      | U        | feature        |           |       |      |
| R:                                                              | DIG | F: 851 | STD      | U        | tape for scale |           |       |      |
| R:                                                              | DIG | F: 852 | STD      | D        | tape for scale |           |       |      |
| C O M M E N T S                                                 |     |        |          |          |                |           |       |      |
| Section                                                         |     |        | Comments |          |                |           |       |      |
| SITE CARD                                                       |     |        | S6       |          |                |           |       |      |



# FDIS Fish Card

## 2006 RFFHI Babine L. Tributaries - Re-sampling

Watershed Code:480-471159-00000-00000-0000-0000-000-000-000-000-000-000

Reach #1.0

ILP Map #093M.028

ILP #10271

|                                                                                                                  |          |       |                          |            |         |            |          |                |           |         |            |       |
|------------------------------------------------------------------------------------------------------------------|----------|-------|--------------------------|------------|---------|------------|----------|----------------|-----------|---------|------------|-------|
| WATERBODY                                                                                                        |          |       |                          |            |         |            |          |                |           |         |            |       |
| Gazetted Name:Local: Unnamed Creek                                                                               |          |       |                          |            |         |            |          |                |           |         |            |       |
| Project Code: 480-000000-00000-00000-0000-000-000-000-000-000-0                                                  |          |       |                          |            |         |            |          |                |           |         |            |       |
| WS Code: 480-471159-00000-00000-0000-000-000-000-000-000-000                                                     |          |       |                          |            |         |            |          |                |           |         |            |       |
| Waterbody ID:ILP Map #: 093M.028ILP #: 10271Reach #: 1 -                                                         |          |       |                          |            |         |            |          |                |           |         |            |       |
| Project ID: 06-BABL-00015953-2006Lake/Stream: SLake From Date:                                                   |          |       |                          |            |         |            |          |                |           |         |            |       |
| Fish Permit #: SM06-24176Date: 2006/07/01To: 2006/07/01Agency: C016Crew: MJ/JLResample: <input type="checkbox"/> |          |       |                          |            |         |            |          |                |           |         |            |       |
| SITE / METHOD                                                                                                    |          |       |                          |            |         |            |          |                |           |         |            |       |
| Site#                                                                                                            | NID Map  | NID # | UTM:Zone/East/North/Mthd |            |         | MTD/NO     |          | Temp           | Cond      | Turbid  | Comment    |       |
| 112                                                                                                              | 093M.028 | 3     | 9                        | 665117     | 6121090 | GP3        | VO       | 1              | 12        | 70      | C          |       |
| 112                                                                                                              | 093M.028 | 3     | 9                        | 665117     | 6121090 | GP3        | EF       | 1              | 12        | 70      | C          |       |
| A. GEAR SETTINGS                                                                                                 |          |       |                          |            |         |            |          |                |           |         |            |       |
| Site#                                                                                                            | MTD/NO   |       | H/P                      | Date In    | Time In | Date Out   | Time Out |                | Comment   |         |            |       |
| 112                                                                                                              | EF       | 1     | 1                        | 2006/07/01 | 14:20   | 2006/07/01 | 14:23    |                |           |         |            |       |
| 112                                                                                                              | VO       | 1     | 1                        | 2006/07/01 | 14:20   | 2006/07/01 | 14:21    |                |           |         |            |       |
| C. ELECTROFISHER SPECIFICATIONS                                                                                  |          |       |                          |            |         |            |          |                |           |         |            |       |
| Site#                                                                                                            | MTD/NO   |       | H/P                      | Encl       | Sec     | Length     | Width    | Voltage        | Frequency | Pulse   | Make       | Model |
| 112                                                                                                              | EF       | 1     | 1                        | O          | 22      | 15.0       | 0.3      | 600            | 80        | 6       | SMITH-ROOT | 12 B  |
| FISH SUMMARY                                                                                                     |          |       |                          |            |         |            |          |                |           |         |            |       |
| Site#                                                                                                            | MTD/NO   |       | H/P                      | Species    | Stage   | Age        | Total #  | Lgth (Min/Max) |           | FishAct | Comment    |       |
| 112                                                                                                              | EF       | 1     | 1                        | NFC        |         |            | 0        |                |           |         |            |       |
| 112                                                                                                              | VO       | 1     | 1                        | NFC        |         |            | 0        |                |           |         |            |       |

# FDIS Reach Card

## 2006 RFFHI Babine L. Tributaries - Re-sampling

|                                                                                                                                                                                |                      |                |                                                                                                                                                                                                |                                                  |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------|----------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------|
| Watershed Code: 480-471159-00000-00000-0000-0000-000-000-000-000-000-000                                                                                                       |                      | Reach #<br>1.0 | ILP Map #<br>093M.028                                                                                                                                                                          | ILP #<br>10271                                   |
| PROJECT                                                                                                                                                                        |                      |                |                                                                                                                                                                                                |                                                  |
| Project Name: Babine Lake Face Unit Re-sampling - 2006<br>Stream Name (gaz.): BABINE RIVER<br>Project Watershed Code: 480-000000-00000-00000-0000-0000-000-000-000-000-000-000 |                      |                |                                                                                                                                                                                                |                                                  |
| Project Code: 06-BABL-00015953-2006                                                                                                                                            |                      |                |                                                                                                                                                                                                |                                                  |
| WATERSHED                                                                                                                                                                      |                      |                |                                                                                                                                                                                                |                                                  |
| Reach Watershed Code: 480-471159-00000-00000-0000-0000-000-000-000-000-000-000                                                                                                 |                      |                |                                                                                                                                                                                                |                                                  |
| ILP Map #: 093M.028                                                                                                                                                            |                      | ILP #: 10271   | Reach #: 1.0                                                                                                                                                                                   | NID Map #: 093M.028                              |
|                                                                                                                                                                                |                      |                |                                                                                                                                                                                                | NID #: 20394                                     |
| Air Photos                                                                                                                                                                     |                      | Names          |                                                                                                                                                                                                | UTM(Zone/East/North/Method)                      |
| LINE:                                                                                                                                                                          | Gaz.:                |                |                                                                                                                                                                                                | 9.655721.6121434                                 |
| #:                                                                                                                                                                             | Local: Unnamed Creek |                |                                                                                                                                                                                                | GIS                                              |
|                                                                                                                                                                                |                      |                |                                                                                                                                                                                                | Sample Type: B Wetland: <input type="checkbox"/> |
| SURVEY INFO                                                                                                                                                                    |                      |                |                                                                                                                                                                                                |                                                  |
| Date: 2006/06/20                                                                                                                                                               |                      | Agency: C016   |                                                                                                                                                                                                | Crew: MJ/JL                                      |
| ATTRIBUTES                                                                                                                                                                     |                      |                |                                                                                                                                                                                                |                                                  |
| Length (km): .73                                                                                                                                                               |                      | Gradient: 8.01 | Setting: VW                                                                                                                                                                                    | DISTURBANCE                                      |
| DS Elev.: 717                                                                                                                                                                  |                      | Order: 2       | Open water: A                                                                                                                                                                                  | INDICATORS                                       |
| US Elev: 776                                                                                                                                                                   |                      | Magnitude: 2   | Confinement: OC                                                                                                                                                                                |                                                  |
|                                                                                                                                                                                |                      | BGC Zone: SBS  | Coupling: DC                                                                                                                                                                                   |                                                  |
| Valley Flat: N                                                                                                                                                                 |                      | C/D:           | Islands: N                                                                                                                                                                                     |                                                  |
| Active Floodplain Visible: <input type="checkbox"/>                                                                                                                            |                      | Est. Width:    | Bars: <input checked="" type="checkbox"/> N <input type="checkbox"/> SIDE <input type="checkbox"/> DIAG <input type="checkbox"/> MID <input type="checkbox"/> SPAN <input type="checkbox"/> BR |                                                  |
| Channel Pattern: SI                                                                                                                                                            |                      |                | Mass Movement: M                                                                                                                                                                               | Exposed/Eroded: NV                               |
|                                                                                                                                                                                |                      |                | Riparian Veg.: M                                                                                                                                                                               | Landuse: NO                                      |

|          |          |      |
|----------|----------|------|
| MAPS     |          |      |
| Map Type | Map #    | Year |
| TRIM     | 093M.028 | 2006 |



# FDIS Site Card

## 2006 RFFHI Babine L. Tributaries - Re-sampling

Watershed Code: 480-466800-12000-47139-0000-0000-000-000-000-000-000

Reach # 1.1 ILP Map # 093M.028 ILP # 10274 Site 113

| PROJECT                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                                                                            |                                                                            |                                                                            |                                                                            |                                                                            |                                                                            |                                                                            |                          |                                                                                                    |                          |                                      |      |                                                   |       |                              |                          |                                   |                          |                          |                          |                          |                          |                          |                                     |                          |                                     |                          |                          |                |      |             |                                                                            |                                                                            |                                                                            |                                                                            |                                                                            |                                                                            |                                                                            |    |      |      |      |      |      |      |  |  |  |  |      |                 |    |      |      |      |  |  |  |  |  |  |  |      |                                                                                                                                                                                                                                                                                                                                       |  |  |  |           |     |     |           |     |     |    |            |  |  |    |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------|----------------------------------------------------------------------------|----------------------------------------------------------------------------|----------------------------------------------------------------------------|----------------------------------------------------------------------------|----------------------------------------------------------------------------|----------------------------------------------------------------------------|--------------------------|----------------------------------------------------------------------------------------------------|--------------------------|--------------------------------------|------|---------------------------------------------------|-------|------------------------------|--------------------------|-----------------------------------|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|-------------------------------------|--------------------------|-------------------------------------|--------------------------|--------------------------|----------------|------|-------------|----------------------------------------------------------------------------|----------------------------------------------------------------------------|----------------------------------------------------------------------------|----------------------------------------------------------------------------|----------------------------------------------------------------------------|----------------------------------------------------------------------------|----------------------------------------------------------------------------|----|------|------|------|------|------|------|--|--|--|--|------|-----------------|----|------|------|------|--|--|--|--|--|--|--|------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|--|--|-----------|-----|-----|-----------|-----|-----|----|------------|--|--|----|
| <div style="display: flex; justify-content: space-between;"> <div> Project Name: Babine Lake Face Unit Re-sampling - 2006<br/> Stream Name (gaz.): BABINE RIVER<br/> Project Watershed Code: 480-000000-00000-00000-0000-000-000-000-000-000 </div> <div> Project Code: 06-BABL-00015953-2006 </div> </div>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                                                                            |                                                                            |                                                                            |                                                                            |                                                                            |                                                                            |                                                                            |                          |                                                                                                    |                          |                                      |      |                                                   |       |                              |                          |                                   |                          |                          |                          |                          |                          |                          |                                     |                          |                                     |                          |                          |                |      |             |                                                                            |                                                                            |                                                                            |                                                                            |                                                                            |                                                                            |                                                                            |    |      |      |      |      |      |      |  |  |  |  |      |                 |    |      |      |      |  |  |  |  |  |  |  |      |                                                                                                                                                                                                                                                                                                                                       |  |  |  |           |     |     |           |     |     |    |            |  |  |    |
| WATERSHED                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                                                                            |                                                                            |                                                                            |                                                                            |                                                                            |                                                                            |                                                                            |                          |                                                                                                    |                          |                                      |      |                                                   |       |                              |                          |                                   |                          |                          |                          |                          |                          |                          |                                     |                          |                                     |                          |                          |                |      |             |                                                                            |                                                                            |                                                                            |                                                                            |                                                                            |                                                                            |                                                                            |    |      |      |      |      |      |      |  |  |  |  |      |                 |    |      |      |      |  |  |  |  |  |  |  |      |                                                                                                                                                                                                                                                                                                                                       |  |  |  |           |     |     |           |     |     |    |            |  |  |    |
| Gazetted Name: _____ Local Name: Unnamed Creek<br>Watershed Code: 480-466800-12000-47139-0000-0000-000-000-000-000-000<br>ILP Map #: 093M.028 ILP #: 10274 NID Map #: 093M.028 NID #: 14 Reach #: 1.1 Site #: 113<br>Field UTM (Z.E.N): 9.656438.6122034 Method: GP3 Site Lg: 100 Method: NS Access: FT<br>GIS UTM (Z.E.N): 9.656438.6122029 Ref. Name: _____<br>Date: 2006/08/01 Time: 10:55 Agency: C016 Crew: MJ/JL Fish Crd?: <input type="checkbox"/> Incomplete: <input type="checkbox"/>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                                                                            |                                                                            |                                                                            |                                                                            |                                                                            |                                                                            |                                                                            |                          |                                                                                                    |                          |                                      |      |                                                   |       |                              |                          |                                   |                          |                          |                          |                          |                          |                          |                                     |                          |                                     |                          |                          |                |      |             |                                                                            |                                                                            |                                                                            |                                                                            |                                                                            |                                                                            |                                                                            |    |      |      |      |      |      |      |  |  |  |  |      |                 |    |      |      |      |  |  |  |  |  |  |  |      |                                                                                                                                                                                                                                                                                                                                       |  |  |  |           |     |     |           |     |     |    |            |  |  |    |
| CHANNEL                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                                                                            |                                                                            |                                                                            |                                                                            |                                                                            |                                                                            |                                                                            |                          |                                                                                                    |                          |                                      |      |                                                   |       |                              |                          |                                   |                          |                          |                          |                          |                          |                          |                                     |                          |                                     |                          |                          |                |      |             |                                                                            |                                                                            |                                                                            |                                                                            |                                                                            |                                                                            |                                                                            |    |      |      |      |      |      |      |  |  |  |  |      |                 |    |      |      |      |  |  |  |  |  |  |  |      |                                                                                                                                                                                                                                                                                                                                       |  |  |  |           |     |     |           |     |     |    |            |  |  |    |
| <table border="1" style="width:100%; border-collapse: collapse; text-align: center;"> <thead> <tr> <th></th> <th>Mtd</th> <th>width</th> <th>width</th> <th>width</th> <th>width</th> <th>width</th> <th>width</th> <th>width</th> <th>width</th> <th>width</th> <th>width</th> <th>Avg</th> </tr> </thead> <tbody> <tr> <td>Channel Width (m):</td> <td>T</td> <td>2.30</td> <td>2.40</td> <td>2.30</td> <td>2.50</td> <td>1.90</td> <td>2.00</td> <td></td> <td></td> <td></td> <td></td> <td>2.23</td> </tr> <tr> <td>Wetted Width (m):</td> <td>GE</td> <td>0.00</td> <td>0.00</td> <td>0.00</td> <td>0.00</td> <td>0.00</td> <td>0.00</td> <td></td> <td></td> <td></td> <td></td> <td>0.00</td> </tr> <tr> <td>Pool Depth (m):</td> <td>GE</td> <td>0.00</td> <td>0.00</td> <td>0.00</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>0.00</td> </tr> </tbody> </table>                                                                                                                                                                                                                                                                                                                                                                        |                                                                            |                                                                            |                                                                            |                                                                            |                                                                            |                                                                            |                                                                            |                          |                                                                                                    |                          |                                      |      | Mtd                                               | width | width                        | width                    | width                             | width                    | width                    | width                    | width                    | width                    | width                    | Avg                                 | Channel Width (m):       | T                                   | 2.30                     | 2.40                     | 2.30           | 2.50 | 1.90        | 2.00                                                                       |                                                                            |                                                                            |                                                                            |                                                                            | 2.23                                                                       | Wetted Width (m):                                                          | GE | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |  |  |  |  | 0.00 | Pool Depth (m): | GE | 0.00 | 0.00 | 0.00 |  |  |  |  |  |  |  | 0.00 | <table border="1" style="width:100%; border-collapse: collapse; text-align: center;"> <thead> <tr> <th></th> <th>Gadient %</th> <th>Mtd</th> <th>Avg</th> </tr> </thead> <tbody> <tr> <td>Method I:</td> <td>5.0</td> <td>5.0</td> <td>AL</td> </tr> <tr> <td>Method II:</td> <td></td> <td></td> <td>AL</td> </tr> </tbody> </table> |  |  |  | Gadient % | Mtd | Avg | Method I: | 5.0 | 5.0 | AL | Method II: |  |  | AL |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | Mtd                                                                        | width                                                                      | width                                                                      | width                                                                      | width                                                                      | width                                                                      | width                                                                      | width                    | width                                                                                              | width                    | width                                | Avg  |                                                   |       |                              |                          |                                   |                          |                          |                          |                          |                          |                          |                                     |                          |                                     |                          |                          |                |      |             |                                                                            |                                                                            |                                                                            |                                                                            |                                                                            |                                                                            |                                                                            |    |      |      |      |      |      |      |  |  |  |  |      |                 |    |      |      |      |  |  |  |  |  |  |  |      |                                                                                                                                                                                                                                                                                                                                       |  |  |  |           |     |     |           |     |     |    |            |  |  |    |
| Channel Width (m):                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | T                                                                          | 2.30                                                                       | 2.40                                                                       | 2.30                                                                       | 2.50                                                                       | 1.90                                                                       | 2.00                                                                       |                          |                                                                                                    |                          |                                      | 2.23 |                                                   |       |                              |                          |                                   |                          |                          |                          |                          |                          |                          |                                     |                          |                                     |                          |                          |                |      |             |                                                                            |                                                                            |                                                                            |                                                                            |                                                                            |                                                                            |                                                                            |    |      |      |      |      |      |      |  |  |  |  |      |                 |    |      |      |      |  |  |  |  |  |  |  |      |                                                                                                                                                                                                                                                                                                                                       |  |  |  |           |     |     |           |     |     |    |            |  |  |    |
| Wetted Width (m):                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | GE                                                                         | 0.00                                                                       | 0.00                                                                       | 0.00                                                                       | 0.00                                                                       | 0.00                                                                       | 0.00                                                                       |                          |                                                                                                    |                          |                                      | 0.00 |                                                   |       |                              |                          |                                   |                          |                          |                          |                          |                          |                          |                                     |                          |                                     |                          |                          |                |      |             |                                                                            |                                                                            |                                                                            |                                                                            |                                                                            |                                                                            |                                                                            |    |      |      |      |      |      |      |  |  |  |  |      |                 |    |      |      |      |  |  |  |  |  |  |  |      |                                                                                                                                                                                                                                                                                                                                       |  |  |  |           |     |     |           |     |     |    |            |  |  |    |
| Pool Depth (m):                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | GE                                                                         | 0.00                                                                       | 0.00                                                                       | 0.00                                                                       |                                                                            |                                                                            |                                                                            |                          |                                                                                                    |                          |                                      | 0.00 |                                                   |       |                              |                          |                                   |                          |                          |                          |                          |                          |                          |                                     |                          |                                     |                          |                          |                |      |             |                                                                            |                                                                            |                                                                            |                                                                            |                                                                            |                                                                            |                                                                            |    |      |      |      |      |      |      |  |  |  |  |      |                 |    |      |      |      |  |  |  |  |  |  |  |      |                                                                                                                                                                                                                                                                                                                                       |  |  |  |           |     |     |           |     |     |    |            |  |  |    |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | Gadient %                                                                  | Mtd                                                                        | Avg                                                                        |                                                                            |                                                                            |                                                                            |                                                                            |                          |                                                                                                    |                          |                                      |      |                                                   |       |                              |                          |                                   |                          |                          |                          |                          |                          |                          |                                     |                          |                                     |                          |                          |                |      |             |                                                                            |                                                                            |                                                                            |                                                                            |                                                                            |                                                                            |                                                                            |    |      |      |      |      |      |      |  |  |  |  |      |                 |    |      |      |      |  |  |  |  |  |  |  |      |                                                                                                                                                                                                                                                                                                                                       |  |  |  |           |     |     |           |     |     |    |            |  |  |    |
| Method I:                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | 5.0                                                                        | 5.0                                                                        | AL                                                                         |                                                                            |                                                                            |                                                                            |                                                                            |                          |                                                                                                    |                          |                                      |      |                                                   |       |                              |                          |                                   |                          |                          |                          |                          |                          |                          |                                     |                          |                                     |                          |                          |                |      |             |                                                                            |                                                                            |                                                                            |                                                                            |                                                                            |                                                                            |                                                                            |    |      |      |      |      |      |      |  |  |  |  |      |                 |    |      |      |      |  |  |  |  |  |  |  |      |                                                                                                                                                                                                                                                                                                                                       |  |  |  |           |     |     |           |     |     |    |            |  |  |    |
| Method II:                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                                                                            |                                                                            | AL                                                                         |                                                                            |                                                                            |                                                                            |                                                                            |                          |                                                                                                    |                          |                                      |      |                                                   |       |                              |                          |                                   |                          |                          |                          |                          |                          |                          |                                     |                          |                                     |                          |                          |                |      |             |                                                                            |                                                                            |                                                                            |                                                                            |                                                                            |                                                                            |                                                                            |    |      |      |      |      |      |      |  |  |  |  |      |                 |    |      |      |      |  |  |  |  |  |  |  |      |                                                                                                                                                                                                                                                                                                                                       |  |  |  |           |     |     |           |     |     |    |            |  |  |    |
| Wb Depth: <table border="1" style="display: inline-table; text-align: center;"><tr><td>.3</td><td>.3</td><td>.3</td></tr></table>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                                                                            | .3                                                                         | .3                                                                         | .3                                                                         | Avg: 0.30                                                                  |                                                                            | Method: MS                                                                 |                          | Stage: L <input checked="" type="checkbox"/> M <input type="checkbox"/> H <input type="checkbox"/> |                          | No Vis.Ch.: <input type="checkbox"/> |      | Intermittent: <input checked="" type="checkbox"/> |       | Dw: <input type="checkbox"/> |                          | Tribes.: <input type="checkbox"/> |                          |                          |                          |                          |                          |                          |                                     |                          |                                     |                          |                          |                |      |             |                                                                            |                                                                            |                                                                            |                                                                            |                                                                            |                                                                            |                                                                            |    |      |      |      |      |      |      |  |  |  |  |      |                 |    |      |      |      |  |  |  |  |  |  |  |      |                                                                                                                                                                                                                                                                                                                                       |  |  |  |           |     |     |           |     |     |    |            |  |  |    |
| .3                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | .3                                                                         | .3                                                                         |                                                                            |                                                                            |                                                                            |                                                                            |                                                                            |                          |                                                                                                    |                          |                                      |      |                                                   |       |                              |                          |                                   |                          |                          |                          |                          |                          |                          |                                     |                          |                                     |                          |                          |                |      |             |                                                                            |                                                                            |                                                                            |                                                                            |                                                                            |                                                                            |                                                                            |    |      |      |      |      |      |      |  |  |  |  |      |                 |    |      |      |      |  |  |  |  |  |  |  |      |                                                                                                                                                                                                                                                                                                                                       |  |  |  |           |     |     |           |     |     |    |            |  |  |    |
| <div style="display: flex; justify-content: space-between;"> <div> COVER<br/> Total: N<br/> <table border="1" style="width:100%; border-collapse: collapse; text-align: center;"> <thead> <tr> <th>Type:</th> <th>SWD</th> <th>LWD</th> <th>B</th> <th>U</th> <th>DP</th> <th>OV</th> <th>IV</th> </tr> </thead> <tbody> <tr> <td>Amount:</td> <td>N</td> <td>N</td> <td>N</td> <td>N</td> <td>N</td> <td>N</td> <td>N</td> </tr> <tr> <td>Loc: P/S/O:</td> <td><input type="checkbox"/><input type="checkbox"/><input type="checkbox"/></td> <td><input type="checkbox"/><input type="checkbox"/><input type="checkbox"/></td> <td><input type="checkbox"/><input type="checkbox"/><input type="checkbox"/></td> <td><input type="checkbox"/><input type="checkbox"/><input type="checkbox"/></td> <td><input type="checkbox"/><input type="checkbox"/><input type="checkbox"/></td> <td><input type="checkbox"/><input type="checkbox"/><input type="checkbox"/></td> <td><input type="checkbox"/><input type="checkbox"/><input type="checkbox"/></td> </tr> </tbody> </table> </div> <div> CROWN CLOSURE<br/> 2 21-40%<br/> INSTREAM VEG: N <input checked="" type="checkbox"/> A <input type="checkbox"/> M <input type="checkbox"/> V <input type="checkbox"/> </div> </div> |                                                                            |                                                                            |                                                                            |                                                                            |                                                                            |                                                                            |                                                                            |                          |                                                                                                    |                          |                                      |      |                                                   |       | Type:                        | SWD                      | LWD                               | B                        | U                        | DP                       | OV                       | IV                       | Amount:                  | N                                   | N                        | N                                   | N                        | N                        | N              | N    | Loc: P/S/O: | <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> | <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> | <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> | <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> | <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> | <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> | <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> |    |      |      |      |      |      |      |  |  |  |  |      |                 |    |      |      |      |  |  |  |  |  |  |  |      |                                                                                                                                                                                                                                                                                                                                       |  |  |  |           |     |     |           |     |     |    |            |  |  |    |
| Type:                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | SWD                                                                        | LWD                                                                        | B                                                                          | U                                                                          | DP                                                                         | OV                                                                         | IV                                                                         |                          |                                                                                                    |                          |                                      |      |                                                   |       |                              |                          |                                   |                          |                          |                          |                          |                          |                          |                                     |                          |                                     |                          |                          |                |      |             |                                                                            |                                                                            |                                                                            |                                                                            |                                                                            |                                                                            |                                                                            |    |      |      |      |      |      |      |  |  |  |  |      |                 |    |      |      |      |  |  |  |  |  |  |  |      |                                                                                                                                                                                                                                                                                                                                       |  |  |  |           |     |     |           |     |     |    |            |  |  |    |
| Amount:                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | N                                                                          | N                                                                          | N                                                                          | N                                                                          | N                                                                          | N                                                                          | N                                                                          |                          |                                                                                                    |                          |                                      |      |                                                   |       |                              |                          |                                   |                          |                          |                          |                          |                          |                          |                                     |                          |                                     |                          |                          |                |      |             |                                                                            |                                                                            |                                                                            |                                                                            |                                                                            |                                                                            |                                                                            |    |      |      |      |      |      |      |  |  |  |  |      |                 |    |      |      |      |  |  |  |  |  |  |  |      |                                                                                                                                                                                                                                                                                                                                       |  |  |  |           |     |     |           |     |     |    |            |  |  |    |
| Loc: P/S/O:                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> | <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> | <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> | <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> | <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> | <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> | <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> |                          |                                                                                                    |                          |                                      |      |                                                   |       |                              |                          |                                   |                          |                          |                          |                          |                          |                          |                                     |                          |                                     |                          |                          |                |      |             |                                                                            |                                                                            |                                                                            |                                                                            |                                                                            |                                                                            |                                                                            |    |      |      |      |      |      |      |  |  |  |  |      |                 |    |      |      |      |  |  |  |  |  |  |  |      |                                                                                                                                                                                                                                                                                                                                       |  |  |  |           |     |     |           |     |     |    |            |  |  |    |
| <div style="display: flex; justify-content: space-between;"> <div> LWD: F<br/> LB SHP: O<br/> Texture: F <input checked="" type="checkbox"/> G <input checked="" type="checkbox"/> C <input checked="" type="checkbox"/> B <input type="checkbox"/> R <input type="checkbox"/> A <input type="checkbox"/><br/> RIP: C<br/> STG: MF </div> <div> DIST: E<br/> RB SHP: O<br/> Texture: F <input checked="" type="checkbox"/> G <input checked="" type="checkbox"/> C <input checked="" type="checkbox"/> B <input type="checkbox"/> R <input type="checkbox"/> A <input type="checkbox"/><br/> RIP: C<br/> STG: MF </div> </div>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                                                                            |                                                                            |                                                                            |                                                                            |                                                                            |                                                                            |                                                                            |                          |                                                                                                    |                          |                                      |      |                                                   |       |                              |                          |                                   |                          |                          |                          |                          |                          |                          |                                     |                          |                                     |                          |                          |                |      |             |                                                                            |                                                                            |                                                                            |                                                                            |                                                                            |                                                                            |                                                                            |    |      |      |      |      |      |      |  |  |  |  |      |                 |    |      |      |      |  |  |  |  |  |  |  |      |                                                                                                                                                                                                                                                                                                                                       |  |  |  |           |     |     |           |     |     |    |            |  |  |    |
| WATER                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                                                                            |                                                                            |                                                                            |                                                                            |                                                                            |                                                                            |                                                                            |                          |                                                                                                    |                          |                                      |      |                                                   |       |                              |                          |                                   |                          |                          |                          |                          |                          |                          |                                     |                          |                                     |                          |                          |                |      |             |                                                                            |                                                                            |                                                                            |                                                                            |                                                                            |                                                                            |                                                                            |    |      |      |      |      |      |      |  |  |  |  |      |                 |    |      |      |      |  |  |  |  |  |  |  |      |                                                                                                                                                                                                                                                                                                                                       |  |  |  |           |     |     |           |     |     |    |            |  |  |    |
| <div style="display: flex; justify-content: space-between;"> <div> EMS:<br/> Temp:<br/> pH:<br/> Flood Signs: eroded banks </div> <div> Method: T3<br/> Method: P4<br/> Method: GE </div> <div> Req #:<br/> Cond.:<br/> Turb.: T <input type="checkbox"/> M <input type="checkbox"/> L <input type="checkbox"/> C <input type="checkbox"/> </div> <div> Method: S4<br/> Method: GE </div> </div>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                                                                            |                                                                            |                                                                            |                                                                            |                                                                            |                                                                            |                                                                            |                          |                                                                                                    |                          |                                      |      |                                                   |       |                              |                          |                                   |                          |                          |                          |                          |                          |                          |                                     |                          |                                     |                          |                          |                |      |             |                                                                            |                                                                            |                                                                            |                                                                            |                                                                            |                                                                            |                                                                            |    |      |      |      |      |      |      |  |  |  |  |      |                 |    |      |      |      |  |  |  |  |  |  |  |      |                                                                                                                                                                                                                                                                                                                                       |  |  |  |           |     |     |           |     |     |    |            |  |  |    |
| MORPHOLOGY                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                                                                            |                                                                            |                                                                            |                                                                            |                                                                            |                                                                            |                                                                            |                          |                                                                                                    |                          |                                      |      |                                                   |       |                              |                          |                                   |                          |                          |                          |                          |                          |                          |                                     |                          |                                     |                          |                          |                |      |             |                                                                            |                                                                            |                                                                            |                                                                            |                                                                            |                                                                            |                                                                            |    |      |      |      |      |      |      |  |  |  |  |      |                 |    |      |      |      |  |  |  |  |  |  |  |      |                                                                                                                                                                                                                                                                                                                                       |  |  |  |           |     |     |           |     |     |    |            |  |  |    |
| <div style="display: flex; justify-content: space-between;"> <div> Bed Material: Dominant: C Subdom: G<br/> D95: 30.0 D (cm): 15.00 Morph: CP<br/> Pattern: SI<br/> Islands: N<br/> Coupling: PC<br/> Confinement: FC<br/> FSZ: <input type="checkbox"/> </div> <div> DISTURBANCE INDICATORS<br/> <table border="1" style="width:100%; border-collapse: collapse; text-align: center;"> <thead> <tr> <th>O1</th> <th>B1</th> <th>B2</th> <th>B3</th> <th>D1</th> <th>D2</th> <th>D3</th> </tr> </thead> <tbody> <tr> <td><input type="checkbox"/></td> <td><input type="checkbox"/></td> <td><input checked="" type="checkbox"/></td> <td><input type="checkbox"/></td> <td><input checked="" type="checkbox"/></td> <td><input type="checkbox"/></td> <td><input type="checkbox"/></td> </tr> </tbody> </table> </div> </div>                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                                                                            |                                                                            |                                                                            |                                                                            |                                                                            |                                                                            |                                                                            |                          |                                                                                                    |                          |                                      |      |                                                   |       | O1                           | B1                       | B2                                | B3                       | D1                       | D2                       | D3                       | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |                |      |             |                                                                            |                                                                            |                                                                            |                                                                            |                                                                            |                                                                            |                                                                            |    |      |      |      |      |      |      |  |  |  |  |      |                 |    |      |      |      |  |  |  |  |  |  |  |      |                                                                                                                                                                                                                                                                                                                                       |  |  |  |           |     |     |           |     |     |    |            |  |  |    |
| O1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | B1                                                                         | B2                                                                         | B3                                                                         | D1                                                                         | D2                                                                         | D3                                                                         |                                                                            |                          |                                                                                                    |                          |                                      |      |                                                   |       |                              |                          |                                   |                          |                          |                          |                          |                          |                          |                                     |                          |                                     |                          |                          |                |      |             |                                                                            |                                                                            |                                                                            |                                                                            |                                                                            |                                                                            |                                                                            |    |      |      |      |      |      |      |  |  |  |  |      |                 |    |      |      |      |  |  |  |  |  |  |  |      |                                                                                                                                                                                                                                                                                                                                       |  |  |  |           |     |     |           |     |     |    |            |  |  |    |
| <input type="checkbox"/>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | <input type="checkbox"/>                                                   | <input checked="" type="checkbox"/>                                        | <input type="checkbox"/>                                                   | <input checked="" type="checkbox"/>                                        | <input type="checkbox"/>                                                   | <input type="checkbox"/>                                                   |                                                                            |                          |                                                                                                    |                          |                                      |      |                                                   |       |                              |                          |                                   |                          |                          |                          |                          |                          |                          |                                     |                          |                                     |                          |                          |                |      |             |                                                                            |                                                                            |                                                                            |                                                                            |                                                                            |                                                                            |                                                                            |    |      |      |      |      |      |      |  |  |  |  |      |                 |    |      |      |      |  |  |  |  |  |  |  |      |                                                                                                                                                                                                                                                                                                                                       |  |  |  |           |     |     |           |     |     |    |            |  |  |    |
| <div style="display: flex; justify-content: space-between;"> <div> C1 C2 C3 C4 C5 S1 S2 S3 S4 S5<br/> <table border="1" style="width:100%; border-collapse: collapse; text-align: center;"> <tbody> <tr> <td><input type="checkbox"/></td> <td><input type="checkbox"/></td> <td><input type="checkbox"/></td> <td><input type="checkbox"/></td> <td><input type="checkbox"/></td> <td><input type="checkbox"/></td> <td><input type="checkbox"/></td> <td><input type="checkbox"/></td> <td><input type="checkbox"/></td> <td><input type="checkbox"/></td> <td><input type="checkbox"/></td> </tr> </tbody> </table> </div> <div> Bars: N <input type="checkbox"/> SIDE <input checked="" type="checkbox"/> DIAG <input checked="" type="checkbox"/> MID <input type="checkbox"/> SPAN <input type="checkbox"/> BR <input type="checkbox"/> </div> </div>                                                                                                                                                                                                                                                                                                                                                                                                                        |                                                                            |                                                                            |                                                                            |                                                                            |                                                                            |                                                                            |                                                                            |                          |                                                                                                    |                          |                                      |      |                                                   |       | <input type="checkbox"/>     | <input type="checkbox"/> | <input type="checkbox"/>          | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/>            | <input type="checkbox"/> |                                     |                          |                          |                |      |             |                                                                            |                                                                            |                                                                            |                                                                            |                                                                            |                                                                            |                                                                            |    |      |      |      |      |      |      |  |  |  |  |      |                 |    |      |      |      |  |  |  |  |  |  |  |      |                                                                                                                                                                                                                                                                                                                                       |  |  |  |           |     |     |           |     |     |    |            |  |  |    |
| <input type="checkbox"/>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | <input type="checkbox"/>                                                   | <input type="checkbox"/>                                                   | <input type="checkbox"/>                                                   | <input type="checkbox"/>                                                   | <input type="checkbox"/>                                                   | <input type="checkbox"/>                                                   | <input type="checkbox"/>                                                   | <input type="checkbox"/> | <input type="checkbox"/>                                                                           | <input type="checkbox"/> |                                      |      |                                                   |       |                              |                          |                                   |                          |                          |                          |                          |                          |                          |                                     |                          |                                     |                          |                          |                |      |             |                                                                            |                                                                            |                                                                            |                                                                            |                                                                            |                                                                            |                                                                            |    |      |      |      |      |      |      |  |  |  |  |      |                 |    |      |      |      |  |  |  |  |  |  |  |      |                                                                                                                                                                                                                                                                                                                                       |  |  |  |           |     |     |           |     |     |    |            |  |  |    |
| HABITAT QUALITY                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                                                                            |                                                                            |                                                                            |                                                                            |                                                                            |                                                                            |                                                                            |                          |                                                                                                    |                          |                                      |      |                                                   |       |                              |                          |                                   |                          |                          |                          |                          |                          |                          |                                     |                          |                                     |                          |                          |                |      |             |                                                                            |                                                                            |                                                                            |                                                                            |                                                                            |                                                                            |                                                                            |    |      |      |      |      |      |      |  |  |  |  |      |                 |    |      |      |      |  |  |  |  |  |  |  |      |                                                                                                                                                                                                                                                                                                                                       |  |  |  |           |     |     |           |     |     |    |            |  |  |    |
| <div style="display: flex; justify-content: space-between;"> <div> Name<br/> Other </div> <div> Comments<br/> No R, S or O habitat. Seasonal stream with no instream cover when flowing. Dries out within few weeks; not suitable for seasonal use; substrate mixed and angular. </div> </div>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                                                                            |                                                                            |                                                                            |                                                                            |                                                                            |                                                                            |                                                                            |                          |                                                                                                    |                          |                                      |      |                                                   |       |                              |                          |                                   |                          |                          |                          |                          |                          |                          |                                     |                          |                                     |                          |                          |                |      |             |                                                                            |                                                                            |                                                                            |                                                                            |                                                                            |                                                                            |                                                                            |    |      |      |      |      |      |      |  |  |  |  |      |                 |    |      |      |      |  |  |  |  |  |  |  |      |                                                                                                                                                                                                                                                                                                                                       |  |  |  |           |     |     |           |     |     |    |            |  |  |    |
| PHOTOS                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                                                                            |                                                                            |                                                                            |                                                                            |                                                                            |                                                                            |                                                                            |                          |                                                                                                    |                          |                                      |      |                                                   |       |                              |                          |                                   |                          |                          |                          |                          |                          |                          |                                     |                          |                                     |                          |                          |                |      |             |                                                                            |                                                                            |                                                                            |                                                                            |                                                                            |                                                                            |                                                                            |    |      |      |      |      |      |      |  |  |  |  |      |                 |    |      |      |      |  |  |  |  |  |  |  |      |                                                                                                                                                                                                                                                                                                                                       |  |  |  |           |     |     |           |     |     |    |            |  |  |    |
| <table border="1" style="width:100%; border-collapse: collapse; text-align: center;"> <thead> <tr> <th colspan="2">Photo</th> <th>Foc Lg</th> <th>Dir</th> <th>Comments</th> </tr> </thead> <tbody> <tr> <td>R: DIG</td> <td>F: 954</td> <td>STD</td> <td>U</td> <td>tape for scale</td> </tr> <tr> <td>R: DIG</td> <td>F: 955</td> <td>STD</td> <td>D</td> <td>tape for scale</td> </tr> </tbody> </table>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                                                                            |                                                                            |                                                                            |                                                                            |                                                                            |                                                                            |                                                                            |                          |                                                                                                    |                          |                                      |      |                                                   |       | Photo                        |                          | Foc Lg                            | Dir                      | Comments                 | R: DIG                   | F: 954                   | STD                      | U                        | tape for scale                      | R: DIG                   | F: 955                              | STD                      | D                        | tape for scale |      |             |                                                                            |                                                                            |                                                                            |                                                                            |                                                                            |                                                                            |                                                                            |    |      |      |      |      |      |      |  |  |  |  |      |                 |    |      |      |      |  |  |  |  |  |  |  |      |                                                                                                                                                                                                                                                                                                                                       |  |  |  |           |     |     |           |     |     |    |            |  |  |    |
| Photo                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                                                                            | Foc Lg                                                                     | Dir                                                                        | Comments                                                                   |                                                                            |                                                                            |                                                                            |                          |                                                                                                    |                          |                                      |      |                                                   |       |                              |                          |                                   |                          |                          |                          |                          |                          |                          |                                     |                          |                                     |                          |                          |                |      |             |                                                                            |                                                                            |                                                                            |                                                                            |                                                                            |                                                                            |                                                                            |    |      |      |      |      |      |      |  |  |  |  |      |                 |    |      |      |      |  |  |  |  |  |  |  |      |                                                                                                                                                                                                                                                                                                                                       |  |  |  |           |     |     |           |     |     |    |            |  |  |    |
| R: DIG                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | F: 954                                                                     | STD                                                                        | U                                                                          | tape for scale                                                             |                                                                            |                                                                            |                                                                            |                          |                                                                                                    |                          |                                      |      |                                                   |       |                              |                          |                                   |                          |                          |                          |                          |                          |                          |                                     |                          |                                     |                          |                          |                |      |             |                                                                            |                                                                            |                                                                            |                                                                            |                                                                            |                                                                            |                                                                            |    |      |      |      |      |      |      |  |  |  |  |      |                 |    |      |      |      |  |  |  |  |  |  |  |      |                                                                                                                                                                                                                                                                                                                                       |  |  |  |           |     |     |           |     |     |    |            |  |  |    |
| R: DIG                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | F: 955                                                                     | STD                                                                        | D                                                                          | tape for scale                                                             |                                                                            |                                                                            |                                                                            |                          |                                                                                                    |                          |                                      |      |                                                   |       |                              |                          |                                   |                          |                          |                          |                          |                          |                          |                                     |                          |                                     |                          |                          |                |      |             |                                                                            |                                                                            |                                                                            |                                                                            |                                                                            |                                                                            |                                                                            |    |      |      |      |      |      |      |  |  |  |  |      |                 |    |      |      |      |  |  |  |  |  |  |  |      |                                                                                                                                                                                                                                                                                                                                       |  |  |  |           |     |     |           |     |     |    |            |  |  |    |



# FDIS Site Card

## 2006 RFFHI Babine L. Tributaries - Re-sampling

Watershed Code: 480-466800-12000-47139-0000-0000-000-000-000-000

|         |           |       |      |
|---------|-----------|-------|------|
| Reach # | ILP Map # | ILP # | Site |
| 1.1     | 093M.028  | 10274 | 113  |

| W I L D L I F E |                                        |
|-----------------|----------------------------------------|
| Group           | Observations                           |
| MAM             | wallowing hole at UTM 9.656672.6121305 |
| C O M M E N T S |                                        |
| Section         | Comments                               |
| SITE CARD       | S6                                     |



FDIS Reach Card

2006 RFFHI Babine L. Tributaries - Re-sampling

Watershed Code: 480-466800-12000-47139-0000-0000-000-000-000-000-000

Reach # 1.1      ILP Map # 093M.028      ILP # 10274

| PROJECT                                                                        |  |                      |              |                 |                                     |                                                                                                                                                                                                |  |                                   |                          |                          |                          |                          |                          |                          |
|--------------------------------------------------------------------------------|--|----------------------|--------------|-----------------|-------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|-----------------------------------|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|
| Project Name: Babine Lake Face Unit Re-sampling - 2006                         |  |                      |              |                 | Project Code: 06-BABL-00015953-2006 |                                                                                                                                                                                                |  |                                   |                          |                          |                          |                          |                          |                          |
| Stream Name (gaz.): BABINE RIVER                                               |  |                      |              |                 |                                     |                                                                                                                                                                                                |  |                                   |                          |                          |                          |                          |                          |                          |
| Project Watershed Code: 480-000000-00000-00000-0000-000-000-000-000-000-000    |  |                      |              |                 |                                     |                                                                                                                                                                                                |  |                                   |                          |                          |                          |                          |                          |                          |
| WATERSHED                                                                      |  |                      |              |                 |                                     |                                                                                                                                                                                                |  |                                   |                          |                          |                          |                          |                          |                          |
| Reach Watershed Code: 480-466800-12000-47139-0000-0000-000-000-000-000-000-000 |  |                      |              |                 |                                     |                                                                                                                                                                                                |  |                                   |                          |                          |                          |                          |                          |                          |
| ILP Map #: 093M.028                                                            |  | ILP #: 10274         |              | Reach #: 1.1    |                                     | NID Map #: 093M.028                                                                                                                                                                            |  | NID #: 20054                      |                          |                          |                          |                          |                          |                          |
| Air Photos                                                                     |  |                      | Names        |                 |                                     | UTM(Zone/East/North/Method)                                                                                                                                                                    |  |                                   |                          |                          |                          |                          |                          |                          |
| LINE:                                                                          |  | Gaz.:                |              |                 |                                     | 9.657047.6121722                                                                                                                                                                               |  | GIS                               |                          |                          |                          |                          |                          |                          |
| #:                                                                             |  | Local: Unnamed Creek |              |                 |                                     | Sample Type: B                                                                                                                                                                                 |  | Wetland: <input type="checkbox"/> |                          |                          |                          |                          |                          |                          |
| SURVEY INFO                                                                    |  |                      |              |                 |                                     |                                                                                                                                                                                                |  |                                   |                          |                          |                          |                          |                          |                          |
| Date: 1999/03/15                                                               |  |                      | Agency: C016 |                 |                                     | Crew: MJ/JL                                                                                                                                                                                    |  |                                   |                          |                          |                          |                          |                          |                          |
| ATTRIBUTES                                                                     |  |                      |              |                 |                                     |                                                                                                                                                                                                |  |                                   |                          |                          |                          |                          |                          |                          |
| Length (km): 1.27                                                              |  | Gradient: 7.17       |              | Setting: VW     |                                     | DISTURBANCE                                                                                                                                                                                    |  | O1                                | B1                       | B2                       | B3                       | D1                       | D2                       | D3                       |
| DS Elev.: 794                                                                  |  | Order: 3             |              | Open water: A   |                                     | INDICATORS                                                                                                                                                                                     |  | <input type="checkbox"/>          | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| US Elev: 885                                                                   |  | Magnitude: 6         |              | Confinement: FC |                                     | C1 C2 C3 C4 C5                                                                                                                                                                                 |  | S1                                | S2                       | S3                       | S4                       | S5                       |                          |                          |
|                                                                                |  | BGC Zone: SBS        |              | Coupling: PC    |                                     | <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>                                                                   |  | <input type="checkbox"/>          | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| Valley Flat: N                                                                 |  | C/D:                 |              |                 |                                     | Islands: N                                                                                                                                                                                     |  |                                   |                          |                          |                          |                          |                          |                          |
| Active Floodplain Visible: <input type="checkbox"/>                            |  | Est. Width:          |              |                 |                                     | Bars: <input checked="" type="checkbox"/> N <input type="checkbox"/> SIDE <input type="checkbox"/> DIAG <input type="checkbox"/> MID <input type="checkbox"/> SPAN <input type="checkbox"/> BR |  |                                   |                          |                          |                          |                          |                          |                          |
| Channel Pattern: SI                                                            |  |                      |              |                 |                                     | Mass Movement: M                                                                                                                                                                               |  | Exposed/Eroded: NV                |                          |                          |                          |                          |                          |                          |
|                                                                                |  |                      |              |                 |                                     | Riparian Veg.: C                                                                                                                                                                               |  | Landuse: NO                       |                          |                          |                          |                          |                          |                          |

| MAPS     |          |      |
|----------|----------|------|
| Map Type | Map #    | Year |
| TRIM     | 093M.028 | 2006 |

# FDIS Site Card

## 2006 RFFHI Babine L. Tributaries - Re-sampling

Watershed Code: 480-466800-12000-47139-0000-0000-000-000-000-000-000

Reach # 1.0 ILP Map # 093M.028 ILP # 10274 Site 114

| PROJECT                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                     |                                     |                                     |                          |                                                                                                             |                          |                          |                                                                                                                                                                                                                        |          |                                                                                                                                                                                                                                                                      |                  |                                                                                        |        |       |       |         |       |       |       |       |       |       |       |             |                                     |                                     |                                     |                          |                                     |                          |                          |               |  |  |  |  |      |                   |   |      |      |      |      |      |      |  |  |  |  |      |                 |    |      |      |      |  |  |  |  |  |  |  |      |                                                                                                                                                                                                                                                                                                                           |  |  |  |           |     |     |           |      |      |    |            |     |     |    |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------|-------------------------------------|-------------------------------------|--------------------------|-------------------------------------------------------------------------------------------------------------|--------------------------|--------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------|----------------------------------------------------------------------------------------|--------|-------|-------|---------|-------|-------|-------|-------|-------|-------|-------|-------------|-------------------------------------|-------------------------------------|-------------------------------------|--------------------------|-------------------------------------|--------------------------|--------------------------|---------------|--|--|--|--|------|-------------------|---|------|------|------|------|------|------|--|--|--|--|------|-----------------|----|------|------|------|--|--|--|--|--|--|--|------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|--|--|-----------|-----|-----|-----------|------|------|----|------------|-----|-----|----|
| Project Name: Babine Lake Face Unit Re-sampling - 2006                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                                     |                                     |                                     |                          |                                                                                                             |                          |                          |                                                                                                                                                                                                                        |          | Project Code: 06-BABL-00015953-2006                                                                                                                                                                                                                                  |                  |                                                                                        |        |       |       |         |       |       |       |       |       |       |       |             |                                     |                                     |                                     |                          |                                     |                          |                          |               |  |  |  |  |      |                   |   |      |      |      |      |      |      |  |  |  |  |      |                 |    |      |      |      |  |  |  |  |  |  |  |      |                                                                                                                                                                                                                                                                                                                           |  |  |  |           |     |     |           |      |      |    |            |     |     |    |
| Stream Name (gaz.): BABINE RIVER                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                                     |                                     |                                     |                          |                                                                                                             |                          |                          |                                                                                                                                                                                                                        |          |                                                                                                                                                                                                                                                                      |                  |                                                                                        |        |       |       |         |       |       |       |       |       |       |       |             |                                     |                                     |                                     |                          |                                     |                          |                          |               |  |  |  |  |      |                   |   |      |      |      |      |      |      |  |  |  |  |      |                 |    |      |      |      |  |  |  |  |  |  |  |      |                                                                                                                                                                                                                                                                                                                           |  |  |  |           |     |     |           |      |      |    |            |     |     |    |
| Project Watershed Code: 480-000000-00000-00000-0000-000-000-000-000-000-000                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                                     |                                     |                                     |                          |                                                                                                             |                          |                          |                                                                                                                                                                                                                        |          |                                                                                                                                                                                                                                                                      |                  |                                                                                        |        |       |       |         |       |       |       |       |       |       |       |             |                                     |                                     |                                     |                          |                                     |                          |                          |               |  |  |  |  |      |                   |   |      |      |      |      |      |      |  |  |  |  |      |                 |    |      |      |      |  |  |  |  |  |  |  |      |                                                                                                                                                                                                                                                                                                                           |  |  |  |           |     |     |           |      |      |    |            |     |     |    |
| WATERSHED                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                                     |                                     |                                     |                          |                                                                                                             |                          |                          |                                                                                                                                                                                                                        |          |                                                                                                                                                                                                                                                                      |                  |                                                                                        |        |       |       |         |       |       |       |       |       |       |       |             |                                     |                                     |                                     |                          |                                     |                          |                          |               |  |  |  |  |      |                   |   |      |      |      |      |      |      |  |  |  |  |      |                 |    |      |      |      |  |  |  |  |  |  |  |      |                                                                                                                                                                                                                                                                                                                           |  |  |  |           |     |     |           |      |      |    |            |     |     |    |
| Gazetted Name:                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                                     |                                     |                                     |                          |                                                                                                             |                          |                          |                                                                                                                                                                                                                        |          | Local Name: Unnamed Creek                                                                                                                                                                                                                                            |                  |                                                                                        |        |       |       |         |       |       |       |       |       |       |       |             |                                     |                                     |                                     |                          |                                     |                          |                          |               |  |  |  |  |      |                   |   |      |      |      |      |      |      |  |  |  |  |      |                 |    |      |      |      |  |  |  |  |  |  |  |      |                                                                                                                                                                                                                                                                                                                           |  |  |  |           |     |     |           |      |      |    |            |     |     |    |
| Watershed Code: 480-466800-12000-47139-0000-0000-000-000-000-000-000-000                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                                     |                                     |                                     |                          |                                                                                                             |                          |                          |                                                                                                                                                                                                                        |          |                                                                                                                                                                                                                                                                      |                  |                                                                                        |        |       |       |         |       |       |       |       |       |       |       |             |                                     |                                     |                                     |                          |                                     |                          |                          |               |  |  |  |  |      |                   |   |      |      |      |      |      |      |  |  |  |  |      |                 |    |      |      |      |  |  |  |  |  |  |  |      |                                                                                                                                                                                                                                                                                                                           |  |  |  |           |     |     |           |      |      |    |            |     |     |    |
| ILP Map#: 093M.028                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                                     |                                     | ILP #: 10274                        |                          | NID Map #: 093M.028                                                                                         |                          |                          | NID #: 15                                                                                                                                                                                                              |          | Reach #: 1.0                                                                                                                                                                                                                                                         |                  | Site #: 114                                                                            |        |       |       |         |       |       |       |       |       |       |       |             |                                     |                                     |                                     |                          |                                     |                          |                          |               |  |  |  |  |      |                   |   |      |      |      |      |      |      |  |  |  |  |      |                 |    |      |      |      |  |  |  |  |  |  |  |      |                                                                                                                                                                                                                                                                                                                           |  |  |  |           |     |     |           |      |      |    |            |     |     |    |
| Field UTM (Z.E.N): 9.655885.6122350                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                                     |                                     |                                     |                          | Method: GP3                                                                                                 |                          |                          | Site Lg: 100                                                                                                                                                                                                           |          | Method: NS                                                                                                                                                                                                                                                           |                  | Access: FT                                                                             |        |       |       |         |       |       |       |       |       |       |       |             |                                     |                                     |                                     |                          |                                     |                          |                          |               |  |  |  |  |      |                   |   |      |      |      |      |      |      |  |  |  |  |      |                 |    |      |      |      |  |  |  |  |  |  |  |      |                                                                                                                                                                                                                                                                                                                           |  |  |  |           |     |     |           |      |      |    |            |     |     |    |
| GIS UTM (Z.E.N): 9.655889.6122348                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                                     |                                     |                                     |                          |                                                                                                             |                          |                          | Ref. Name:                                                                                                                                                                                                             |          |                                                                                                                                                                                                                                                                      |                  |                                                                                        |        |       |       |         |       |       |       |       |       |       |       |             |                                     |                                     |                                     |                          |                                     |                          |                          |               |  |  |  |  |      |                   |   |      |      |      |      |      |      |  |  |  |  |      |                 |    |      |      |      |  |  |  |  |  |  |  |      |                                                                                                                                                                                                                                                                                                                           |  |  |  |           |     |     |           |      |      |    |            |     |     |    |
| Date: 2006/08/01                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                                     |                                     | Time: 11:50                         |                          | Agency: C016                                                                                                |                          |                          | Crew: MJ/JL                                                                                                                                                                                                            |          | Fish Crd?: <input checked="" type="checkbox"/>                                                                                                                                                                                                                       |                  | Incomplete: <input type="checkbox"/>                                                   |        |       |       |         |       |       |       |       |       |       |       |             |                                     |                                     |                                     |                          |                                     |                          |                          |               |  |  |  |  |      |                   |   |      |      |      |      |      |      |  |  |  |  |      |                 |    |      |      |      |  |  |  |  |  |  |  |      |                                                                                                                                                                                                                                                                                                                           |  |  |  |           |     |     |           |      |      |    |            |     |     |    |
| CHANNEL                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                     |                                     |                                     |                          |                                                                                                             |                          |                          |                                                                                                                                                                                                                        |          |                                                                                                                                                                                                                                                                      |                  |                                                                                        |        |       |       |         |       |       |       |       |       |       |       |             |                                     |                                     |                                     |                          |                                     |                          |                          |               |  |  |  |  |      |                   |   |      |      |      |      |      |      |  |  |  |  |      |                 |    |      |      |      |  |  |  |  |  |  |  |      |                                                                                                                                                                                                                                                                                                                           |  |  |  |           |     |     |           |      |      |    |            |     |     |    |
| <table border="1" style="width:100%; border-collapse: collapse;"> <thead> <tr> <th></th> <th>Mtd</th> <th>width</th> <th>width</th> <th>width</th> <th>width</th> <th>width</th> <th>width</th> <th>width</th> <th>width</th> <th>width</th> <th>width</th> <th>Avg</th> </tr> </thead> <tbody> <tr> <td>Channel Width (m):</td> <td>T</td> <td>2.10</td> <td>2.30</td> <td>1.80</td> <td>2.50</td> <td>2.00</td> <td>2.70</td> <td></td> <td></td> <td></td> <td></td> <td>2.23</td> </tr> <tr> <td>Wetted Width (m):</td> <td>T</td> <td>0.60</td> <td>0.50</td> <td>0.40</td> <td>0.50</td> <td>0.70</td> <td>0.30</td> <td></td> <td></td> <td></td> <td></td> <td>0.50</td> </tr> <tr> <td>Pool Depth (m):</td> <td>MS</td> <td>0.54</td> <td>0.15</td> <td>0.29</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>0.33</td> </tr> </tbody> </table> |                                     |                                     |                                     |                          |                                                                                                             |                          |                          |                                                                                                                                                                                                                        |          |                                                                                                                                                                                                                                                                      |                  |                                                                                        | Mtd    | width | width | width   | width | width | width | width | width | width | width | Avg         | Channel Width (m):                  | T                                   | 2.10                                | 2.30                     | 1.80                                | 2.50                     | 2.00                     | 2.70          |  |  |  |  | 2.23 | Wetted Width (m): | T | 0.60 | 0.50 | 0.40 | 0.50 | 0.70 | 0.30 |  |  |  |  | 0.50 | Pool Depth (m): | MS | 0.54 | 0.15 | 0.29 |  |  |  |  |  |  |  | 0.33 | <table border="1" style="width:100%; border-collapse: collapse;"> <thead> <tr> <th></th> <th>Gadient %</th> <th>Mtd</th> <th>Avg</th> </tr> </thead> <tbody> <tr> <td>Method I:</td> <td>10.0</td> <td>12.0</td> <td>AL</td> </tr> <tr> <td>Method II:</td> <td>7.0</td> <td>7.0</td> <td>AL</td> </tr> </tbody> </table> |  |  |  | Gadient % | Mtd | Avg | Method I: | 10.0 | 12.0 | AL | Method II: | 7.0 | 7.0 | AL |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | Mtd                                 | width                               | width                               | width                    | width                                                                                                       | width                    | width                    | width                                                                                                                                                                                                                  | width    | width                                                                                                                                                                                                                                                                | width            | Avg                                                                                    |        |       |       |         |       |       |       |       |       |       |       |             |                                     |                                     |                                     |                          |                                     |                          |                          |               |  |  |  |  |      |                   |   |      |      |      |      |      |      |  |  |  |  |      |                 |    |      |      |      |  |  |  |  |  |  |  |      |                                                                                                                                                                                                                                                                                                                           |  |  |  |           |     |     |           |      |      |    |            |     |     |    |
| Channel Width (m):                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | T                                   | 2.10                                | 2.30                                | 1.80                     | 2.50                                                                                                        | 2.00                     | 2.70                     |                                                                                                                                                                                                                        |          |                                                                                                                                                                                                                                                                      |                  | 2.23                                                                                   |        |       |       |         |       |       |       |       |       |       |       |             |                                     |                                     |                                     |                          |                                     |                          |                          |               |  |  |  |  |      |                   |   |      |      |      |      |      |      |  |  |  |  |      |                 |    |      |      |      |  |  |  |  |  |  |  |      |                                                                                                                                                                                                                                                                                                                           |  |  |  |           |     |     |           |      |      |    |            |     |     |    |
| Wetted Width (m):                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | T                                   | 0.60                                | 0.50                                | 0.40                     | 0.50                                                                                                        | 0.70                     | 0.30                     |                                                                                                                                                                                                                        |          |                                                                                                                                                                                                                                                                      |                  | 0.50                                                                                   |        |       |       |         |       |       |       |       |       |       |       |             |                                     |                                     |                                     |                          |                                     |                          |                          |               |  |  |  |  |      |                   |   |      |      |      |      |      |      |  |  |  |  |      |                 |    |      |      |      |  |  |  |  |  |  |  |      |                                                                                                                                                                                                                                                                                                                           |  |  |  |           |     |     |           |      |      |    |            |     |     |    |
| Pool Depth (m):                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | MS                                  | 0.54                                | 0.15                                | 0.29                     |                                                                                                             |                          |                          |                                                                                                                                                                                                                        |          |                                                                                                                                                                                                                                                                      |                  | 0.33                                                                                   |        |       |       |         |       |       |       |       |       |       |       |             |                                     |                                     |                                     |                          |                                     |                          |                          |               |  |  |  |  |      |                   |   |      |      |      |      |      |      |  |  |  |  |      |                 |    |      |      |      |  |  |  |  |  |  |  |      |                                                                                                                                                                                                                                                                                                                           |  |  |  |           |     |     |           |      |      |    |            |     |     |    |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | Gadient %                           | Mtd                                 | Avg                                 |                          |                                                                                                             |                          |                          |                                                                                                                                                                                                                        |          |                                                                                                                                                                                                                                                                      |                  |                                                                                        |        |       |       |         |       |       |       |       |       |       |       |             |                                     |                                     |                                     |                          |                                     |                          |                          |               |  |  |  |  |      |                   |   |      |      |      |      |      |      |  |  |  |  |      |                 |    |      |      |      |  |  |  |  |  |  |  |      |                                                                                                                                                                                                                                                                                                                           |  |  |  |           |     |     |           |      |      |    |            |     |     |    |
| Method I:                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | 10.0                                | 12.0                                | AL                                  |                          |                                                                                                             |                          |                          |                                                                                                                                                                                                                        |          |                                                                                                                                                                                                                                                                      |                  |                                                                                        |        |       |       |         |       |       |       |       |       |       |       |             |                                     |                                     |                                     |                          |                                     |                          |                          |               |  |  |  |  |      |                   |   |      |      |      |      |      |      |  |  |  |  |      |                 |    |      |      |      |  |  |  |  |  |  |  |      |                                                                                                                                                                                                                                                                                                                           |  |  |  |           |     |     |           |      |      |    |            |     |     |    |
| Method II:                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | 7.0                                 | 7.0                                 | AL                                  |                          |                                                                                                             |                          |                          |                                                                                                                                                                                                                        |          |                                                                                                                                                                                                                                                                      |                  |                                                                                        |        |       |       |         |       |       |       |       |       |       |       |             |                                     |                                     |                                     |                          |                                     |                          |                          |               |  |  |  |  |      |                   |   |      |      |      |      |      |      |  |  |  |  |      |                 |    |      |      |      |  |  |  |  |  |  |  |      |                                                                                                                                                                                                                                                                                                                           |  |  |  |           |     |     |           |      |      |    |            |     |     |    |
| Wb Depth:                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                                     | .6                                  | .4                                  | .6                       | Avg: 0.53                                                                                                   |                          |                          | Method: T                                                                                                                                                                                                              |          | Stage: L <input checked="" type="checkbox"/> M <input type="checkbox"/> H <input type="checkbox"/>                                                                                                                                                                   |                  | No Vis.Ch.: <input type="checkbox"/> Intermittent: <input checked="" type="checkbox"/> |        |       |       |         |       |       |       |       |       |       |       |             |                                     |                                     |                                     |                          |                                     |                          |                          |               |  |  |  |  |      |                   |   |      |      |      |      |      |      |  |  |  |  |      |                 |    |      |      |      |  |  |  |  |  |  |  |      |                                                                                                                                                                                                                                                                                                                           |  |  |  |           |     |     |           |      |      |    |            |     |     |    |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                                     |                                     |                                     |                          |                                                                                                             |                          |                          |                                                                                                                                                                                                                        |          |                                                                                                                                                                                                                                                                      |                  | Dw: <input type="checkbox"/> Tribs.: <input type="checkbox"/>                          |        |       |       |         |       |       |       |       |       |       |       |             |                                     |                                     |                                     |                          |                                     |                          |                          |               |  |  |  |  |      |                   |   |      |      |      |      |      |      |  |  |  |  |      |                 |    |      |      |      |  |  |  |  |  |  |  |      |                                                                                                                                                                                                                                                                                                                           |  |  |  |           |     |     |           |      |      |    |            |     |     |    |
| COVER Total: T                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                                     |                                     |                                     |                          |                                                                                                             |                          |                          |                                                                                                                                                                                                                        |          |                                                                                                                                                                                                                                                                      |                  |                                                                                        |        |       |       |         |       |       |       |       |       |       |       |             |                                     |                                     |                                     |                          |                                     |                          |                          |               |  |  |  |  |      |                   |   |      |      |      |      |      |      |  |  |  |  |      |                 |    |      |      |      |  |  |  |  |  |  |  |      |                                                                                                                                                                                                                                                                                                                           |  |  |  |           |     |     |           |      |      |    |            |     |     |    |
| <table border="1" style="width:100%; border-collapse: collapse;"> <thead> <tr> <th>Type:</th> <th>SWD</th> <th>LWD</th> <th>B</th> <th>U</th> <th>DP</th> <th>OV</th> <th>IV</th> </tr> </thead> <tbody> <tr> <td>Amount:</td> <td>T</td> <td>T</td> <td>S</td> <td>N</td> <td>D</td> <td>N</td> <td>N</td> </tr> <tr> <td>Loc: P/S/O:</td> <td><input checked="" type="checkbox"/></td> <td><input checked="" type="checkbox"/></td> <td><input checked="" type="checkbox"/></td> <td><input type="checkbox"/></td> <td><input checked="" type="checkbox"/></td> <td><input type="checkbox"/></td> <td><input type="checkbox"/></td> </tr> </tbody> </table>                                                                                                                                                                                                                          |                                     |                                     |                                     |                          |                                                                                                             |                          |                          | Type:                                                                                                                                                                                                                  | SWD      | LWD                                                                                                                                                                                                                                                                  | B                | U                                                                                      | DP     | OV    | IV    | Amount: | T     | T     | S     | N     | D     | N     | N     | Loc: P/S/O: | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | CROWN CLOSURE |  |  |  |  |      |                   |   |      |      |      |      |      |      |  |  |  |  |      |                 |    |      |      |      |  |  |  |  |  |  |  |      |                                                                                                                                                                                                                                                                                                                           |  |  |  |           |     |     |           |      |      |    |            |     |     |    |
| Type:                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | SWD                                 | LWD                                 | B                                   | U                        | DP                                                                                                          | OV                       | IV                       |                                                                                                                                                                                                                        |          |                                                                                                                                                                                                                                                                      |                  |                                                                                        |        |       |       |         |       |       |       |       |       |       |       |             |                                     |                                     |                                     |                          |                                     |                          |                          |               |  |  |  |  |      |                   |   |      |      |      |      |      |      |  |  |  |  |      |                 |    |      |      |      |  |  |  |  |  |  |  |      |                                                                                                                                                                                                                                                                                                                           |  |  |  |           |     |     |           |      |      |    |            |     |     |    |
| Amount:                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | T                                   | T                                   | S                                   | N                        | D                                                                                                           | N                        | N                        |                                                                                                                                                                                                                        |          |                                                                                                                                                                                                                                                                      |                  |                                                                                        |        |       |       |         |       |       |       |       |       |       |       |             |                                     |                                     |                                     |                          |                                     |                          |                          |               |  |  |  |  |      |                   |   |      |      |      |      |      |      |  |  |  |  |      |                 |    |      |      |      |  |  |  |  |  |  |  |      |                                                                                                                                                                                                                                                                                                                           |  |  |  |           |     |     |           |      |      |    |            |     |     |    |
| Loc: P/S/O:                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/>                                                                         | <input type="checkbox"/> | <input type="checkbox"/> |                                                                                                                                                                                                                        |          |                                                                                                                                                                                                                                                                      |                  |                                                                                        |        |       |       |         |       |       |       |       |       |       |       |             |                                     |                                     |                                     |                          |                                     |                          |                          |               |  |  |  |  |      |                   |   |      |      |      |      |      |      |  |  |  |  |      |                 |    |      |      |      |  |  |  |  |  |  |  |      |                                                                                                                                                                                                                                                                                                                           |  |  |  |           |     |     |           |      |      |    |            |     |     |    |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                                     |                                     |                                     |                          |                                                                                                             |                          |                          | 1 1-20%                                                                                                                                                                                                                |          |                                                                                                                                                                                                                                                                      |                  |                                                                                        |        |       |       |         |       |       |       |       |       |       |       |             |                                     |                                     |                                     |                          |                                     |                          |                          |               |  |  |  |  |      |                   |   |      |      |      |      |      |      |  |  |  |  |      |                 |    |      |      |      |  |  |  |  |  |  |  |      |                                                                                                                                                                                                                                                                                                                           |  |  |  |           |     |     |           |      |      |    |            |     |     |    |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                                     |                                     |                                     |                          |                                                                                                             |                          |                          | INSTREAM VEG: N <input checked="" type="checkbox"/> A <input type="checkbox"/> M <input type="checkbox"/> V <input type="checkbox"/>                                                                                   |          |                                                                                                                                                                                                                                                                      |                  |                                                                                        |        |       |       |         |       |       |       |       |       |       |       |             |                                     |                                     |                                     |                          |                                     |                          |                          |               |  |  |  |  |      |                   |   |      |      |      |      |      |      |  |  |  |  |      |                 |    |      |      |      |  |  |  |  |  |  |  |      |                                                                                                                                                                                                                                                                                                                           |  |  |  |           |     |     |           |      |      |    |            |     |     |    |
| LWD: F                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                                     |                                     |                                     |                          |                                                                                                             |                          |                          | DIST: C                                                                                                                                                                                                                |          |                                                                                                                                                                                                                                                                      |                  |                                                                                        |        |       |       |         |       |       |       |       |       |       |       |             |                                     |                                     |                                     |                          |                                     |                          |                          |               |  |  |  |  |      |                   |   |      |      |      |      |      |      |  |  |  |  |      |                 |    |      |      |      |  |  |  |  |  |  |  |      |                                                                                                                                                                                                                                                                                                                           |  |  |  |           |     |     |           |      |      |    |            |     |     |    |
| LB SHP: V                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                                     |                                     |                                     |                          |                                                                                                             |                          |                          | RB SHP: V                                                                                                                                                                                                              |          |                                                                                                                                                                                                                                                                      |                  |                                                                                        |        |       |       |         |       |       |       |       |       |       |       |             |                                     |                                     |                                     |                          |                                     |                          |                          |               |  |  |  |  |      |                   |   |      |      |      |      |      |      |  |  |  |  |      |                 |    |      |      |      |  |  |  |  |  |  |  |      |                                                                                                                                                                                                                                                                                                                           |  |  |  |           |     |     |           |      |      |    |            |     |     |    |
| Texture: F <input checked="" type="checkbox"/> G <input checked="" type="checkbox"/> C <input checked="" type="checkbox"/> B <input checked="" type="checkbox"/> R <input type="checkbox"/> A <input type="checkbox"/>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                                     |                                     |                                     |                          |                                                                                                             |                          |                          | Texture: F <input checked="" type="checkbox"/> G <input checked="" type="checkbox"/> C <input checked="" type="checkbox"/> B <input checked="" type="checkbox"/> R <input type="checkbox"/> A <input type="checkbox"/> |          |                                                                                                                                                                                                                                                                      |                  |                                                                                        |        |       |       |         |       |       |       |       |       |       |       |             |                                     |                                     |                                     |                          |                                     |                          |                          |               |  |  |  |  |      |                   |   |      |      |      |      |      |      |  |  |  |  |      |                 |    |      |      |      |  |  |  |  |  |  |  |      |                                                                                                                                                                                                                                                                                                                           |  |  |  |           |     |     |           |      |      |    |            |     |     |    |
| RIP: C                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                                     |                                     |                                     |                          |                                                                                                             |                          |                          | RIP: C                                                                                                                                                                                                                 |          |                                                                                                                                                                                                                                                                      |                  |                                                                                        |        |       |       |         |       |       |       |       |       |       |       |             |                                     |                                     |                                     |                          |                                     |                          |                          |               |  |  |  |  |      |                   |   |      |      |      |      |      |      |  |  |  |  |      |                 |    |      |      |      |  |  |  |  |  |  |  |      |                                                                                                                                                                                                                                                                                                                           |  |  |  |           |     |     |           |      |      |    |            |     |     |    |
| STG: MF                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                     |                                     |                                     |                          |                                                                                                             |                          |                          | STG: MF                                                                                                                                                                                                                |          |                                                                                                                                                                                                                                                                      |                  |                                                                                        |        |       |       |         |       |       |       |       |       |       |       |             |                                     |                                     |                                     |                          |                                     |                          |                          |               |  |  |  |  |      |                   |   |      |      |      |      |      |      |  |  |  |  |      |                 |    |      |      |      |  |  |  |  |  |  |  |      |                                                                                                                                                                                                                                                                                                                           |  |  |  |           |     |     |           |      |      |    |            |     |     |    |
| WATER                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                                     |                                     |                                     |                          |                                                                                                             |                          |                          |                                                                                                                                                                                                                        |          |                                                                                                                                                                                                                                                                      |                  |                                                                                        |        |       |       |         |       |       |       |       |       |       |       |             |                                     |                                     |                                     |                          |                                     |                          |                          |               |  |  |  |  |      |                   |   |      |      |      |      |      |      |  |  |  |  |      |                 |    |      |      |      |  |  |  |  |  |  |  |      |                                                                                                                                                                                                                                                                                                                           |  |  |  |           |     |     |           |      |      |    |            |     |     |    |
| EMS:                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                                     |                                     |                                     |                          |                                                                                                             |                          |                          |                                                                                                                                                                                                                        |          | Req #:                                                                                                                                                                                                                                                               |                  |                                                                                        |        |       |       |         |       |       |       |       |       |       |       |             |                                     |                                     |                                     |                          |                                     |                          |                          |               |  |  |  |  |      |                   |   |      |      |      |      |      |      |  |  |  |  |      |                 |    |      |      |      |  |  |  |  |  |  |  |      |                                                                                                                                                                                                                                                                                                                           |  |  |  |           |     |     |           |      |      |    |            |     |     |    |
| Temp: 12                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                                     |                                     |                                     |                          | Method: T3                                                                                                  |                          |                          |                                                                                                                                                                                                                        |          | Cond.: 110                                                                                                                                                                                                                                                           |                  |                                                                                        |        |       |       |         |       |       |       |       |       |       |       |             |                                     |                                     |                                     |                          |                                     |                          |                          |               |  |  |  |  |      |                   |   |      |      |      |      |      |      |  |  |  |  |      |                 |    |      |      |      |  |  |  |  |  |  |  |      |                                                                                                                                                                                                                                                                                                                           |  |  |  |           |     |     |           |      |      |    |            |     |     |    |
| pH: 6.8                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                     |                                     |                                     |                          | Method: P4                                                                                                  |                          |                          |                                                                                                                                                                                                                        |          | Method: S4                                                                                                                                                                                                                                                           |                  |                                                                                        |        |       |       |         |       |       |       |       |       |       |       |             |                                     |                                     |                                     |                          |                                     |                          |                          |               |  |  |  |  |      |                   |   |      |      |      |      |      |      |  |  |  |  |      |                 |    |      |      |      |  |  |  |  |  |  |  |      |                                                                                                                                                                                                                                                                                                                           |  |  |  |           |     |     |           |      |      |    |            |     |     |    |
| Flood Signs: none                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                                     |                                     |                                     |                          | Method: GE                                                                                                  |                          |                          |                                                                                                                                                                                                                        |          | Turb.: T <input type="checkbox"/> M <input type="checkbox"/> L <input type="checkbox"/> C <input checked="" type="checkbox"/> Method: GE                                                                                                                             |                  |                                                                                        |        |       |       |         |       |       |       |       |       |       |       |             |                                     |                                     |                                     |                          |                                     |                          |                          |               |  |  |  |  |      |                   |   |      |      |      |      |      |      |  |  |  |  |      |                 |    |      |      |      |  |  |  |  |  |  |  |      |                                                                                                                                                                                                                                                                                                                           |  |  |  |           |     |     |           |      |      |    |            |     |     |    |
| MORPHOLOGY                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                                     |                                     |                                     |                          |                                                                                                             |                          |                          |                                                                                                                                                                                                                        |          |                                                                                                                                                                                                                                                                      |                  |                                                                                        |        |       |       |         |       |       |       |       |       |       |       |             |                                     |                                     |                                     |                          |                                     |                          |                          |               |  |  |  |  |      |                   |   |      |      |      |      |      |      |  |  |  |  |      |                 |    |      |      |      |  |  |  |  |  |  |  |      |                                                                                                                                                                                                                                                                                                                           |  |  |  |           |     |     |           |      |      |    |            |     |     |    |
| Bed Material:                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                                     |                                     |                                     |                          | Dominant: C                                                                                                 |                          |                          |                                                                                                                                                                                                                        |          | Subdom: B                                                                                                                                                                                                                                                            |                  |                                                                                        |        |       |       |         |       |       |       |       |       |       |       |             |                                     |                                     |                                     |                          |                                     |                          |                          |               |  |  |  |  |      |                   |   |      |      |      |      |      |      |  |  |  |  |      |                 |    |      |      |      |  |  |  |  |  |  |  |      |                                                                                                                                                                                                                                                                                                                           |  |  |  |           |     |     |           |      |      |    |            |     |     |    |
| D95: 60.0                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                                     |                                     |                                     |                          | D (cm): 30.00                                                                                               |                          |                          |                                                                                                                                                                                                                        |          | Morph: CP                                                                                                                                                                                                                                                            |                  |                                                                                        |        |       |       |         |       |       |       |       |       |       |       |             |                                     |                                     |                                     |                          |                                     |                          |                          |               |  |  |  |  |      |                   |   |      |      |      |      |      |      |  |  |  |  |      |                 |    |      |      |      |  |  |  |  |  |  |  |      |                                                                                                                                                                                                                                                                                                                           |  |  |  |           |     |     |           |      |      |    |            |     |     |    |
| Pattern: SI                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                                     |                                     |                                     |                          | DISTURBANCE INDICATORS                                                                                      |                          |                          |                                                                                                                                                                                                                        |          | O1 B1 B2 B3 D1 D2 D3                                                                                                                                                                                                                                                 |                  |                                                                                        |        |       |       |         |       |       |       |       |       |       |       |             |                                     |                                     |                                     |                          |                                     |                          |                          |               |  |  |  |  |      |                   |   |      |      |      |      |      |      |  |  |  |  |      |                 |    |      |      |      |  |  |  |  |  |  |  |      |                                                                                                                                                                                                                                                                                                                           |  |  |  |           |     |     |           |      |      |    |            |     |     |    |
| Islands: N                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                                     |                                     |                                     |                          |                                                                                                             |                          |                          |                                                                                                                                                                                                                        |          | <input type="checkbox"/> <input type="checkbox"/> <input checked="" type="checkbox"/> <input type="checkbox"/> <input checked="" type="checkbox"/> <input checked="" type="checkbox"/> <input type="checkbox"/>                                                      |                  |                                                                                        |        |       |       |         |       |       |       |       |       |       |       |             |                                     |                                     |                                     |                          |                                     |                          |                          |               |  |  |  |  |      |                   |   |      |      |      |      |      |      |  |  |  |  |      |                 |    |      |      |      |  |  |  |  |  |  |  |      |                                                                                                                                                                                                                                                                                                                           |  |  |  |           |     |     |           |      |      |    |            |     |     |    |
| Coupling: CO                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                                     |                                     |                                     |                          |                                                                                                             |                          |                          |                                                                                                                                                                                                                        |          | C1 C2 C3 C4 C5 S1 S2 S3 S4 S5                                                                                                                                                                                                                                        |                  |                                                                                        |        |       |       |         |       |       |       |       |       |       |       |             |                                     |                                     |                                     |                          |                                     |                          |                          |               |  |  |  |  |      |                   |   |      |      |      |      |      |      |  |  |  |  |      |                 |    |      |      |      |  |  |  |  |  |  |  |      |                                                                                                                                                                                                                                                                                                                           |  |  |  |           |     |     |           |      |      |    |            |     |     |    |
| Confinement: CO                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                                     |                                     |                                     |                          |                                                                                                             |                          |                          |                                                                                                                                                                                                                        |          | <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input checked="" type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> |                  |                                                                                        |        |       |       |         |       |       |       |       |       |       |       |             |                                     |                                     |                                     |                          |                                     |                          |                          |               |  |  |  |  |      |                   |   |      |      |      |      |      |      |  |  |  |  |      |                 |    |      |      |      |  |  |  |  |  |  |  |      |                                                                                                                                                                                                                                                                                                                           |  |  |  |           |     |     |           |      |      |    |            |     |     |    |
| FSZ: <input type="checkbox"/>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                                     |                                     |                                     |                          | Bars:                                                                                                       |                          |                          |                                                                                                                                                                                                                        |          | N <input type="checkbox"/> SIDE <input type="checkbox"/> DIAG <input checked="" type="checkbox"/> MID <input checked="" type="checkbox"/> SPAN <input type="checkbox"/> BR <input type="checkbox"/>                                                                  |                  |                                                                                        |        |       |       |         |       |       |       |       |       |       |       |             |                                     |                                     |                                     |                          |                                     |                          |                          |               |  |  |  |  |      |                   |   |      |      |      |      |      |      |  |  |  |  |      |                 |    |      |      |      |  |  |  |  |  |  |  |      |                                                                                                                                                                                                                                                                                                                           |  |  |  |           |     |     |           |      |      |    |            |     |     |    |
| FEATURES                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                                     |                                     |                                     |                          |                                                                                                             |                          |                          |                                                                                                                                                                                                                        |          |                                                                                                                                                                                                                                                                      |                  |                                                                                        |        |       |       |         |       |       |       |       |       |       |       |             |                                     |                                     |                                     |                          |                                     |                          |                          |               |  |  |  |  |      |                   |   |      |      |      |      |      |      |  |  |  |  |      |                 |    |      |      |      |  |  |  |  |  |  |  |      |                                                                                                                                                                                                                                                                                                                           |  |  |  |           |     |     |           |      |      |    |            |     |     |    |
| NID Map                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | NID                                 | Type                                | Hgt                                 | Method                   | Lg                                                                                                          | Method                   | Photo                    |                                                                                                                                                                                                                        | AirPhoto |                                                                                                                                                                                                                                                                      | UTM (Z/E/N)      |                                                                                        | Method |       |       |         |       |       |       |       |       |       |       |             |                                     |                                     |                                     |                          |                                     |                          |                          |               |  |  |  |  |      |                   |   |      |      |      |      |      |      |  |  |  |  |      |                 |    |      |      |      |  |  |  |  |  |  |  |      |                                                                                                                                                                                                                                                                                                                           |  |  |  |           |     |     |           |      |      |    |            |     |     |    |
| 093M.028                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | 1501                                | VB                                  | 5.5                                 | HC                       | 50                                                                                                          | HC                       | R:                       | F:                                                                                                                                                                                                                     | L:       | #:                                                                                                                                                                                                                                                                   | 9.655889.6122348 |                                                                                        | GIS    |       |       |         |       |       |       |       |       |       |       |             |                                     |                                     |                                     |                          |                                     |                          |                          |               |  |  |  |  |      |                   |   |      |      |      |      |      |      |  |  |  |  |      |                 |    |      |      |      |  |  |  |  |  |  |  |      |                                                                                                                                                                                                                                                                                                                           |  |  |  |           |     |     |           |      |      |    |            |     |     |    |
| Comments: impassable to juvenile RB @moderate to high flows - from mouth                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                                     |                                     |                                     |                          |                                                                                                             |                          |                          |                                                                                                                                                                                                                        |          |                                                                                                                                                                                                                                                                      |                  |                                                                                        |        |       |       |         |       |       |       |       |       |       |       |             |                                     |                                     |                                     |                          |                                     |                          |                          |               |  |  |  |  |      |                   |   |      |      |      |      |      |      |  |  |  |  |      |                 |    |      |      |      |  |  |  |  |  |  |  |      |                                                                                                                                                                                                                                                                                                                           |  |  |  |           |     |     |           |      |      |    |            |     |     |    |
| HABITAT QUALITY                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                                     |                                     |                                     |                          |                                                                                                             |                          |                          |                                                                                                                                                                                                                        |          |                                                                                                                                                                                                                                                                      |                  |                                                                                        |        |       |       |         |       |       |       |       |       |       |       |             |                                     |                                     |                                     |                          |                                     |                          |                          |               |  |  |  |  |      |                   |   |      |      |      |      |      |      |  |  |  |  |      |                 |    |      |      |      |  |  |  |  |  |  |  |      |                                                                                                                                                                                                                                                                                                                           |  |  |  |           |     |     |           |      |      |    |            |     |     |    |
| Name                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                                     |                                     |                                     |                          | Comments                                                                                                    |                          |                          |                                                                                                                                                                                                                        |          |                                                                                                                                                                                                                                                                      |                  |                                                                                        |        |       |       |         |       |       |       |       |       |       |       |             |                                     |                                     |                                     |                          |                                     |                          |                          |               |  |  |  |  |      |                   |   |      |      |      |      |      |      |  |  |  |  |      |                 |    |      |      |      |  |  |  |  |  |  |  |      |                                                                                                                                                                                                                                                                                                                           |  |  |  |           |     |     |           |      |      |    |            |     |     |    |
| Rearing Habitat                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                                     |                                     |                                     |                          | Stream dewatered wiothin few weeks of high flow. Intermittent trickle observed only within 100m from mouth. |                          |                          |                                                                                                                                                                                                                        |          |                                                                                                                                                                                                                                                                      |                  |                                                                                        |        |       |       |         |       |       |       |       |       |       |       |             |                                     |                                     |                                     |                          |                                     |                          |                          |               |  |  |  |  |      |                   |   |      |      |      |      |      |      |  |  |  |  |      |                 |    |      |      |      |  |  |  |  |  |  |  |      |                                                                                                                                                                                                                                                                                                                           |  |  |  |           |     |     |           |      |      |    |            |     |     |    |

# FDIS Site Card

## 2006 RFFHI Babine L. Tributaries - Re-sampling

Watershed Code: 480-466800-12000-47139-0000-0000-000-000-000-000

|         |           |       |      |
|---------|-----------|-------|------|
| Reach # | ILP Map # | ILP # | Site |
| 1.0     | 093M.028  | 10274 | 114  |

| HABITAT QUALITY    |        |                                                                                                                                                                      |     |                                          |
|--------------------|--------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----|------------------------------------------|
| Name               |        | Comments                                                                                                                                                             |     |                                          |
| Other              |        | All above indicates fish don't use this stream even seasonally. Initial 10-12% gradient also likely velocity barrier. Stream sampled in the past wit NFC.            |     |                                          |
| OverWinter Habitat |        |                                                                                                                                                                      |     |                                          |
| Cover              |        | 1 good pool 60m u/s from mouth, fishless, abundant invertebrae (mosquitos, caddis, stoneflies).                                                                      |     |                                          |
|                    |        | Seasonal stream with high debris transport capabilities when watered. Fish absent in 2 watered pools close to parent stream (RB v. abundant - 11RB in 12 sec of EF). |     |                                          |
| PHOTOS             |        |                                                                                                                                                                      |     |                                          |
| Photo              |        | Foc Lg                                                                                                                                                               | Dir | Comments                                 |
| R: DIG             | F: 956 | STD                                                                                                                                                                  | U   | person for scale - small sediment wedge. |
| R: DIG             | F: 957 | STD                                                                                                                                                                  | D   | probe for scale                          |
| COMMENTS           |        |                                                                                                                                                                      |     |                                          |
| Section            |        | Comments                                                                                                                                                             |     |                                          |
| SITE CARD          |        | velocity barrier calculated in the office using Manning formula                                                                                                      |     |                                          |
| SITE CARD          |        | S6                                                                                                                                                                   |     |                                          |
| CHANNEL            |        | some overhanging banks present                                                                                                                                       |     |                                          |
| SITE CARD          |        | site from mouth                                                                                                                                                      |     |                                          |



# FDIS Fish Card

## 2006 RFFHI Babine L. Tributaries - Re-sampling

Watershed Code:480-466800-12000-47139-0000-0000-000-000-000-000-000

Reach #1.0

ILP Map #093M.028

ILP #10274

|                                                               |          |       |                          |                     |         |                |          |                 |           |              |            |                                    |  |
|---------------------------------------------------------------|----------|-------|--------------------------|---------------------|---------|----------------|----------|-----------------|-----------|--------------|------------|------------------------------------|--|
| WATERBODY                                                     |          |       |                          |                     |         |                |          |                 |           |              |            |                                    |  |
| Gazetted Name:Local: Unnamed Creek                            |          |       |                          |                     |         |                |          |                 |           |              |            |                                    |  |
| Project Code: 480-000000-00000-00000-0000-000-000-000-000-0   |          |       |                          |                     |         |                |          |                 |           |              |            |                                    |  |
| WS Code: 480-466800-12000-47139-0000-0000-000-000-000-000-000 |          |       |                          |                     |         |                |          |                 |           |              |            |                                    |  |
| Waterbody ID:                                                 |          |       |                          | ILP Map #: 093M.028 |         |                |          | ILP #: 10274    |           | Reach #: 1 - |            |                                    |  |
| Project ID: 06-BABL-00015953-2006                             |          |       |                          | Lake/Stream: S      |         |                |          | Lake From Date: |           |              |            |                                    |  |
| Fish Permit #: SM06-24176                                     |          |       |                          | Date: 2006/08/01    |         | To: 2006/08/01 |          | Agency: C016    |           | Crew: MJ/JL  |            | Resample: <input type="checkbox"/> |  |
| SITE / METHOD                                                 |          |       |                          |                     |         |                |          |                 |           |              |            |                                    |  |
| Site#                                                         | NID Map  | NID # | UTM:Zone/East/North/Mthd |                     |         | MTD/NO         |          | Temp            | Cond      | Turbid       | Comment    |                                    |  |
| 114                                                           | 093M.028 | 15    | 9                        | 655885              | 6122350 | GP3            | VO 1     | 12              | 110       | C            |            |                                    |  |
| 114                                                           | 093M.028 | 15    | 9                        | 655885              | 6122350 | GP3            | EF 1     | 12              | 110       | C            |            |                                    |  |
| A. GEAR SETTINGS                                              |          |       |                          |                     |         |                |          |                 |           |              |            |                                    |  |
| Site#                                                         | MTD/NO   |       | H/P                      | Date In             | Time In | Date Out       | Time Out | Comment         |           |              |            |                                    |  |
| 114                                                           | EF       | 1     | 1                        | 2006/08/01          | 11:50   | 2006/08/01     | 12:30    |                 |           |              |            |                                    |  |
| 114                                                           | VO       | 1     | 1                        | 2006/08/01          | 11:50   | 2006/08/01     | 11:51    |                 |           |              |            |                                    |  |
| C. ELECTROFISHER SPECIFICATIONS                               |          |       |                          |                     |         |                |          |                 |           |              |            |                                    |  |
| Site#                                                         | MTD/NO   |       | H/P                      | Encl                | Sec     | Length         | Width    | Voltage         | Frequency | Pulse        | Make       | Model                              |  |
| 114                                                           | EF       | 1     | 1                        | O                   | 59      | 100.0          | 0.5      | 400             | 70        | 6            | SMITH-ROOT | 12 B                               |  |
| FISH SUMMARY                                                  |          |       |                          |                     |         |                |          |                 |           |              |            |                                    |  |
| Site#                                                         | MTD/NO   |       | H/P                      | Species             | Stage   | Age            | Total #  | Lgth (Min/Max)  |           | FishAct      | Comment    |                                    |  |
| 114                                                           | EF       | 1     | 1                        | NFC                 |         |                | 0        |                 |           |              |            |                                    |  |
| 114                                                           | VO       | 1     | 1                        | NFC                 |         |                | 0        |                 |           |              |            |                                    |  |

FDIS Reach Card

2006 RFFHI Babine L. Tributaries - Re-sampling

|                                                                      |  |                |                       |                |
|----------------------------------------------------------------------|--|----------------|-----------------------|----------------|
| Watershed Code: 480-466800-12000-47139-0000-0000-000-000-000-000-000 |  | Reach #<br>1.0 | ILP Map #<br>093M.028 | ILP #<br>10274 |
|----------------------------------------------------------------------|--|----------------|-----------------------|----------------|

|                                                                             |  |                                     |  |  |
|-----------------------------------------------------------------------------|--|-------------------------------------|--|--|
| PROJECT                                                                     |  |                                     |  |  |
| Project Name: Babine Lake Face Unit Re-sampling - 2006                      |  |                                     |  |  |
| Stream Name (gaz.): BABINE RIVER                                            |  | Project Code: 06-BABL-00015953-2006 |  |  |
| Project Watershed Code: 480-000000-00000-00000-0000-000-000-000-000-000-000 |  |                                     |  |  |

|                                                                            |                      |                                                  |                             |              |
|----------------------------------------------------------------------------|----------------------|--------------------------------------------------|-----------------------------|--------------|
| WATERSHED                                                                  |                      |                                                  |                             |              |
| Reach Watershed Code: 480-466800-12000-47139-0000-0000-000-000-000-000-000 |                      |                                                  |                             |              |
| ILP Map #: 093M.028                                                        | ILP #: 10274         | Reach #: 1.0                                     | NID Map #: 093M.028         | NID #: 20012 |
| Air Photos                                                                 | Names                |                                                  | UTM(Zone/East/North/Method) |              |
| LINE:                                                                      | Gaz.:                | 9.656001.6122147   GIS                           |                             |              |
| #:                                                                         | Local: Unnamed Creek | Sample Type: B Wetland: <input type="checkbox"/> |                             |              |

|                  |  |              |             |  |
|------------------|--|--------------|-------------|--|
| SURVEY INFO      |  |              |             |  |
| Date: 2006/06/20 |  | Agency: C016 | Crew: MJ/JL |  |

|                                                     |               |                                                                                                                                                                                                |                                                                                                                                                                                                     |                          |                          |                          |                          |                          |                          |                          |                          |                          |  |  |
|-----------------------------------------------------|---------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|--|--|
| ATTRIBUTES                                          |               |                                                                                                                                                                                                |                                                                                                                                                                                                     |                          |                          |                          |                          |                          |                          |                          |                          |                          |  |  |
| Length (km): .25                                    | Gradient: 5.6 | Setting: VW                                                                                                                                                                                    | DISTURBANCE INDICATORS                                                                                                                                                                              |                          |                          |                          |                          |                          |                          |                          |                          |                          |  |  |
| DS Elev.: 780                                       | Order: 3      | Open water: A                                                                                                                                                                                  | <input type="checkbox"/> O1 <input type="checkbox"/> B1 <input type="checkbox"/> B2 <input type="checkbox"/> B3 <input type="checkbox"/> D1 <input type="checkbox"/> D2 <input type="checkbox"/> D3 |                          |                          |                          |                          |                          |                          |                          |                          |                          |  |  |
| US Elev: 794                                        | Magnitude: 6  | Confinement: CO                                                                                                                                                                                | C1                                                                                                                                                                                                  | C2                       | C3                       | C4                       | C5                       | S1                       | S2                       | S3                       | S4                       | S5                       |  |  |
|                                                     | BGC Zone: SBS | Coupling: CO                                                                                                                                                                                   | <input type="checkbox"/>                                                                                                                                                                            | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |  |  |
| Valley Flat: N                                      | C/D:          | Islands: N                                                                                                                                                                                     |                                                                                                                                                                                                     |                          |                          |                          |                          |                          |                          |                          |                          |                          |  |  |
| Active Floodplain Visible: <input type="checkbox"/> | Est. Width:   | Bars: <input checked="" type="checkbox"/> N <input type="checkbox"/> SIDE <input type="checkbox"/> DIAG <input type="checkbox"/> MID <input type="checkbox"/> SPAN <input type="checkbox"/> BR |                                                                                                                                                                                                     |                          |                          |                          |                          |                          |                          |                          |                          |                          |  |  |
| Channel Pattern: SI                                 |               | Mass Movement: L                                                                                                                                                                               | Exposed/Eroded: N                                                                                                                                                                                   |                          |                          |                          |                          |                          |                          |                          |                          |                          |  |  |
|                                                     |               | Riparian Veg.: C                                                                                                                                                                               | Landuse: NO                                                                                                                                                                                         |                          |                          |                          |                          |                          |                          |                          |                          |                          |  |  |

|          |          |      |
|----------|----------|------|
| MAPS     |          |      |
| Map Type | Map #    | Year |
| TRIM     | 093M.028 | 2006 |



# FDIS Site Card

## 2006 RFFHI Babine L. Tributaries - Re-sampling

Watershed Code: 480-463533-00000-00000-0000-000-000-000-000-000-000

Reach # 1.0 ILP Map # 093M.028 ILP # 10283 Site 115

| PROJECT                                                                     |                                     |
|-----------------------------------------------------------------------------|-------------------------------------|
| Project Name: Babine Lake Face Unit Re-sampling - 2006                      | Project Code: 06-BABL-00015953-2006 |
| Stream Name (gaz.): BABINE RIVER                                            |                                     |
| Project Watershed Code: 480-000000-00000-00000-0000-000-000-000-000-000-000 |                                     |

| WATERSHED                                                           |                                                                                                               |
|---------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------|
| Gazetted Name:                                                      | Local Name: Unnamed Creek                                                                                     |
| Watershed Code: 480-463533-00000-00000-0000-000-000-000-000-000-000 |                                                                                                               |
| ILP Map#: 093M.028                                                  | ILP #: 10283 NID Map #: 093M.028                                                                              |
| NID #: 1                                                            | Reach #: 1.0 Site #: 115                                                                                      |
| Field UTM (Z.E.N): 9.654903.6123505                                 | Method: GP3                                                                                                   |
| GIS UTM (Z.E.N): 9.654848.6123528                                   | Site Lg: 100 Method: NS Access: B                                                                             |
| Ref. Name:                                                          |                                                                                                               |
| Date: 2006/07/01                                                    | Time: 09:00 Agency: C016 Crew: MJ/JL Fish Crd?: <input type="checkbox"/> Incomplete: <input type="checkbox"/> |

| CHANNEL                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                          |                          |                          |                          |                          |                          |                                                                                         |                                                                                         |                                                                                                                                                         |         |       |       |     |                    |   |      |      |             |                          |                          |                          |                          |                          |                          |                          |                                                                                                                                                |                   |   |      |      |  |  |  |  |  |  |  |  |      |                 |    |  |  |  |  |  |  |  |  |  |  |      |                                                                                                                                                                                                                                                                                                                       |  |           |     |     |           |     |     |    |            |     |  |    |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|-----------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------|---------|-------|-------|-----|--------------------|---|------|------|-------------|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|------------------------------------------------------------------------------------------------------------------------------------------------|-------------------|---|------|------|--|--|--|--|--|--|--|--|------|-----------------|----|--|--|--|--|--|--|--|--|--|--|------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|-----------|-----|-----|-----------|-----|-----|----|------------|-----|--|----|
| <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th></th> <th>Mtd</th> <th>width</th> <th>width</th> <th>width</th> <th>width</th> <th>width</th> <th>width</th> <th>width</th> <th>width</th> <th>width</th> <th>width</th> <th>Avg</th> </tr> </thead> <tbody> <tr> <td>Channel Width (m):</td> <td>T</td> <td>0.40</td> <td>0.40</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>0.40</td> </tr> <tr> <td>Wetted Width (m):</td> <td>T</td> <td>0.00</td> <td>0.40</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>0.20</td> </tr> <tr> <td>Pool Depth (m):</td> <td>MS</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>0.00</td> </tr> </tbody> </table> |                          | Mtd                      | width                    | width                    | width                    | width                    | width                                                                                   | width                                                                                   | width                                                                                                                                                   | width   | width | width | Avg | Channel Width (m): | T | 0.40 | 0.40 |             |                          |                          |                          |                          |                          |                          |                          | 0.40                                                                                                                                           | Wetted Width (m): | T | 0.00 | 0.40 |  |  |  |  |  |  |  |  | 0.20 | Pool Depth (m): | MS |  |  |  |  |  |  |  |  |  |  | 0.00 | <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th></th> <th>Gadient %</th> <th>Mtd</th> <th>Avg</th> </tr> </thead> <tbody> <tr> <td>Method I:</td> <td>3.0</td> <td>2.0</td> <td>AL</td> </tr> <tr> <td>Method II:</td> <td>4.0</td> <td></td> <td>AL</td> </tr> </tbody> </table> |  | Gadient % | Mtd | Avg | Method I: | 3.0 | 2.0 | AL | Method II: | 4.0 |  | AL |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | Mtd                      | width                    | width                    | width                    | width                    | width                    | width                                                                                   | width                                                                                   | width                                                                                                                                                   | width   | width | Avg   |     |                    |   |      |      |             |                          |                          |                          |                          |                          |                          |                          |                                                                                                                                                |                   |   |      |      |  |  |  |  |  |  |  |  |      |                 |    |  |  |  |  |  |  |  |  |  |  |      |                                                                                                                                                                                                                                                                                                                       |  |           |     |     |           |     |     |    |            |     |  |    |
| Channel Width (m):                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | T                        | 0.40                     | 0.40                     |                          |                          |                          |                                                                                         |                                                                                         |                                                                                                                                                         |         |       | 0.40  |     |                    |   |      |      |             |                          |                          |                          |                          |                          |                          |                          |                                                                                                                                                |                   |   |      |      |  |  |  |  |  |  |  |  |      |                 |    |  |  |  |  |  |  |  |  |  |  |      |                                                                                                                                                                                                                                                                                                                       |  |           |     |     |           |     |     |    |            |     |  |    |
| Wetted Width (m):                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | T                        | 0.00                     | 0.40                     |                          |                          |                          |                                                                                         |                                                                                         |                                                                                                                                                         |         |       | 0.20  |     |                    |   |      |      |             |                          |                          |                          |                          |                          |                          |                          |                                                                                                                                                |                   |   |      |      |  |  |  |  |  |  |  |  |      |                 |    |  |  |  |  |  |  |  |  |  |  |      |                                                                                                                                                                                                                                                                                                                       |  |           |     |     |           |     |     |    |            |     |  |    |
| Pool Depth (m):                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | MS                       |                          |                          |                          |                          |                          |                                                                                         |                                                                                         |                                                                                                                                                         |         |       | 0.00  |     |                    |   |      |      |             |                          |                          |                          |                          |                          |                          |                          |                                                                                                                                                |                   |   |      |      |  |  |  |  |  |  |  |  |      |                 |    |  |  |  |  |  |  |  |  |  |  |      |                                                                                                                                                                                                                                                                                                                       |  |           |     |     |           |     |     |    |            |     |  |    |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | Gadient %                | Mtd                      | Avg                      |                          |                          |                          |                                                                                         |                                                                                         |                                                                                                                                                         |         |       |       |     |                    |   |      |      |             |                          |                          |                          |                          |                          |                          |                          |                                                                                                                                                |                   |   |      |      |  |  |  |  |  |  |  |  |      |                 |    |  |  |  |  |  |  |  |  |  |  |      |                                                                                                                                                                                                                                                                                                                       |  |           |     |     |           |     |     |    |            |     |  |    |
| Method I:                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | 3.0                      | 2.0                      | AL                       |                          |                          |                          |                                                                                         |                                                                                         |                                                                                                                                                         |         |       |       |     |                    |   |      |      |             |                          |                          |                          |                          |                          |                          |                          |                                                                                                                                                |                   |   |      |      |  |  |  |  |  |  |  |  |      |                 |    |  |  |  |  |  |  |  |  |  |  |      |                                                                                                                                                                                                                                                                                                                       |  |           |     |     |           |     |     |    |            |     |  |    |
| Method II:                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | 4.0                      |                          | AL                       |                          |                          |                          |                                                                                         |                                                                                         |                                                                                                                                                         |         |       |       |     |                    |   |      |      |             |                          |                          |                          |                          |                          |                          |                          |                                                                                                                                                |                   |   |      |      |  |  |  |  |  |  |  |  |      |                 |    |  |  |  |  |  |  |  |  |  |  |      |                                                                                                                                                                                                                                                                                                                       |  |           |     |     |           |     |     |    |            |     |  |    |
| <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 10%;">Wb Depth:</td> <td style="width: 10%;">.3</td> <td style="width: 10%;"></td> <td style="width: 10%;"></td> <td style="width: 10%;"></td> <td style="width: 10%;">Avg: 0.30</td> <td style="width: 10%;">Method: MS</td> <td style="width: 10%;">Stage: L <input type="checkbox"/> M <input type="checkbox"/> H <input type="checkbox"/></td> </tr> </table>                                                                                                                                                                                                                                                                                                                                                                                 | Wb Depth:                | .3                       |                          |                          |                          | Avg: 0.30                | Method: MS                                                                              | Stage: L <input type="checkbox"/> M <input type="checkbox"/> H <input type="checkbox"/> | No Vis.Ch.: <input checked="" type="checkbox"/> Intermittent: <input type="checkbox"/><br>Dw: <input type="checkbox"/> Tribs.: <input type="checkbox"/> |         |       |       |     |                    |   |      |      |             |                          |                          |                          |                          |                          |                          |                          |                                                                                                                                                |                   |   |      |      |  |  |  |  |  |  |  |  |      |                 |    |  |  |  |  |  |  |  |  |  |  |      |                                                                                                                                                                                                                                                                                                                       |  |           |     |     |           |     |     |    |            |     |  |    |
| Wb Depth:                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | .3                       |                          |                          |                          | Avg: 0.30                | Method: MS               | Stage: L <input type="checkbox"/> M <input type="checkbox"/> H <input type="checkbox"/> |                                                                                         |                                                                                                                                                         |         |       |       |     |                    |   |      |      |             |                          |                          |                          |                          |                          |                          |                          |                                                                                                                                                |                   |   |      |      |  |  |  |  |  |  |  |  |      |                 |    |  |  |  |  |  |  |  |  |  |  |      |                                                                                                                                                                                                                                                                                                                       |  |           |     |     |           |     |     |    |            |     |  |    |
| COVER Total: <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th>Type:</th> <th>SWD</th> <th>LWD</th> <th>B</th> <th>U</th> <th>DP</th> <th>OV</th> <th>IV</th> </tr> </thead> <tbody> <tr> <td>Amount:</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>Loc: P/S/O:</td> <td><input type="checkbox"/></td> <td><input type="checkbox"/></td> <td><input type="checkbox"/></td> <td><input type="checkbox"/></td> <td><input type="checkbox"/></td> <td><input type="checkbox"/></td> <td><input type="checkbox"/></td> </tr> </tbody> </table>                                                                                                                                                                                                                    |                          | Type:                    | SWD                      | LWD                      | B                        | U                        | DP                                                                                      | OV                                                                                      | IV                                                                                                                                                      | Amount: |       |       |     |                    |   |      |      | Loc: P/S/O: | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | CROWN CLOSURE<br><br>INSTREAM VEG: N <input type="checkbox"/> A <input type="checkbox"/> M <input type="checkbox"/> V <input type="checkbox"/> |                   |   |      |      |  |  |  |  |  |  |  |  |      |                 |    |  |  |  |  |  |  |  |  |  |  |      |                                                                                                                                                                                                                                                                                                                       |  |           |     |     |           |     |     |    |            |     |  |    |
| Type:                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | SWD                      | LWD                      | B                        | U                        | DP                       | OV                       | IV                                                                                      |                                                                                         |                                                                                                                                                         |         |       |       |     |                    |   |      |      |             |                          |                          |                          |                          |                          |                          |                          |                                                                                                                                                |                   |   |      |      |  |  |  |  |  |  |  |  |      |                 |    |  |  |  |  |  |  |  |  |  |  |      |                                                                                                                                                                                                                                                                                                                       |  |           |     |     |           |     |     |    |            |     |  |    |
| Amount:                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                          |                          |                          |                          |                          |                          |                                                                                         |                                                                                         |                                                                                                                                                         |         |       |       |     |                    |   |      |      |             |                          |                          |                          |                          |                          |                          |                          |                                                                                                                                                |                   |   |      |      |  |  |  |  |  |  |  |  |      |                 |    |  |  |  |  |  |  |  |  |  |  |      |                                                                                                                                                                                                                                                                                                                       |  |           |     |     |           |     |     |    |            |     |  |    |
| Loc: P/S/O:                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/>                                                                |                                                                                         |                                                                                                                                                         |         |       |       |     |                    |   |      |      |             |                          |                          |                          |                          |                          |                          |                          |                                                                                                                                                |                   |   |      |      |  |  |  |  |  |  |  |  |      |                 |    |  |  |  |  |  |  |  |  |  |  |      |                                                                                                                                                                                                                                                                                                                       |  |           |     |     |           |     |     |    |            |     |  |    |
| LWD: DIST:<br><br>LB SHP: RB SHP:<br>Texture: F <input type="checkbox"/> G <input type="checkbox"/> C <input type="checkbox"/> B <input type="checkbox"/> R <input type="checkbox"/> A <input type="checkbox"/><br>RIP: STG:                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                          |                          |                          |                          |                          |                          |                                                                                         |                                                                                         |                                                                                                                                                         |         |       |       |     |                    |   |      |      |             |                          |                          |                          |                          |                          |                          |                          |                                                                                                                                                |                   |   |      |      |  |  |  |  |  |  |  |  |      |                 |    |  |  |  |  |  |  |  |  |  |  |      |                                                                                                                                                                                                                                                                                                                       |  |           |     |     |           |     |     |    |            |     |  |    |

| WATER        |                                                                                                                               |
|--------------|-------------------------------------------------------------------------------------------------------------------------------|
| EMS:         | Req #:                                                                                                                        |
| Temp:        | Cond.:                                                                                                                        |
| pH:          | Method: T3                                                                                                                    |
| Flood Signs: | Method: P4                                                                                                                    |
|              | Method: GE                                                                                                                    |
|              | Turb.: T <input type="checkbox"/> M <input type="checkbox"/> L <input type="checkbox"/> C <input type="checkbox"/> Method: S4 |
|              | Method: GE                                                                                                                    |

| MORPHOLOGY                    |                                                                                                                                                                                     |
|-------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Bed Material:                 | O1 B1 B2 B3 D1 D2 D3                                                                                                                                                                |
| D95:                          | D (cm):                                                                                                                                                                             |
| Subdom:                       | Morph:                                                                                                                                                                              |
| PATTERN:                      | DISTURBANCE INDICATORS                                                                                                                                                              |
| Islands:                      | C1 C2 C3 C4 C5 S1 S2 S3 S4 S5                                                                                                                                                       |
| Coupling:                     |                                                                                                                                                                                     |
| Confinement:                  |                                                                                                                                                                                     |
| FSZ: <input type="checkbox"/> | Bars: N <input type="checkbox"/> SIDE <input type="checkbox"/> DIAG <input type="checkbox"/> MID <input type="checkbox"/> SPAN <input type="checkbox"/> BR <input type="checkbox"/> |

| HABITAT QUALITY |                                                                                                                                               |
|-----------------|-----------------------------------------------------------------------------------------------------------------------------------------------|
| Name            | Comments                                                                                                                                      |
| Other           | NFH - not a stream; short 30m channelized section near mouth with no usable seasonal habitat; drainage dry past 30m (only one wetted puddle). |

| PHOTOS        |        |     |                |
|---------------|--------|-----|----------------|
| Photo         | Foc Lg | Dir | Comments       |
| R: DIG F: 845 | STD    | U   | book for scale |
| R: DIG F: 846 | STD    | D   | book for scale |



# FDIS Site Card

## 2006 RFFHI Babine L. Tributaries - Re-sampling

Watershed Code: 480-463533-00000-00000-0000-000-000-000-000-000-000

Reach #

ILP Map #

ILP #

Site

1.0

093M.028

10283

115

| COMMENTS   |                                                                                                                      |
|------------|----------------------------------------------------------------------------------------------------------------------|
| Section    | Comments                                                                                                             |
| SITE CARD  | NCD                                                                                                                  |
| SITE CARD  | Suspected section not surveyed past 30m; original gradient reading untrue.                                           |
| MORPHOLOGY | No continuous channel past 30m from mouth; meltwater runoff with occasionally washed out duff layer in forest floor. |
| SITE CARD  | Site from mouth                                                                                                      |



FDIS Reach Card

2006 RFFHI Babine L. Tributaries - Re-sampling

|                                                                      |  |                |                       |                |
|----------------------------------------------------------------------|--|----------------|-----------------------|----------------|
| Watershed Code: 480-463533-00000-00000-0000-0000-000-000-000-000-000 |  | Reach #<br>1.0 | ILP Map #<br>093M.028 | ILP #<br>10283 |
|----------------------------------------------------------------------|--|----------------|-----------------------|----------------|

|                                                                              |  |                                     |  |  |
|------------------------------------------------------------------------------|--|-------------------------------------|--|--|
| PROJECT                                                                      |  |                                     |  |  |
| Project Name: Babine Lake Face Unit Re-sampling - 2006                       |  |                                     |  |  |
| Stream Name (gaz.): BABINE RIVER                                             |  | Project Code: 06-BABL-00015953-2006 |  |  |
| Project Watershed Code: 480-000000-00000-00000-0000-0000-000-000-000-000-000 |  |                                     |  |  |

|                                                                            |                      |                                                  |                             |              |
|----------------------------------------------------------------------------|----------------------|--------------------------------------------------|-----------------------------|--------------|
| WATERSHED                                                                  |                      |                                                  |                             |              |
| Reach Watershed Code: 480-463533-00000-00000-0000-0000-000-000-000-000-000 |                      |                                                  |                             |              |
| ILP Map #: 093M.028                                                        | ILP #: 10283         | Reach #: 1.0                                     | NID Map #: 093M.028         | NID #: 20408 |
| Air Photos                                                                 | Names                |                                                  | UTM(Zone/East/North/Method) |              |
| LINE:                                                                      | Gaz.:                | 9.655311.6124264   GIS                           |                             |              |
| #:                                                                         | Local: Unnamed Creek | Sample Type: B Wetland: <input type="checkbox"/> |                             |              |

|                  |  |              |  |             |
|------------------|--|--------------|--|-------------|
| SURVEY INFO      |  |              |  |             |
| Date: 2006/06/20 |  | Agency: C016 |  | Crew: MJ/JL |

|                                                     |                |                                                                                                                                                                                                |                          |                          |                          |                          |                          |                          |                          |                          |                          |                          |
|-----------------------------------------------------|----------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|
| ATTRIBUTES                                          |                |                                                                                                                                                                                                |                          |                          |                          |                          |                          |                          |                          |                          |                          |                          |
| Length (km): 1.03                                   | Gradient: 5.15 | Setting: VW                                                                                                                                                                                    | DISTURBANCE              |                          | O1                       | B1                       | B2                       | B3                       | D1                       | D2                       | D3                       |                          |
| DS Elev.: 718                                       | Order: 1       | Open water: A                                                                                                                                                                                  | INDICATORS               |                          | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |                          |
| US Elev: 771                                        | Magnitude: 1   | Confinement: FC                                                                                                                                                                                | C1                       | C2                       | C3                       | C4                       | C5                       | S1                       | S2                       | S3                       | S4                       | S5                       |
|                                                     | BGC Zone: SBS  | Coupling: PC                                                                                                                                                                                   | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| Valley Flat: NS                                     | C/D:           | Islands: N                                                                                                                                                                                     |                          |                          |                          |                          |                          |                          |                          |                          |                          |                          |
| Active Floodplain Visible: <input type="checkbox"/> | Est. Width:    | Bars: <input checked="" type="checkbox"/> N <input type="checkbox"/> SIDE <input type="checkbox"/> DIAG <input type="checkbox"/> MID <input type="checkbox"/> SPAN <input type="checkbox"/> BR |                          |                          |                          |                          |                          |                          |                          |                          |                          |                          |
| Channel Pattern: SI                                 |                | Mass Movement: L                                                                                                                                                                               | Exposed/Eroded: N        |                          |                          |                          |                          |                          |                          |                          |                          |                          |
|                                                     |                | Riparian Veg.: M                                                                                                                                                                               | Landuse: NO              |                          |                          |                          |                          |                          |                          |                          |                          |                          |

|          |          |      |
|----------|----------|------|
| MAPS     |          |      |
| Map Type | Map #    | Year |
| TRIM     | 093M.028 | 2006 |

# FDIS Site Card

## 2006 RFFHI Babine L. Tributaries - Re-sampling

Watershed Code: 480-460300-00000-00000-0000-0000-000-000-000-000-000

|         |           |       |      |
|---------|-----------|-------|------|
| Reach # | ILP Map # | ILP # | Site |
| 1.1     | 093M.028  | 10347 | 116  |

### PROJECT

|                                                                              |                                     |
|------------------------------------------------------------------------------|-------------------------------------|
| Project Name: Babine Lake Face Unit Re-sampling - 2006                       | Project Code: 06-BABL-00015953-2006 |
| Stream Name (gaz.): BABINE RIVER                                             |                                     |
| Project Watershed Code: 480-000000-00000-00000-0000-0000-000-000-000-000-000 |                                     |

### WATERSHED

|                                                                      |                           |                     |             |                                                |                                      |
|----------------------------------------------------------------------|---------------------------|---------------------|-------------|------------------------------------------------|--------------------------------------|
| Gazetted Name:                                                       | Local Name: Unnamed Creek |                     |             |                                                |                                      |
| Watershed Code: 480-460300-00000-00000-0000-0000-000-000-000-000-000 |                           |                     |             |                                                |                                      |
| ILP Map #: 093M.028                                                  | ILP #: 10347              | NID Map #: 093M.028 | NID #: 2    | Reach #: 1.1                                   | Site #: 116                          |
| Field UTM (Z.E.N): 9.655456.6125103                                  | Method: GP3               | Site Lg: 150        | Method: GE  | Access: FT                                     |                                      |
| GIS UTM (Z.E.N): 9.655461.6125103                                    | Ref. Name:                |                     |             |                                                |                                      |
| Date: 2006/07/30                                                     | Time: 11:30               | Agency: C016        | Crew: MJ/JL | Fish Crd?: <input checked="" type="checkbox"/> | Incomplete: <input type="checkbox"/> |

### CHANNEL

|                    |     |       |       |       |       |       |       |       |       |       |       |      |            |           |      |     |      |
|--------------------|-----|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|------|------------|-----------|------|-----|------|
|                    | Mtd | width | width | width | width | width | width | width | width | width | width | Avg  |            | Gadient % | Mtd  | Avg |      |
| Channel Width (m): | T   | 2.60  | 3.10  | 2.90  | 2.90  | 2.30  | 2.40  |       |       |       |       | 2.70 | Method I:  | 7.0       | 12.0 | AL  | 9.50 |
| Wetted Width (m):  | T   | 0.00  | 0.00  | 0.30  | 1.70  | 0.50  | 0.00  |       |       |       |       | 0.42 | Method II: |           |      | AL  |      |
| Pool Depth (m):    | MS  | 0.19  | 0.25  |       |       |       |       |       |       |       |       | 0.22 |            |           |      |     |      |

|           |    |    |    |           |            |                                                                                                    |                                                                                        |                                                               |
|-----------|----|----|----|-----------|------------|----------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------|---------------------------------------------------------------|
| Wb Depth: | .4 | .5 | .4 | Avg: 0.43 | Method: MS | Stage: L <input checked="" type="checkbox"/> M <input type="checkbox"/> H <input type="checkbox"/> | No Vis.Ch.: <input type="checkbox"/> Intermittent: <input checked="" type="checkbox"/> | Dw: <input type="checkbox"/> Tribs.: <input type="checkbox"/> |
|-----------|----|----|----|-----------|------------|----------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------|---------------------------------------------------------------|

|             |                                                                            |                                                                            |                                                                                       |                                                                            |                                                                                       |                                                                                       |                                                                            |
|-------------|----------------------------------------------------------------------------|----------------------------------------------------------------------------|---------------------------------------------------------------------------------------|----------------------------------------------------------------------------|---------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|----------------------------------------------------------------------------|
| COVER       | Total: T                                                                   |                                                                            |                                                                                       |                                                                            |                                                                                       |                                                                                       |                                                                            |
| Type:       | SWD                                                                        | LWD                                                                        | B                                                                                     | U                                                                          | DP                                                                                    | OV                                                                                    | IV                                                                         |
| Amount:     | N                                                                          | N                                                                          | S                                                                                     | N                                                                          | D                                                                                     | T                                                                                     | N                                                                          |
| Loc: P/S/O: | <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> | <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> | <input checked="" type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> | <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> | <input checked="" type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> | <input checked="" type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> | <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> |

|                                                                                                                                                                                                             |                                                                                                                                                                                                             |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| LWD: N                                                                                                                                                                                                      | DIST:                                                                                                                                                                                                       |
| LB SHP: S                                                                                                                                                                                                   | RB SHP: S                                                                                                                                                                                                   |
| Texture: F <input checked="" type="checkbox"/> G <input checked="" type="checkbox"/> C <input checked="" type="checkbox"/> B <input type="checkbox"/> R <input type="checkbox"/> A <input type="checkbox"/> | Texture: F <input checked="" type="checkbox"/> G <input checked="" type="checkbox"/> C <input checked="" type="checkbox"/> B <input type="checkbox"/> R <input type="checkbox"/> A <input type="checkbox"/> |
| RIP: S                                                                                                                                                                                                      | RIP: S                                                                                                                                                                                                      |
| STG: NA                                                                                                                                                                                                     | STG: NA                                                                                                                                                                                                     |

|               |                                                                                                                        |        |
|---------------|------------------------------------------------------------------------------------------------------------------------|--------|
| CROWN CLOSURE | 2                                                                                                                      | 21-40% |
| INSTREAM VEG: | N <input checked="" type="checkbox"/> A <input type="checkbox"/> M <input type="checkbox"/> V <input type="checkbox"/> |        |

### WATER

|                                |            |                                                                                                                               |            |
|--------------------------------|------------|-------------------------------------------------------------------------------------------------------------------------------|------------|
| EMS:                           | Method: T3 | Req #:                                                                                                                        |            |
| Temp: 11                       | Method: P4 | Cond.: 80                                                                                                                     | Method: S4 |
| pH: 7.0                        | Method: GE | Turb.: T <input type="checkbox"/> M <input type="checkbox"/> L <input type="checkbox"/> C <input checked="" type="checkbox"/> | Method: GE |
| Flood Signs: erosion, braiding |            |                                                                                                                               |            |

### MORPHOLOGY

|                               |               |           |                                     |                                     |                                     |                                     |                                     |                               |                                        |                          |                          |                          |
|-------------------------------|---------------|-----------|-------------------------------------|-------------------------------------|-------------------------------------|-------------------------------------|-------------------------------------|-------------------------------|----------------------------------------|--------------------------|--------------------------|--------------------------|
| Bed Material:                 | Dominant: C   | Subdom: G | O1                                  | B1                                  | B2                                  | B3                                  | D1                                  | D2                            | D3                                     |                          |                          |                          |
| D95: 18.0                     | D (cm): 18.00 | Morph: CP | <input type="checkbox"/>            | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/>            | <input checked="" type="checkbox"/> | <input type="checkbox"/>      | <input type="checkbox"/>               |                          |                          |                          |
| Pattern: SI                   |               |           | C1                                  | C2                                  | C3                                  | C4                                  | C5                                  | S1                            | S2                                     | S3                       | S4                       | S5                       |
| Islands: N                    |               |           | <input checked="" type="checkbox"/> | <input type="checkbox"/>            | <input type="checkbox"/>            | <input checked="" type="checkbox"/> | <input type="checkbox"/>            | <input type="checkbox"/>      | <input type="checkbox"/>               | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| Coupling: CO                  |               |           |                                     |                                     |                                     |                                     |                                     |                               |                                        |                          |                          |                          |
| Confinement: FC               |               |           |                                     |                                     |                                     |                                     |                                     |                               |                                        |                          |                          |                          |
| FSZ: <input type="checkbox"/> |               |           | Bars:                               | N <input type="checkbox"/>          | SIDE <input type="checkbox"/>       | DIAG <input type="checkbox"/>       | MID <input type="checkbox"/>        | SPAN <input type="checkbox"/> | BR <input checked="" type="checkbox"/> |                          |                          |                          |

### FEATURES

| NID Map                                            | NID | Type | Hgt | Method | Lg | Method | Photo            | AirPhoto | UTM (Z/E/N)      | Method |
|----------------------------------------------------|-----|------|-----|--------|----|--------|------------------|----------|------------------|--------|
| 093M.028                                           | 202 | FLD  |     | HC     | 80 | HC     | R: DIG F: 848 L: | #:       | 9.655493.6125173 | GIS    |
| Comments: dewatering, accessible at high flow only |     |      |     |        |    |        |                  |          |                  |        |
| NID Map                                            | NID | Type | Hgt | Method | Lg | Method | Photo            | AirPhoto | UTM (Z/E/N)      | Method |
| 093M.028                                           | 201 | C    | 9.0 | HC     | 53 | HC     | R: DIG F: 847 L: | #:       | 9.655525.6125233 | GIS    |
| Comments: impassable to fish; end of fish use      |     |      |     |        |    |        |                  |          |                  |        |

### HABITAT QUALITY



# FDIS Site Card

## 2006 RFFHI Babine L. Tributaries - Re-sampling

Watershed Code: 480-460300-00000-00000-0000-000-000-000-000-000-000

Reach # 1.1 ILP Map # 093M.028 ILP # 10347 Site 116

| Name               |     |                                                  |        | Comments                                                                                    |          |                   |
|--------------------|-----|--------------------------------------------------|--------|---------------------------------------------------------------------------------------------|----------|-------------------|
| Spawning Habitat   |     |                                                  |        | None - suitable gravels d/s of DW.                                                          |          |                   |
| Rearing Habitat    |     |                                                  |        | Good habitat d/s of DW section, abundant cover; almost no cover d/s of cascade obstruction. |          |                   |
| OverWinter Habitat |     |                                                  |        | None - steep, dry, shallow.                                                                 |          |                   |
| PHOTOS             |     |                                                  |        |                                                                                             |          |                   |
| Photo              |     |                                                  | Foc Lg | Dir                                                                                         | Comments |                   |
| R:                 | DIG | F:                                               | 847    | STD                                                                                         | U        | cascade           |
| R:                 | DIG | F:                                               | 848    | STD                                                                                         | U        | dewatered channel |
| R:                 | DIG | F:                                               | 849    | STD                                                                                         | D        | tape for scale    |
| WILDLIFE           |     |                                                  |        |                                                                                             |          |                   |
| Group              |     | Observations                                     |        |                                                                                             |          |                   |
| MAM                |     | wallowing hole - located at UTM 9.655439.6125002 |        |                                                                                             |          |                   |
| COMMENTS           |     |                                                  |        |                                                                                             |          |                   |
| Section            |     | Comments                                         |        |                                                                                             |          |                   |
| SITE CARD          |     | S3                                               |        |                                                                                             |          |                   |
| SITE CARD          |     | stream accessible to the cascade obstruction     |        |                                                                                             |          |                   |



## 2006 RFFHI Babine L. Tributaries - Re-sampling

Watershed Code: 480-460300-00000-00000-0000-0000-000-000-000-000-000-000-000

| Reach # | ILP Map # | ILP # |
|---------|-----------|-------|
| 1.1     | 093M.028  | 10347 |

| WATERBODY                                                   |          |       |                          |                                                          |                     |            |          |                |           |                      |            |                 |  |          |             |         |                                    |  |
|-------------------------------------------------------------|----------|-------|--------------------------|----------------------------------------------------------|---------------------|------------|----------|----------------|-----------|----------------------|------------|-----------------|--|----------|-------------|---------|------------------------------------|--|
| Gazetted Name:                                              |          |       |                          |                                                          |                     |            |          |                |           | Local: Unnamed Creek |            |                 |  |          |             |         |                                    |  |
| Project Code: 480-000000-00000-00000-0000-000-000-000-000-0 |          |       |                          |                                                          |                     |            |          |                |           |                      |            |                 |  |          |             |         |                                    |  |
| WS Code: 480-460300-00000-00000-0000-0000-000-000-000-000   |          |       |                          |                                                          |                     |            |          |                |           |                      |            |                 |  |          |             |         |                                    |  |
| Waterbody ID:                                               |          |       |                          |                                                          | ILP Map #: 093M.028 |            |          |                |           | ILP #:               |            | 10347           |  | Reach #: |             | 1.1 -   |                                    |  |
| Project ID: 06-BABL-00015953-2006                           |          |       |                          |                                                          |                     |            |          |                |           | Lake/Stream: S       |            | Lake From Date: |  |          |             |         |                                    |  |
| Fish Permit #: SM06-24176                                   |          |       |                          | Date: 2006/07/30                                         |                     |            |          | To: 2006/07/30 |           |                      |            | Agency: C016    |  |          | Crew: MJ/JL |         | Resample: <input type="checkbox"/> |  |
| SITE / METHOD                                               |          |       |                          |                                                          |                     |            |          |                |           |                      |            |                 |  |          |             |         |                                    |  |
| Site#                                                       | NID Map  | NID # | UTM:Zone/East/North/Mthd |                                                          |                     |            | MTD/NO   |                | Temp      | Cond                 | Turbid     | Comment         |  |          |             |         |                                    |  |
| 116                                                         | 093M.028 | 2     | 9                        | 655470                                                   | 6125183             | GP3        | EF       | 2              | 11        | 80                   | C          |                 |  |          |             |         |                                    |  |
| 116                                                         | 093M.028 | 2     | 9                        | 655470                                                   | 6125183             | GP3        | EF       | 1              | 11        | 80                   | C          |                 |  |          |             |         |                                    |  |
| A. GEAR SETTINGS                                            |          |       |                          |                                                          |                     |            |          |                |           |                      |            |                 |  |          |             |         |                                    |  |
| Site#                                                       | MTD/NO   |       | H/P                      | Date In                                                  | Time In             | Date Out   | Time Out | Comment        |           |                      |            |                 |  |          |             |         |                                    |  |
| 116                                                         | EF       | 1     | 1                        | 2006/07/30                                               | 11:05               | 2006/07/30 | 11:06    |                |           |                      |            |                 |  |          |             |         |                                    |  |
| 116                                                         | EF       | 2     | 1                        | 2006/07/30                                               | 11:30               | 2006/07/30 | 11:35    |                |           |                      |            |                 |  |          |             |         |                                    |  |
| C. ELECTROFISHER SPECIFICATIONS                             |          |       |                          |                                                          |                     |            |          |                |           |                      |            |                 |  |          |             |         |                                    |  |
| Site#                                                       | MTD/NO   |       | H/P                      | Encl                                                     | Sec                 | Length     | Width    | Voltage        | Frequency | Pulse                | Make       | Model           |  |          |             |         |                                    |  |
| 116                                                         | EF       | 1     | 1                        | O                                                        | 28                  | 2.0        | 1.5      | 600            | 80        | 6                    | SMITH-ROOT | 12 B            |  |          |             |         |                                    |  |
| 116                                                         | EF       | 2     | 1                        | O                                                        | 15                  | 3.0        | 1.5      | 600            | 80        | 6                    | SMITH-ROOT | 12 B            |  |          |             |         |                                    |  |
| FISH SUMMARY                                                |          |       |                          |                                                          |                     |            |          |                |           |                      |            |                 |  |          |             |         |                                    |  |
| Site#                                                       | MTD/NO   |       | H/P                      | Species                                                  | Stage               | Age        | Total #  | Lgth (Min/Max) | FishAct   | Comment              |            |                 |  |          |             |         |                                    |  |
| 116                                                         | EF       | 1     | 1                        | NFC                                                      |                     |            | 0        |                |           |                      |            |                 |  |          |             |         |                                    |  |
| 116                                                         | EF       | 2     | 1                        | RB                                                       | J                   |            | 7        | 50             | 114       | R                    |            |                 |  |          |             |         |                                    |  |
| INDIVIDUAL FISH DATA                                        |          |       |                          |                                                          |                     |            |          |                |           |                      |            |                 |  |          |             |         |                                    |  |
| Site#                                                       | MTD/NO   | H/P   | Species                  | Length                                                   | Weight              | Sex        | Mat      | Age            |           |                      | Vch#       | Genetic         |  | Roll #   | Frame#      | Comment |                                    |  |
|                                                             |          |       |                          |                                                          |                     |            |          | Str/Smpl#      | Age       |                      |            | Str/Smpl#       |  |          |             |         |                                    |  |
| 116                                                         | EF       | 2     | 1                        | RB                                                       | 69                  |            | U        | U              |           |                      |            |                 |  |          |             |         |                                    |  |
| 116                                                         | EF       | 2     | 1                        | RB                                                       | 114                 |            | U        | U              |           |                      |            |                 |  |          |             |         |                                    |  |
| 116                                                         | EF       | 2     | 1                        | RB                                                       | 50                  |            | U        | U              |           |                      |            |                 |  |          |             |         |                                    |  |
| 116                                                         | EF       | 2     | 1                        | RB                                                       | 53                  |            | U        | U              |           |                      |            |                 |  |          |             |         |                                    |  |
| 116                                                         | EF       | 2     | 1                        | RB                                                       | 77                  |            | U        | U              |           |                      |            |                 |  |          |             |         |                                    |  |
| 116                                                         | EF       | 2     | 1                        | RB                                                       | 101                 |            | U        | U              |           |                      |            |                 |  |          |             |         |                                    |  |
| 116                                                         | EF       | 2     | 1                        | RB                                                       | 94                  |            | U        | U              |           |                      |            |                 |  |          |             |         |                                    |  |
| COMMENTS                                                    |          |       |                          |                                                          |                     |            |          |                |           |                      |            |                 |  |          |             |         |                                    |  |
| Section                                                     |          |       |                          | Comments                                                 |                     |            |          |                |           |                      |            |                 |  |          |             |         |                                    |  |
| WATERBODY                                                   |          |       |                          | sampled below dry section at UTM 9.655426.6125078        |                     |            |          |                |           |                      |            |                 |  |          |             |         |                                    |  |
| WATERBODY                                                   |          |       |                          | only 2 pools with water below cascade, section dewatered |                     |            |          |                |           |                      |            |                 |  |          |             |         |                                    |  |

FDIS Reach Card

2006 RFFHI Babine L. Tributaries - Re-sampling

|                                                                      |  |                |                       |                |
|----------------------------------------------------------------------|--|----------------|-----------------------|----------------|
| Watershed Code: 480-460300-00000-00000-0000-0000-000-000-000-000-000 |  | Reach #<br>1.1 | ILP Map #<br>093M.028 | ILP #<br>10347 |
|----------------------------------------------------------------------|--|----------------|-----------------------|----------------|

|                                                                              |  |                                     |  |  |
|------------------------------------------------------------------------------|--|-------------------------------------|--|--|
| PROJECT                                                                      |  |                                     |  |  |
| Project Name: Babine Lake Face Unit Re-sampling - 2006                       |  |                                     |  |  |
| Stream Name (gaz.): BABINE RIVER                                             |  | Project Code: 06-BABL-00015953-2006 |  |  |
| Project Watershed Code: 480-000000-00000-00000-0000-0000-000-000-000-000-000 |  |                                     |  |  |

|                                                                            |                      |                                                  |                             |              |
|----------------------------------------------------------------------------|----------------------|--------------------------------------------------|-----------------------------|--------------|
| WATERSHED                                                                  |                      |                                                  |                             |              |
| Reach Watershed Code: 480-460300-00000-00000-0000-0000-000-000-000-000-000 |                      |                                                  |                             |              |
| ILP Map #: 093M.028                                                        | ILP #: 10347         | Reach #: 1.1                                     | NID Map #: 093M.028         | NID #: 20004 |
| Air Photos                                                                 | Names                |                                                  | UTM(Zone/East/North/Method) |              |
| LINE:                                                                      | Gaz.:                | 9.655526.6125235   GIS                           |                             |              |
| #:                                                                         | Local: Unnamed Creek | Sample Type: B Wetland: <input type="checkbox"/> |                             |              |

|                  |  |              |             |  |
|------------------|--|--------------|-------------|--|
| SURVEY INFO      |  |              |             |  |
| Date: 2006/06/20 |  | Agency: C016 | Crew: MJ/JL |  |

|                                                     |                |                                                                                                                                                                                                |                                                                                                                                                                                                     |                          |                          |                          |                          |                          |                          |                          |                          |                          |  |  |
|-----------------------------------------------------|----------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|--|--|
| ATTRIBUTES                                          |                |                                                                                                                                                                                                |                                                                                                                                                                                                     |                          |                          |                          |                          |                          |                          |                          |                          |                          |  |  |
| Length (km): .54                                    | Gradient: 6.67 | Setting: VW                                                                                                                                                                                    | DISTURBANCE INDICATORS                                                                                                                                                                              |                          |                          |                          |                          |                          |                          |                          |                          |                          |  |  |
| DS Elev.: 770                                       | Order: 3       | Open water: A                                                                                                                                                                                  | <input type="checkbox"/> O1 <input type="checkbox"/> B1 <input type="checkbox"/> B2 <input type="checkbox"/> B3 <input type="checkbox"/> D1 <input type="checkbox"/> D2 <input type="checkbox"/> D3 |                          |                          |                          |                          |                          |                          |                          |                          |                          |  |  |
| US Elev: 806                                        | Magnitude: 5   | Confinement: CO                                                                                                                                                                                | C1                                                                                                                                                                                                  | C2                       | C3                       | C4                       | C5                       | S1                       | S2                       | S3                       | S4                       | S5                       |  |  |
|                                                     | BGC Zone: SBS  | Coupling: CO                                                                                                                                                                                   | <input type="checkbox"/>                                                                                                                                                                            | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |  |  |
| Valley Flat: N                                      | C/D:           | Islands: N                                                                                                                                                                                     |                                                                                                                                                                                                     |                          |                          |                          |                          |                          |                          |                          |                          |                          |  |  |
| Active Floodplain Visible: <input type="checkbox"/> | Est. Width:    | Bars: <input checked="" type="checkbox"/> N <input type="checkbox"/> SIDE <input type="checkbox"/> DIAG <input type="checkbox"/> MID <input type="checkbox"/> SPAN <input type="checkbox"/> BR |                                                                                                                                                                                                     |                          |                          |                          |                          |                          |                          |                          |                          |                          |  |  |
| Channel Pattern: SI                                 |                | Mass Movement: M                                                                                                                                                                               |                                                                                                                                                                                                     |                          |                          |                          | Exposed/Eroded: NS       |                          |                          |                          |                          |                          |  |  |
|                                                     |                | Riparian Veg.: M                                                                                                                                                                               |                                                                                                                                                                                                     |                          |                          |                          | Landuse: NO              |                          |                          |                          |                          |                          |  |  |

|          |          |      |
|----------|----------|------|
| MAPS     |          |      |
| Map Type | Map #    | Year |
| TRIM     | 093M.028 | 2006 |

# FDIS Site Card

## 2006 RFFHI Babine L. Tributaries - Re-sampling

Watershed Code: 480-579300-00000-00000-0000-000-000-000-000-000-000

Reach # 1.1 ILP Map # 093M.009 ILP # 10024 Site 117

| PROJECT                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                                                                         |                                                                         |                                                                         |                                                                                                                                                                                                                        |                                                                                                                                                                                                                      |                                                                                                    |                                                                            |                                                                             |       |                                                                                                                               |       |      |     |       |       |         |       |       |       |       |       |       |       |             |                                                                         |                                                                         |                                                                         |                                                                            |                                                                         |                                                                         |                                                                            |                                                                                                                                                                  |  |  |  |  |      |                   |    |      |  |  |  |  |  |  |  |  |  |      |                 |    |      |  |  |  |  |  |  |  |  |  |      |                                                                                                                                                                                                                                                                                                                             |  |  |  |           |     |     |           |      |      |    |            |      |      |    |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------|-------------------------------------------------------------------------|-------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------|-----------------------------------------------------------------------------|-------|-------------------------------------------------------------------------------------------------------------------------------|-------|------|-----|-------|-------|---------|-------|-------|-------|-------|-------|-------|-------|-------------|-------------------------------------------------------------------------|-------------------------------------------------------------------------|-------------------------------------------------------------------------|----------------------------------------------------------------------------|-------------------------------------------------------------------------|-------------------------------------------------------------------------|----------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|--|--|--|------|-------------------|----|------|--|--|--|--|--|--|--|--|--|------|-----------------|----|------|--|--|--|--|--|--|--|--|--|------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|--|--|-----------|-----|-----|-----------|------|------|----|------------|------|------|----|
| <div style="display: flex; justify-content: space-between;"> <div> Project Name: Babine Lake Face Unit Re-sampling - 2006<br/> Stream Name (gaz.): BABINE RIVER<br/> Project Watershed Code: 480-000000-00000-00000-0000-000-000-000-000-000-000 </div> <div> Project Code: 06-BABL-00015953-2006 </div> </div>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                                                                         |                                                                         |                                                                         |                                                                                                                                                                                                                        |                                                                                                                                                                                                                      |                                                                                                    |                                                                            |                                                                             |       |                                                                                                                               |       |      |     |       |       |         |       |       |       |       |       |       |       |             |                                                                         |                                                                         |                                                                         |                                                                            |                                                                         |                                                                         |                                                                            |                                                                                                                                                                  |  |  |  |  |      |                   |    |      |  |  |  |  |  |  |  |  |  |      |                 |    |      |  |  |  |  |  |  |  |  |  |      |                                                                                                                                                                                                                                                                                                                             |  |  |  |           |     |     |           |      |      |    |            |      |      |    |
| WATERSHED                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                                                                         |                                                                         |                                                                         |                                                                                                                                                                                                                        |                                                                                                                                                                                                                      |                                                                                                    |                                                                            |                                                                             |       |                                                                                                                               |       |      |     |       |       |         |       |       |       |       |       |       |       |             |                                                                         |                                                                         |                                                                         |                                                                            |                                                                         |                                                                         |                                                                            |                                                                                                                                                                  |  |  |  |  |      |                   |    |      |  |  |  |  |  |  |  |  |  |      |                 |    |      |  |  |  |  |  |  |  |  |  |      |                                                                                                                                                                                                                                                                                                                             |  |  |  |           |     |     |           |      |      |    |            |      |      |    |
| Gazetted Name: _____ Local Name: Unnamed Creek<br>Watershed Code: 480-579300-00000-00000-0000-000-000-000-000-000-000-000<br>ILP Map#: 093M.009 ILP #: 10024 NID Map #: 093M.009 NID #: 17 Reach #: 1.1 Site #: 117<br>Field UTM (Z.E.N): 9.668149.6103776 Method: GP3 Site Lg: 200 Method: GE Access: B<br>GIS UTM (Z.E.N): 9.668154.6103779 Ref. Name: _____<br>Date: 2006/07/03 Time: 09:40 Agency: C016 Crew: MJ/JL Fish Crd?: <input checked="" type="checkbox"/> Incomplete: <input type="checkbox"/>                                                                                                                                                                                                                                                                                                                                                                                                                                             |                                                                         |                                                                         |                                                                         |                                                                                                                                                                                                                        |                                                                                                                                                                                                                      |                                                                                                    |                                                                            |                                                                             |       |                                                                                                                               |       |      |     |       |       |         |       |       |       |       |       |       |       |             |                                                                         |                                                                         |                                                                         |                                                                            |                                                                         |                                                                         |                                                                            |                                                                                                                                                                  |  |  |  |  |      |                   |    |      |  |  |  |  |  |  |  |  |  |      |                 |    |      |  |  |  |  |  |  |  |  |  |      |                                                                                                                                                                                                                                                                                                                             |  |  |  |           |     |     |           |      |      |    |            |      |      |    |
| CHANNEL                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                                                                         |                                                                         |                                                                         |                                                                                                                                                                                                                        |                                                                                                                                                                                                                      |                                                                                                    |                                                                            |                                                                             |       |                                                                                                                               |       |      |     |       |       |         |       |       |       |       |       |       |       |             |                                                                         |                                                                         |                                                                         |                                                                            |                                                                         |                                                                         |                                                                            |                                                                                                                                                                  |  |  |  |  |      |                   |    |      |  |  |  |  |  |  |  |  |  |      |                 |    |      |  |  |  |  |  |  |  |  |  |      |                                                                                                                                                                                                                                                                                                                             |  |  |  |           |     |     |           |      |      |    |            |      |      |    |
| <table border="1" style="width:100%; border-collapse: collapse;"> <thead> <tr> <th></th> <th>Mtd</th> <th>width</th> <th>width</th> <th>width</th> <th>width</th> <th>width</th> <th>width</th> <th>width</th> <th>width</th> <th>width</th> <th>width</th> <th>Avg</th> </tr> </thead> <tbody> <tr> <td>Channel Width (m):</td> <td>GE</td> <td>3.50</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>3.50</td> </tr> <tr> <td>Wetted Width (m):</td> <td>GE</td> <td>1.50</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>1.50</td> </tr> <tr> <td>Pool Depth (m):</td> <td>GE</td> <td>0.70</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>0.70</td> </tr> </tbody> </table>                                                                                                                |                                                                         |                                                                         |                                                                         |                                                                                                                                                                                                                        |                                                                                                                                                                                                                      |                                                                                                    |                                                                            |                                                                             |       |                                                                                                                               |       |      | Mtd | width | width | width   | width | width | width | width | width | width | width | Avg         | Channel Width (m):                                                      | GE                                                                      | 3.50                                                                    |                                                                            |                                                                         |                                                                         |                                                                            |                                                                                                                                                                  |  |  |  |  | 3.50 | Wetted Width (m): | GE | 1.50 |  |  |  |  |  |  |  |  |  | 1.50 | Pool Depth (m): | GE | 0.70 |  |  |  |  |  |  |  |  |  | 0.70 | <table border="1" style="width:100%; border-collapse: collapse;"> <thead> <tr> <th></th> <th>Gadient %</th> <th>Mtd</th> <th>Avg</th> </tr> </thead> <tbody> <tr> <td>Method I:</td> <td>14.0</td> <td>14.0</td> <td>AL</td> </tr> <tr> <td>Method II:</td> <td>17.0</td> <td>15.0</td> <td>AL</td> </tr> </tbody> </table> |  |  |  | Gadient % | Mtd | Avg | Method I: | 14.0 | 14.0 | AL | Method II: | 17.0 | 15.0 | AL |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | Mtd                                                                     | width                                                                   | width                                                                   | width                                                                                                                                                                                                                  | width                                                                                                                                                                                                                | width                                                                                              | width                                                                      | width                                                                       | width | width                                                                                                                         | width | Avg  |     |       |       |         |       |       |       |       |       |       |       |             |                                                                         |                                                                         |                                                                         |                                                                            |                                                                         |                                                                         |                                                                            |                                                                                                                                                                  |  |  |  |  |      |                   |    |      |  |  |  |  |  |  |  |  |  |      |                 |    |      |  |  |  |  |  |  |  |  |  |      |                                                                                                                                                                                                                                                                                                                             |  |  |  |           |     |     |           |      |      |    |            |      |      |    |
| Channel Width (m):                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | GE                                                                      | 3.50                                                                    |                                                                         |                                                                                                                                                                                                                        |                                                                                                                                                                                                                      |                                                                                                    |                                                                            |                                                                             |       |                                                                                                                               |       | 3.50 |     |       |       |         |       |       |       |       |       |       |       |             |                                                                         |                                                                         |                                                                         |                                                                            |                                                                         |                                                                         |                                                                            |                                                                                                                                                                  |  |  |  |  |      |                   |    |      |  |  |  |  |  |  |  |  |  |      |                 |    |      |  |  |  |  |  |  |  |  |  |      |                                                                                                                                                                                                                                                                                                                             |  |  |  |           |     |     |           |      |      |    |            |      |      |    |
| Wetted Width (m):                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | GE                                                                      | 1.50                                                                    |                                                                         |                                                                                                                                                                                                                        |                                                                                                                                                                                                                      |                                                                                                    |                                                                            |                                                                             |       |                                                                                                                               |       | 1.50 |     |       |       |         |       |       |       |       |       |       |       |             |                                                                         |                                                                         |                                                                         |                                                                            |                                                                         |                                                                         |                                                                            |                                                                                                                                                                  |  |  |  |  |      |                   |    |      |  |  |  |  |  |  |  |  |  |      |                 |    |      |  |  |  |  |  |  |  |  |  |      |                                                                                                                                                                                                                                                                                                                             |  |  |  |           |     |     |           |      |      |    |            |      |      |    |
| Pool Depth (m):                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | GE                                                                      | 0.70                                                                    |                                                                         |                                                                                                                                                                                                                        |                                                                                                                                                                                                                      |                                                                                                    |                                                                            |                                                                             |       |                                                                                                                               |       | 0.70 |     |       |       |         |       |       |       |       |       |       |       |             |                                                                         |                                                                         |                                                                         |                                                                            |                                                                         |                                                                         |                                                                            |                                                                                                                                                                  |  |  |  |  |      |                   |    |      |  |  |  |  |  |  |  |  |  |      |                 |    |      |  |  |  |  |  |  |  |  |  |      |                                                                                                                                                                                                                                                                                                                             |  |  |  |           |     |     |           |      |      |    |            |      |      |    |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | Gadient %                                                               | Mtd                                                                     | Avg                                                                     |                                                                                                                                                                                                                        |                                                                                                                                                                                                                      |                                                                                                    |                                                                            |                                                                             |       |                                                                                                                               |       |      |     |       |       |         |       |       |       |       |       |       |       |             |                                                                         |                                                                         |                                                                         |                                                                            |                                                                         |                                                                         |                                                                            |                                                                                                                                                                  |  |  |  |  |      |                   |    |      |  |  |  |  |  |  |  |  |  |      |                 |    |      |  |  |  |  |  |  |  |  |  |      |                                                                                                                                                                                                                                                                                                                             |  |  |  |           |     |     |           |      |      |    |            |      |      |    |
| Method I:                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | 14.0                                                                    | 14.0                                                                    | AL                                                                      |                                                                                                                                                                                                                        |                                                                                                                                                                                                                      |                                                                                                    |                                                                            |                                                                             |       |                                                                                                                               |       |      |     |       |       |         |       |       |       |       |       |       |       |             |                                                                         |                                                                         |                                                                         |                                                                            |                                                                         |                                                                         |                                                                            |                                                                                                                                                                  |  |  |  |  |      |                   |    |      |  |  |  |  |  |  |  |  |  |      |                 |    |      |  |  |  |  |  |  |  |  |  |      |                                                                                                                                                                                                                                                                                                                             |  |  |  |           |     |     |           |      |      |    |            |      |      |    |
| Method II:                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | 17.0                                                                    | 15.0                                                                    | AL                                                                      |                                                                                                                                                                                                                        |                                                                                                                                                                                                                      |                                                                                                    |                                                                            |                                                                             |       |                                                                                                                               |       |      |     |       |       |         |       |       |       |       |       |       |       |             |                                                                         |                                                                         |                                                                         |                                                                            |                                                                         |                                                                         |                                                                            |                                                                                                                                                                  |  |  |  |  |      |                   |    |      |  |  |  |  |  |  |  |  |  |      |                 |    |      |  |  |  |  |  |  |  |  |  |      |                                                                                                                                                                                                                                                                                                                             |  |  |  |           |     |     |           |      |      |    |            |      |      |    |
| Wb Depth: .6                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                                                                         | Avg: 0.60                                                               |                                                                         | Method: GE                                                                                                                                                                                                             |                                                                                                                                                                                                                      | Stage: L <input checked="" type="checkbox"/> M <input type="checkbox"/> H <input type="checkbox"/> |                                                                            | No Vis.Ch.: <input type="checkbox"/> Intermittent: <input type="checkbox"/> |       | Dw: <input type="checkbox"/> Tribs.: <input type="checkbox"/>                                                                 |       |      |     |       |       |         |       |       |       |       |       |       |       |             |                                                                         |                                                                         |                                                                         |                                                                            |                                                                         |                                                                         |                                                                            |                                                                                                                                                                  |  |  |  |  |      |                   |    |      |  |  |  |  |  |  |  |  |  |      |                 |    |      |  |  |  |  |  |  |  |  |  |      |                                                                                                                                                                                                                                                                                                                             |  |  |  |           |     |     |           |      |      |    |            |      |      |    |
| COVER Total: M                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                                                                         |                                                                         |                                                                         |                                                                                                                                                                                                                        |                                                                                                                                                                                                                      |                                                                                                    |                                                                            |                                                                             |       |                                                                                                                               |       |      |     |       |       |         |       |       |       |       |       |       |       |             |                                                                         |                                                                         |                                                                         |                                                                            |                                                                         |                                                                         |                                                                            |                                                                                                                                                                  |  |  |  |  |      |                   |    |      |  |  |  |  |  |  |  |  |  |      |                 |    |      |  |  |  |  |  |  |  |  |  |      |                                                                                                                                                                                                                                                                                                                             |  |  |  |           |     |     |           |      |      |    |            |      |      |    |
| <table border="1" style="width:100%; border-collapse: collapse;"> <thead> <tr> <th>Type:</th> <th>SWD</th> <th>LWD</th> <th>B</th> <th>U</th> <th>DP</th> <th>OV</th> <th>IV</th> </tr> </thead> <tbody> <tr> <td>Amount:</td> <td>T</td> <td>S</td> <td>S</td> <td>N</td> <td>D</td> <td>T</td> <td>N</td> </tr> <tr> <td>Loc: P/S/O:</td> <td><input checked="" type="checkbox"/><input checked="" type="checkbox"/></td> <td><input checked="" type="checkbox"/><input checked="" type="checkbox"/></td> <td><input checked="" type="checkbox"/><input checked="" type="checkbox"/></td> <td><input type="checkbox"/><input type="checkbox"/><input type="checkbox"/></td> <td><input checked="" type="checkbox"/><input checked="" type="checkbox"/></td> <td><input checked="" type="checkbox"/><input checked="" type="checkbox"/></td> <td><input type="checkbox"/><input type="checkbox"/><input type="checkbox"/></td> </tr> </tbody> </table> |                                                                         |                                                                         |                                                                         |                                                                                                                                                                                                                        |                                                                                                                                                                                                                      |                                                                                                    |                                                                            | Type:                                                                       | SWD   | LWD                                                                                                                           | B     | U    | DP  | OV    | IV    | Amount: | T     | S     | S     | N     | D     | T     | N     | Loc: P/S/O: | <input checked="" type="checkbox"/> <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> <input checked="" type="checkbox"/> | <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> | <input checked="" type="checkbox"/> <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> <input checked="" type="checkbox"/> | <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> | CROWN CLOSURE<br>1 1-20%<br>INSTREAM VEG: N <input checked="" type="checkbox"/> A <input type="checkbox"/> M <input type="checkbox"/> V <input type="checkbox"/> |  |  |  |  |      |                   |    |      |  |  |  |  |  |  |  |  |  |      |                 |    |      |  |  |  |  |  |  |  |  |  |      |                                                                                                                                                                                                                                                                                                                             |  |  |  |           |     |     |           |      |      |    |            |      |      |    |
| Type:                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | SWD                                                                     | LWD                                                                     | B                                                                       | U                                                                                                                                                                                                                      | DP                                                                                                                                                                                                                   | OV                                                                                                 | IV                                                                         |                                                                             |       |                                                                                                                               |       |      |     |       |       |         |       |       |       |       |       |       |       |             |                                                                         |                                                                         |                                                                         |                                                                            |                                                                         |                                                                         |                                                                            |                                                                                                                                                                  |  |  |  |  |      |                   |    |      |  |  |  |  |  |  |  |  |  |      |                 |    |      |  |  |  |  |  |  |  |  |  |      |                                                                                                                                                                                                                                                                                                                             |  |  |  |           |     |     |           |      |      |    |            |      |      |    |
| Amount:                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | T                                                                       | S                                                                       | S                                                                       | N                                                                                                                                                                                                                      | D                                                                                                                                                                                                                    | T                                                                                                  | N                                                                          |                                                                             |       |                                                                                                                               |       |      |     |       |       |         |       |       |       |       |       |       |       |             |                                                                         |                                                                         |                                                                         |                                                                            |                                                                         |                                                                         |                                                                            |                                                                                                                                                                  |  |  |  |  |      |                   |    |      |  |  |  |  |  |  |  |  |  |      |                 |    |      |  |  |  |  |  |  |  |  |  |      |                                                                                                                                                                                                                                                                                                                             |  |  |  |           |     |     |           |      |      |    |            |      |      |    |
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| LWD: F                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                                                                         |                                                                         |                                                                         | DIST: C                                                                                                                                                                                                                |                                                                                                                                                                                                                      |                                                                                                    |                                                                            |                                                                             |       |                                                                                                                               |       |      |     |       |       |         |       |       |       |       |       |       |       |             |                                                                         |                                                                         |                                                                         |                                                                            |                                                                         |                                                                         |                                                                            |                                                                                                                                                                  |  |  |  |  |      |                   |    |      |  |  |  |  |  |  |  |  |  |      |                 |    |      |  |  |  |  |  |  |  |  |  |      |                                                                                                                                                                                                                                                                                                                             |  |  |  |           |     |     |           |      |      |    |            |      |      |    |
| LB SHP: V                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                                                                         |                                                                         |                                                                         | RB SHP: V                                                                                                                                                                                                              |                                                                                                                                                                                                                      |                                                                                                    |                                                                            |                                                                             |       |                                                                                                                               |       |      |     |       |       |         |       |       |       |       |       |       |       |             |                                                                         |                                                                         |                                                                         |                                                                            |                                                                         |                                                                         |                                                                            |                                                                                                                                                                  |  |  |  |  |      |                   |    |      |  |  |  |  |  |  |  |  |  |      |                 |    |      |  |  |  |  |  |  |  |  |  |      |                                                                                                                                                                                                                                                                                                                             |  |  |  |           |     |     |           |      |      |    |            |      |      |    |
| Texture: F <input checked="" type="checkbox"/> G <input checked="" type="checkbox"/> C <input checked="" type="checkbox"/> B <input checked="" type="checkbox"/> R <input type="checkbox"/> A <input type="checkbox"/>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                                                                         |                                                                         |                                                                         | Texture: F <input checked="" type="checkbox"/> G <input checked="" type="checkbox"/> C <input checked="" type="checkbox"/> B <input checked="" type="checkbox"/> R <input type="checkbox"/> A <input type="checkbox"/> |                                                                                                                                                                                                                      |                                                                                                    |                                                                            |                                                                             |       |                                                                                                                               |       |      |     |       |       |         |       |       |       |       |       |       |       |             |                                                                         |                                                                         |                                                                         |                                                                            |                                                                         |                                                                         |                                                                            |                                                                                                                                                                  |  |  |  |  |      |                   |    |      |  |  |  |  |  |  |  |  |  |      |                 |    |      |  |  |  |  |  |  |  |  |  |      |                                                                                                                                                                                                                                                                                                                             |  |  |  |           |     |     |           |      |      |    |            |      |      |    |
| RIP: C                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                                                                         |                                                                         |                                                                         | RIP: C                                                                                                                                                                                                                 |                                                                                                                                                                                                                      |                                                                                                    |                                                                            |                                                                             |       |                                                                                                                               |       |      |     |       |       |         |       |       |       |       |       |       |       |             |                                                                         |                                                                         |                                                                         |                                                                            |                                                                         |                                                                         |                                                                            |                                                                                                                                                                  |  |  |  |  |      |                   |    |      |  |  |  |  |  |  |  |  |  |      |                 |    |      |  |  |  |  |  |  |  |  |  |      |                                                                                                                                                                                                                                                                                                                             |  |  |  |           |     |     |           |      |      |    |            |      |      |    |
| STG: MF                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                                                                         |                                                                         |                                                                         | STG: MF                                                                                                                                                                                                                |                                                                                                                                                                                                                      |                                                                                                    |                                                                            |                                                                             |       |                                                                                                                               |       |      |     |       |       |         |       |       |       |       |       |       |       |             |                                                                         |                                                                         |                                                                         |                                                                            |                                                                         |                                                                         |                                                                            |                                                                                                                                                                  |  |  |  |  |      |                   |    |      |  |  |  |  |  |  |  |  |  |      |                 |    |      |  |  |  |  |  |  |  |  |  |      |                                                                                                                                                                                                                                                                                                                             |  |  |  |           |     |     |           |      |      |    |            |      |      |    |
| WATER                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                                                                         |                                                                         |                                                                         |                                                                                                                                                                                                                        |                                                                                                                                                                                                                      |                                                                                                    |                                                                            |                                                                             |       |                                                                                                                               |       |      |     |       |       |         |       |       |       |       |       |       |       |             |                                                                         |                                                                         |                                                                         |                                                                            |                                                                         |                                                                         |                                                                            |                                                                                                                                                                  |  |  |  |  |      |                   |    |      |  |  |  |  |  |  |  |  |  |      |                 |    |      |  |  |  |  |  |  |  |  |  |      |                                                                                                                                                                                                                                                                                                                             |  |  |  |           |     |     |           |      |      |    |            |      |      |    |
| EMS:                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                                                                         |                                                                         |                                                                         |                                                                                                                                                                                                                        | Method: T3                                                                                                                                                                                                           |                                                                                                    |                                                                            |                                                                             |       | Req #:                                                                                                                        |       |      |     |       |       |         |       |       |       |       |       |       |       |             |                                                                         |                                                                         |                                                                         |                                                                            |                                                                         |                                                                         |                                                                            |                                                                                                                                                                  |  |  |  |  |      |                   |    |      |  |  |  |  |  |  |  |  |  |      |                 |    |      |  |  |  |  |  |  |  |  |  |      |                                                                                                                                                                                                                                                                                                                             |  |  |  |           |     |     |           |      |      |    |            |      |      |    |
| Temp: 9                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                                                                         |                                                                         |                                                                         |                                                                                                                                                                                                                        | Method: P4                                                                                                                                                                                                           |                                                                                                    |                                                                            |                                                                             |       | Cond.: 110                                                                                                                    |       |      |     |       |       |         |       |       |       |       |       |       |       |             |                                                                         |                                                                         |                                                                         |                                                                            |                                                                         |                                                                         |                                                                            |                                                                                                                                                                  |  |  |  |  |      |                   |    |      |  |  |  |  |  |  |  |  |  |      |                 |    |      |  |  |  |  |  |  |  |  |  |      |                                                                                                                                                                                                                                                                                                                             |  |  |  |           |     |     |           |      |      |    |            |      |      |    |
| pH: 7.0                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                                                                         |                                                                         |                                                                         |                                                                                                                                                                                                                        | Method: GE                                                                                                                                                                                                           |                                                                                                    |                                                                            |                                                                             |       | Turb.: T <input type="checkbox"/> M <input type="checkbox"/> L <input type="checkbox"/> C <input checked="" type="checkbox"/> |       |      |     |       |       |         |       |       |       |       |       |       |       |             |                                                                         |                                                                         |                                                                         |                                                                            |                                                                         |                                                                         |                                                                            |                                                                                                                                                                  |  |  |  |  |      |                   |    |      |  |  |  |  |  |  |  |  |  |      |                 |    |      |  |  |  |  |  |  |  |  |  |      |                                                                                                                                                                                                                                                                                                                             |  |  |  |           |     |     |           |      |      |    |            |      |      |    |
| Flood Signs: small XW, multichann                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                                                                         |                                                                         |                                                                         |                                                                                                                                                                                                                        |                                                                                                                                                                                                                      |                                                                                                    |                                                                            |                                                                             |       | Method: S4                                                                                                                    |       |      |     |       |       |         |       |       |       |       |       |       |       |             |                                                                         |                                                                         |                                                                         |                                                                            |                                                                         |                                                                         |                                                                            |                                                                                                                                                                  |  |  |  |  |      |                   |    |      |  |  |  |  |  |  |  |  |  |      |                 |    |      |  |  |  |  |  |  |  |  |  |      |                                                                                                                                                                                                                                                                                                                             |  |  |  |           |     |     |           |      |      |    |            |      |      |    |
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| MORPHOLOGY                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                                                                         |                                                                         |                                                                         |                                                                                                                                                                                                                        |                                                                                                                                                                                                                      |                                                                                                    |                                                                            |                                                                             |       |                                                                                                                               |       |      |     |       |       |         |       |       |       |       |       |       |       |             |                                                                         |                                                                         |                                                                         |                                                                            |                                                                         |                                                                         |                                                                            |                                                                                                                                                                  |  |  |  |  |      |                   |    |      |  |  |  |  |  |  |  |  |  |      |                 |    |      |  |  |  |  |  |  |  |  |  |      |                                                                                                                                                                                                                                                                                                                             |  |  |  |           |     |     |           |      |      |    |            |      |      |    |
| Bed Material: Dominant: C Subdom: G                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                                                                         |                                                                         |                                                                         |                                                                                                                                                                                                                        | O1 B1 B2 B3 D1 D2 D3                                                                                                                                                                                                 |                                                                                                    |                                                                            |                                                                             |       |                                                                                                                               |       |      |     |       |       |         |       |       |       |       |       |       |       |             |                                                                         |                                                                         |                                                                         |                                                                            |                                                                         |                                                                         |                                                                            |                                                                                                                                                                  |  |  |  |  |      |                   |    |      |  |  |  |  |  |  |  |  |  |      |                 |    |      |  |  |  |  |  |  |  |  |  |      |                                                                                                                                                                                                                                                                                                                             |  |  |  |           |     |     |           |      |      |    |            |      |      |    |
| D95: 50.0 D (cm): 20.00 Morph: CP                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                                                                         |                                                                         |                                                                         |                                                                                                                                                                                                                        | DISTURBANCE INDICATORS                                                                                                                                                                                               |                                                                                                    |                                                                            |                                                                             |       |                                                                                                                               |       |      |     |       |       |         |       |       |       |       |       |       |       |             |                                                                         |                                                                         |                                                                         |                                                                            |                                                                         |                                                                         |                                                                            |                                                                                                                                                                  |  |  |  |  |      |                   |    |      |  |  |  |  |  |  |  |  |  |      |                 |    |      |  |  |  |  |  |  |  |  |  |      |                                                                                                                                                                                                                                                                                                                             |  |  |  |           |     |     |           |      |      |    |            |      |      |    |
| Pattern: SI                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                                                                         |                                                                         |                                                                         |                                                                                                                                                                                                                        | C1 C2 C3 C4 C5 S1 S2 S3 S4 S5                                                                                                                                                                                        |                                                                                                    |                                                                            |                                                                             |       |                                                                                                                               |       |      |     |       |       |         |       |       |       |       |       |       |       |             |                                                                         |                                                                         |                                                                         |                                                                            |                                                                         |                                                                         |                                                                            |                                                                                                                                                                  |  |  |  |  |      |                   |    |      |  |  |  |  |  |  |  |  |  |      |                 |    |      |  |  |  |  |  |  |  |  |  |      |                                                                                                                                                                                                                                                                                                                             |  |  |  |           |     |     |           |      |      |    |            |      |      |    |
| Islands: I                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                                                                         |                                                                         |                                                                         |                                                                                                                                                                                                                        |                                                                                                                                                                                                                      |                                                                                                    |                                                                            |                                                                             |       |                                                                                                                               |       |      |     |       |       |         |       |       |       |       |       |       |       |             |                                                                         |                                                                         |                                                                         |                                                                            |                                                                         |                                                                         |                                                                            |                                                                                                                                                                  |  |  |  |  |      |                   |    |      |  |  |  |  |  |  |  |  |  |      |                 |    |      |  |  |  |  |  |  |  |  |  |      |                                                                                                                                                                                                                                                                                                                             |  |  |  |           |     |     |           |      |      |    |            |      |      |    |
| Coupling: CO                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                                                                         |                                                                         |                                                                         |                                                                                                                                                                                                                        |                                                                                                                                                                                                                      |                                                                                                    |                                                                            |                                                                             |       |                                                                                                                               |       |      |     |       |       |         |       |       |       |       |       |       |       |             |                                                                         |                                                                         |                                                                         |                                                                            |                                                                         |                                                                         |                                                                            |                                                                                                                                                                  |  |  |  |  |      |                   |    |      |  |  |  |  |  |  |  |  |  |      |                 |    |      |  |  |  |  |  |  |  |  |  |      |                                                                                                                                                                                                                                                                                                                             |  |  |  |           |     |     |           |      |      |    |            |      |      |    |
| Confinement: CO                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                                                                         |                                                                         |                                                                         |                                                                                                                                                                                                                        |                                                                                                                                                                                                                      |                                                                                                    |                                                                            |                                                                             |       |                                                                                                                               |       |      |     |       |       |         |       |       |       |       |       |       |       |             |                                                                         |                                                                         |                                                                         |                                                                            |                                                                         |                                                                         |                                                                            |                                                                                                                                                                  |  |  |  |  |      |                   |    |      |  |  |  |  |  |  |  |  |  |      |                 |    |      |  |  |  |  |  |  |  |  |  |      |                                                                                                                                                                                                                                                                                                                             |  |  |  |           |     |     |           |      |      |    |            |      |      |    |
| FSZ: <input type="checkbox"/>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                                                                         |                                                                         |                                                                         |                                                                                                                                                                                                                        | Bars: N <input type="checkbox"/> SIDE <input checked="" type="checkbox"/> DIAG <input checked="" type="checkbox"/> MID <input checked="" type="checkbox"/> SPAN <input type="checkbox"/> BR <input type="checkbox"/> |                                                                                                    |                                                                            |                                                                             |       |                                                                                                                               |       |      |     |       |       |         |       |       |       |       |       |       |       |             |                                                                         |                                                                         |                                                                         |                                                                            |                                                                         |                                                                         |                                                                            |                                                                                                                                                                  |  |  |  |  |      |                   |    |      |  |  |  |  |  |  |  |  |  |      |                 |    |      |  |  |  |  |  |  |  |  |  |      |                                                                                                                                                                                                                                                                                                                             |  |  |  |           |     |     |           |      |      |    |            |      |      |    |
| HABITAT QUALITY                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                                                                         |                                                                         |                                                                         |                                                                                                                                                                                                                        |                                                                                                                                                                                                                      |                                                                                                    |                                                                            |                                                                             |       |                                                                                                                               |       |      |     |       |       |         |       |       |       |       |       |       |       |             |                                                                         |                                                                         |                                                                         |                                                                            |                                                                         |                                                                         |                                                                            |                                                                                                                                                                  |  |  |  |  |      |                   |    |      |  |  |  |  |  |  |  |  |  |      |                 |    |      |  |  |  |  |  |  |  |  |  |      |                                                                                                                                                                                                                                                                                                                             |  |  |  |           |     |     |           |      |      |    |            |      |      |    |
| Name                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                                                                         |                                                                         |                                                                         |                                                                                                                                                                                                                        | Comments                                                                                                                                                                                                             |                                                                                                    |                                                                            |                                                                             |       |                                                                                                                               |       |      |     |       |       |         |       |       |       |       |       |       |       |             |                                                                         |                                                                         |                                                                         |                                                                            |                                                                         |                                                                         |                                                                            |                                                                                                                                                                  |  |  |  |  |      |                   |    |      |  |  |  |  |  |  |  |  |  |      |                 |    |      |  |  |  |  |  |  |  |  |  |      |                                                                                                                                                                                                                                                                                                                             |  |  |  |           |     |     |           |      |      |    |            |      |      |    |
| Spawning Habitat                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                                                                         |                                                                         |                                                                         |                                                                                                                                                                                                                        | Fair - suitable gravel patches observed in pool crests, otherwise mixed small and large substrate                                                                                                                    |                                                                                                    |                                                                            |                                                                             |       |                                                                                                                               |       |      |     |       |       |         |       |       |       |       |       |       |       |             |                                                                         |                                                                         |                                                                         |                                                                            |                                                                         |                                                                         |                                                                            |                                                                                                                                                                  |  |  |  |  |      |                   |    |      |  |  |  |  |  |  |  |  |  |      |                 |    |      |  |  |  |  |  |  |  |  |  |      |                                                                                                                                                                                                                                                                                                                             |  |  |  |           |     |     |           |      |      |    |            |      |      |    |
| Rearing Habitat                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                                                                         |                                                                         |                                                                         |                                                                                                                                                                                                                        | Fair - habitat affected by high scour during freshets                                                                                                                                                                |                                                                                                    |                                                                            |                                                                             |       |                                                                                                                               |       |      |     |       |       |         |       |       |       |       |       |       |       |             |                                                                         |                                                                         |                                                                         |                                                                            |                                                                         |                                                                         |                                                                            |                                                                                                                                                                  |  |  |  |  |      |                   |    |      |  |  |  |  |  |  |  |  |  |      |                 |    |      |  |  |  |  |  |  |  |  |  |      |                                                                                                                                                                                                                                                                                                                             |  |  |  |           |     |     |           |      |      |    |            |      |      |    |
| OverWinter Habitat                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                                                                         |                                                                         |                                                                         |                                                                                                                                                                                                                        | Moderate - not many suitable pools                                                                                                                                                                                   |                                                                                                    |                                                                            |                                                                             |       |                                                                                                                               |       |      |     |       |       |         |       |       |       |       |       |       |       |             |                                                                         |                                                                         |                                                                         |                                                                            |                                                                         |                                                                         |                                                                            |                                                                                                                                                                  |  |  |  |  |      |                   |    |      |  |  |  |  |  |  |  |  |  |      |                 |    |      |  |  |  |  |  |  |  |  |  |      |                                                                                                                                                                                                                                                                                                                             |  |  |  |           |     |     |           |      |      |    |            |      |      |    |
| PHOTOS                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                                                                         |                                                                         |                                                                         |                                                                                                                                                                                                                        |                                                                                                                                                                                                                      |                                                                                                    |                                                                            |                                                                             |       |                                                                                                                               |       |      |     |       |       |         |       |       |       |       |       |       |       |             |                                                                         |                                                                         |                                                                         |                                                                            |                                                                         |                                                                         |                                                                            |                                                                                                                                                                  |  |  |  |  |      |                   |    |      |  |  |  |  |  |  |  |  |  |      |                 |    |      |  |  |  |  |  |  |  |  |  |      |                                                                                                                                                                                                                                                                                                                             |  |  |  |           |     |     |           |      |      |    |            |      |      |    |
| Photo                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                                                                         |                                                                         | Foc Lg                                                                  |                                                                                                                                                                                                                        | Dir                                                                                                                                                                                                                  |                                                                                                    | Comments                                                                   |                                                                             |       |                                                                                                                               |       |      |     |       |       |         |       |       |       |       |       |       |       |             |                                                                         |                                                                         |                                                                         |                                                                            |                                                                         |                                                                         |                                                                            |                                                                                                                                                                  |  |  |  |  |      |                   |    |      |  |  |  |  |  |  |  |  |  |      |                 |    |      |  |  |  |  |  |  |  |  |  |      |                                                                                                                                                                                                                                                                                                                             |  |  |  |           |     |     |           |      |      |    |            |      |      |    |
| R:                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | DIG                                                                     | F:                                                                      | 867                                                                     | STD                                                                                                                                                                                                                    | U                                                                                                                                                                                                                    | person for scale                                                                                   |                                                                            |                                                                             |       |                                                                                                                               |       |      |     |       |       |         |       |       |       |       |       |       |       |             |                                                                         |                                                                         |                                                                         |                                                                            |                                                                         |                                                                         |                                                                            |                                                                                                                                                                  |  |  |  |  |      |                   |    |      |  |  |  |  |  |  |  |  |  |      |                 |    |      |  |  |  |  |  |  |  |  |  |      |                                                                                                                                                                                                                                                                                                                             |  |  |  |           |     |     |           |      |      |    |            |      |      |    |



# FDIS Site Card

## 2006 RFFHI Babine L. Tributaries - Re-sampling

Watershed Code: 480-579300-00000-00000-0000-000-000-000-000-000-000

|         |           |       |      |
|---------|-----------|-------|------|
| Reach # | ILP Map # | ILP # | Site |
| 1.1     | 093M.009  | 10024 | 117  |

| C O M M E N T S |                                                                             |
|-----------------|-----------------------------------------------------------------------------|
| Section         | Comments                                                                    |
| MORPHOLOGY      | Reach characterized by frequent small sediment wedges and multichannels     |
| SITE CARD       | High scour limits productivity                                              |
| SITE CARD       | DV present in the system, but very scarce                                   |
| MORPHOLOGY      | Cascade/steep gradient observed by SKR not found, reach walked u/s for ~1km |
| SITE CARD       | site = UTM                                                                  |



## 2006 RFFHI Babine L. Tributaries - Re-sampling

| Reach # | ILP Map # | ILP # |
|---------|-----------|-------|
| 1.1     | 093M.009  | 10024 |

| WATERBODY                                                       |  |          |  |                  |                     |                          |                |            |        |                      |      |            |             |                |                                    |               |         |         |  |           |  |            |  |        |  |         |  |
|-----------------------------------------------------------------|--|----------|--|------------------|---------------------|--------------------------|----------------|------------|--------|----------------------|------|------------|-------------|----------------|------------------------------------|---------------|---------|---------|--|-----------|--|------------|--|--------|--|---------|--|
| Gazetted Name:                                                  |  |          |  |                  |                     |                          |                |            |        | Local: Unnamed Creek |      |            |             |                |                                    |               |         |         |  |           |  |            |  |        |  |         |  |
| Project Code: 480-000000-00000-00000-0000-000-000-000-000-000-0 |  |          |  |                  |                     |                          |                |            |        |                      |      |            |             |                |                                    |               |         |         |  |           |  |            |  |        |  |         |  |
| WS Code: 480-579300-00000-00000-0000-0000-000-000-000-000-000   |  |          |  |                  |                     |                          |                |            |        |                      |      |            |             |                |                                    |               |         |         |  |           |  |            |  |        |  |         |  |
| Waterbody ID:                                                   |  |          |  |                  | ILP Map #: 093M.009 |                          |                |            |        | ILP #:               |      | 10024      |             | Reach #: 1.1 - |                                    |               |         |         |  |           |  |            |  |        |  |         |  |
| Project ID: 06-BABL-00015953-2006                               |  |          |  |                  | Lake/Stream: S      |                          |                |            |        | Lake From Date:      |      |            |             |                |                                    |               |         |         |  |           |  |            |  |        |  |         |  |
| Fish Permit #: SM06-24176                                       |  |          |  | Date: 2006/07/03 |                     |                          | To: 2006/07/03 |            |        | Agency: C016         |      |            | Crew: MJ/JL |                | Resample: <input type="checkbox"/> |               |         |         |  |           |  |            |  |        |  |         |  |
| SITE / METHOD                                                   |  |          |  |                  |                     |                          |                |            |        |                      |      |            |             |                |                                    |               |         |         |  |           |  |            |  |        |  |         |  |
| Site#                                                           |  | NID Map  |  | NID #            |                     | UTM:Zone/East/North/Mthd |                |            | MTD/NO |                      | Temp |            | Cond        |                | Turbid                             |               | Comment |         |  |           |  |            |  |        |  |         |  |
| 117                                                             |  | 093M.009 |  | 17               |                     | 9 668038 6103776 GP3     |                |            | EF 1   |                      | 9    |            | 110         |                | C                                  |               |         |         |  |           |  |            |  |        |  |         |  |
| A. GEAR SETTINGS                                                |  |          |  |                  |                     |                          |                |            |        |                      |      |            |             |                |                                    |               |         |         |  |           |  |            |  |        |  |         |  |
| Site#                                                           |  | MTD/NO   |  | H/P              |                     | Date In                  |                | Time In    |        | Date Out             |      | Time Out   |             | Comment        |                                    |               |         |         |  |           |  |            |  |        |  |         |  |
| 117                                                             |  | EF       |  | 1                |                     | 1                        |                | 2006/07/03 |        | 08:25                |      | 2006/07/03 |             | 09:55          |                                    |               |         |         |  |           |  |            |  |        |  |         |  |
| C. ELECTROFISHER SPECIFICATIONS                                 |  |          |  |                  |                     |                          |                |            |        |                      |      |            |             |                |                                    |               |         |         |  |           |  |            |  |        |  |         |  |
| Site#                                                           |  | MTD/NO   |  | H/P              |                     | Encl                     |                | Sec        |        | Length               |      | Width      |             | Voltage        |                                    | Frequency     |         | Pulse   |  | Make      |  | Model      |  |        |  |         |  |
| 117                                                             |  | EF       |  | 1                |                     | 1                        |                | O          |        | 557                  |      | 700.0      |             | 1.5            |                                    | 400           |         | 80      |  | 6         |  | SMITH-ROOT |  | 12 B   |  |         |  |
| FISH SUMMARY                                                    |  |          |  |                  |                     |                          |                |            |        |                      |      |            |             |                |                                    |               |         |         |  |           |  |            |  |        |  |         |  |
| Site#                                                           |  | MTD/NO   |  | H/P              |                     | Species                  |                | Stage      |        | Age                  |      | Total #    |             | Lgth (Min/Max) |                                    | FishAct       |         | Comment |  |           |  |            |  |        |  |         |  |
| 117                                                             |  | EF       |  | 1                |                     | 1                        |                | DV         |        | J                    |      |            |             | 2              |                                    | 59 138        |         | R       |  |           |  |            |  |        |  |         |  |
| INDIVIDUAL FISH DATA                                            |  |          |  |                  |                     |                          |                |            |        |                      |      |            |             |                |                                    |               |         |         |  |           |  |            |  |        |  |         |  |
| Site#                                                           |  | MTD/NO   |  | H/P              |                     | Species                  |                | Length     |        | Weight               |      | Sex        |             | Mat            |                                    | Age           |         | Vch#    |  | Genetic   |  | Roll #     |  | Frame# |  | Comment |  |
|                                                                 |  |          |  |                  |                     |                          |                |            |        |                      |      |            |             |                |                                    | Str/Smpl#/Age |         |         |  | Str/Smpl# |  |            |  |        |  |         |  |
| 117                                                             |  | EF       |  | 1                |                     | 1                        |                | DV         |        | 138                  |      |            |             | U              |                                    | U             |         |         |  |           |  | DIG        |  | 866    |  |         |  |
| 117                                                             |  | EF       |  | 1                |                     | 1                        |                | DV         |        | 59                   |      |            |             | U              |                                    | U             |         |         |  |           |  | DIG        |  | 866    |  |         |  |

FDIS Reach Card

2006 RFFHI Babine L. Tributaries - Re-sampling

|                                                                      |  |                |                       |                |
|----------------------------------------------------------------------|--|----------------|-----------------------|----------------|
| Watershed Code: 480-579300-00000-00000-0000-0000-000-000-000-000-000 |  | Reach #<br>1.1 | ILP Map #<br>093M.009 | ILP #<br>10024 |
|----------------------------------------------------------------------|--|----------------|-----------------------|----------------|

|                                                                              |  |                                     |  |  |
|------------------------------------------------------------------------------|--|-------------------------------------|--|--|
| PROJECT                                                                      |  |                                     |  |  |
| Project Name: Babine Lake Face Unit Re-sampling - 2006                       |  |                                     |  |  |
| Stream Name (gaz.): BABINE RIVER                                             |  | Project Code: 06-BABL-00015953-2006 |  |  |
| Project Watershed Code: 480-000000-00000-00000-0000-0000-000-000-000-000-000 |  |                                     |  |  |

|                                                                            |                      |                  |                             |                                   |
|----------------------------------------------------------------------------|----------------------|------------------|-----------------------------|-----------------------------------|
| WATERSHED                                                                  |                      |                  |                             |                                   |
| Reach Watershed Code: 480-579300-00000-00000-0000-0000-000-000-000-000-000 |                      |                  |                             |                                   |
| ILP Map #: 093M.009                                                        | ILP #: 10024         | Reach #: 1.1     | NID Map #: 093M.009         | NID #: 20026                      |
| Air Photos                                                                 | Names                |                  | UTM(Zone/East/North/Method) |                                   |
| LINE:                                                                      | Gaz.:                | 9.668342.6104292 |                             | GIS                               |
| #:                                                                         | Local: Unnamed Creek | Sample Type: B   |                             | Wetland: <input type="checkbox"/> |

|                  |  |              |             |  |
|------------------|--|--------------|-------------|--|
| SURVEY INFO      |  |              |             |  |
| Date: 2006/06/20 |  | Agency: C016 | Crew: MJ/JL |  |

|                                                     |                 |                                                                                                                                                                                                |                                                                                                                                                                                                     |                          |                          |                          |                          |                          |                          |                          |                          |                          |  |  |
|-----------------------------------------------------|-----------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|--|--|
| ATTRIBUTES                                          |                 |                                                                                                                                                                                                |                                                                                                                                                                                                     |                          |                          |                          |                          |                          |                          |                          |                          |                          |  |  |
| Length (km): .95                                    | Gradient: 15.26 | Setting: VW                                                                                                                                                                                    | DISTURBANCE INDICATORS                                                                                                                                                                              |                          |                          |                          |                          |                          |                          |                          |                          |                          |  |  |
| DS Elev.: 724                                       | Order: 3        | Open water: A                                                                                                                                                                                  | <input type="checkbox"/> O1 <input type="checkbox"/> B1 <input type="checkbox"/> B2 <input type="checkbox"/> B3 <input type="checkbox"/> D1 <input type="checkbox"/> D2 <input type="checkbox"/> D3 |                          |                          |                          |                          |                          |                          |                          |                          |                          |  |  |
| US Elev: 869                                        | Magnitude: 6    | Confinement: CO                                                                                                                                                                                | C1                                                                                                                                                                                                  | C2                       | C3                       | C4                       | C5                       | S1                       | S2                       | S3                       | S4                       | S5                       |  |  |
|                                                     | BGC Zone: SBS   | Coupling: CO                                                                                                                                                                                   | <input type="checkbox"/>                                                                                                                                                                            | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |  |  |
| Valley Flat: N                                      | C/D:            | Islands: N                                                                                                                                                                                     |                                                                                                                                                                                                     |                          |                          |                          |                          |                          |                          |                          |                          |                          |  |  |
| Active Floodplain Visible: <input type="checkbox"/> | Est. Width:     | Bars: <input checked="" type="checkbox"/> N <input type="checkbox"/> SIDE <input type="checkbox"/> DIAG <input type="checkbox"/> MID <input type="checkbox"/> SPAN <input type="checkbox"/> BR |                                                                                                                                                                                                     |                          |                          |                          |                          |                          |                          |                          |                          |                          |  |  |
| Channel Pattern: SI                                 |                 | Mass Movement: M                                                                                                                                                                               | Exposed/Eroded: NS                                                                                                                                                                                  |                          |                          |                          |                          |                          |                          |                          |                          |                          |  |  |
|                                                     |                 | Riparian Veg.: C                                                                                                                                                                               | Landuse: NO                                                                                                                                                                                         |                          |                          |                          |                          |                          |                          |                          |                          |                          |  |  |

|          |          |      |
|----------|----------|------|
| MAPS     |          |      |
| Map Type | Map #    | Year |
| TRIM     | 093M.009 | 2006 |

## **Appendix II: Project / Interpretive Maps**

## **Attachment I: Project Planning Document**

## **Attachment II: Field Notes**

## **Attachment III: Photo Documentation**



## PHOTO SURVEY FORM 1 - EQUIPMENT DETAILS

**Survey start date (yyyymmdd):** 01/07/2006  
**Survey end date (yyyymmdd):** 01/08/2006

Agency: C016  
Crew: MJ/JL

## CAMERA #1

|                                                          |                |                |   |
|----------------------------------------------------------|----------------|----------------|---|
| <b>Make &amp; model:</b>                                 | Pentax OptioWP | <b>Lenses:</b> | A |
| <b>Format:</b>                                           | Digital        |                |   |
| <b>Resolution (for digital and video cameras):</b>       | 2048 x 1536    |                |   |
| <b>Output file type (for digital and video cameras):</b> | JPEG           |                |   |

## CAMERA #2

|                                                   |         |
|---------------------------------------------------|---------|
| Make & model:                                     | Lenses: |
| Format:                                           |         |
| Resolution (for digital and video cameras):       |         |
| Output file type (for digital and video cameras): |         |

## LENSES

| Focal length (mm) |         | Focal length (mm) |  |
|-------------------|---------|-------------------|--|
| A                 | 10 - 60 | D                 |  |
| B                 |         | E                 |  |
| C                 |         | F                 |  |

### ROLL AND/OR BATCH DETAILS

[illegible]

qryExpPhotoDoc

| PROJ       | WCSO                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               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| 480-000000 | 480-463533-00000-00000-0000-00                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            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| 480-000000 | 480-463533-00000-00000-0000-00                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            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| 480-000000 | 480-460300-00000-00000-0000-00                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            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| 480-000000 | 480-460300-00000-00000-0000-00                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            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| 480-000000 | 480-460300-00000-00000-0000-00                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            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| 480-000000 | 480-471159-00000-00000-0000-00                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            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| 480-000000 | 480-471159-00000-00000-0000-00                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            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| 480-000000 | 480-471159-00000-00000-0000-00                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            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| 480-000000 | 480-505600-00000-00000-0000-00                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            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| 480-000000 | 480-505600-00000-00000-0000-00                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            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| 480-000000 | 480-513700-00000-00000-0000-00                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            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| 480-000000 | 480-513700-00000-00000-0000-00                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            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| 480-000000 | 480-561100-00000-00000-0000-00                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            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| 480-000000 | 480-561100-00000-00000-0000-00                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            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| 480-000000 | 480-561100-00000-00000-0000-00                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            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| 480-000000 | 480-569253-00000-00000-0000-00                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            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| 480-000000 | 480-569253-00000-00000-0000-00                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            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| 480-000000 | 480-563000-00000-00000-0000-00                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            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| 480-000000 | 480-579300-00000-00000-0000-00                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            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| 480-000000 | 480-579300-00000-00000-0000-00                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            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| 480-000000 | 480-579300-00000-00000-0000-00                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            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| 480-000000 | 480-579300-00000-00000-0000-00                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            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| 480-000000 | 480-593400-74462-00000-0000-00                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            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| 480-000000 | 480-593400-74462-00000-0000-00                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            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| 480-000000 | 480-593400-00000-00000-0000-00                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            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| 480-000000 | 480-593400-00000-00000-0000-00                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            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| 480-000000 | 480-595000-00000-00000-0000-00                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            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| 480-000000 | 480-595000-00000-00000-0000-00                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            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| 480-000000 | 480-595000-00000-00000-0000-00                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            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| 480-000000 | 480-466800-12000-47139-0000-00                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            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| 480-000000 | 480-466800-12000-47139-0000-00                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            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| 480-000000 | 480-466800-12000-47139-0000-0000-000-000-000-000-000-000-000-000-000-000-000-000-000-000-000-000-000-000-000-000-000-000-000-000-000-000-000-000-000-000-000-000-000-000-000-000-000-000-000-000-000-000-000-000-000-000-000-000-000-000-000-000-000-000-000-000-000-000-000-000-000-000-000-000-000-000-000-000-000-000-000-000-000-000-000-000-000-000-000-000-000-000-000-000-000-000-000-000-000-000-000-000-000-000-000-000-000-000-000-000-000-000-000-000-000-000-000-000-000-000-000-000-000-000-000-000-000-000-000-000-000-000-000-000-000-000-000-000-000-000-000-000-000-000-000-000-000-000-000-000-000-000-000-000-000-000-000-000-000-000-000-000-000-000-000-000-000-000-000-000-000-000-000-000-000-000-000-000-000-000-000-000-000-000-000-000-000-000-000-000-000-000-000-000-000-000-000-000-000-000-000-000-000-000-000-000-000-000-000-000-000-000-000-000-000-000-000-000-000-000-000-000-000-000-000-000-000-000-000-000-000-000-000-000-000-000-000-000-000-000-000-000-000-000-000-000-000-000-000-000-000-000-000-000-000-000-000-000-000-000-000-000-000-000-000-000-000-000-000-000-000-000-000-000-000-000-000-000-000-000-000-000-000-000-000-000-000-000-000-000-000-000-000-000-000-000-000-000-000-000-000-000-000-000-000-000-000-000-000-000-000-000-000-000-000-000-000-000-000-000-000-000-000-000-000-000-000-000-000-000-000-000-000-000-000-000-000-000-000-000-000-000-000-000-000-000-000-000-000-000-000-000-000-000-000-000-000-000-000-000-000-000-000-000-000-000-000-000-000-000-000-000-000-000-000-000-000-000-000-000-000-000-000-000-000-000-000-000-000-000-000-000-000-000-000-000-000-000-000-000-000-000-000-000-000-000-000-000-000-000-000-000-000-000-000-000-000-000-000-000-000-000-000-000-000-000-000-000-000-000-000-000-000-000-000-000-000-000-000-000-000-000-000-000-000-000-000-000-000-000-000-000-000-000-000-000-000-000-000-000-000-000-000-000-000-000-000-000-000-000-000-000-000-000-000-000-000-000-000-000-000-000-000-000-000-000-000-000-000-000-000-000-000-000-000-000-000-000-000-000-000-000-000-000-000-000-000-000-000-000-000-000-000-000-000-000-000-000-000-000-000-000-000-000-000-000-000-000-000-000-000-000-000-000-000-000-000-000-000-000-000-000-000-000-000-000-000-000-000-000-000-000-000-000-000-000-000-000-000-000-000-000-000-000-000-000-000-000-000-000-000-000-000-000-000-000-000-000-000-000-000-000-000-000-000-000-000-000-000-000-000-000-000-000-000-000-000-000-000-000-000-000-000-000-000-000-000-000-000-000-000-000-000-000-000-000-000-000-000-000-000-000-000-000-000-000-000-000-000-000-000-000-000-000-000-000-000-000-000-000-000-000-000-000-000-000-000-000-000-000-000-000-000-000-000-000-000-000-000-000-000-000-000-000-000-000-000-000-000-000-000-000-000-000-000-000-000-000-000-000-000-000-000-000-000-000-000-000-000-000-000-000-000-000-000-000-000-000-000-000-000-000-000-000-000-000-000-000-000-000-000-000-000-000-000-000-000-000-000-000-000-000-000-000-000-000-000-000-000-000-000-000-000-000-000-000-000-000-000-000-000-000-000-000-000-000-000-000-000-000-000-000-000-000-000-000-000-000-000-000-000-000-000-000-000-000-000-000-000-000-000-000-000-000-000-000-000-000-000-000-000-000-000-000-000-000-000-000-000-000-000-000-000-000-000-000-000-000-000-000-000-000-000-000-000-000-000-000-000-000-000-000-000-000-000-000-000-000-000-000-000-000-000-000-000-000-000-000-000-000-000-000-000-000-000-000-000-000-000-000-000-000-000-000-000-000-000-000-000-000-000-000-000-000-000-000-000-000-000-000-000-000-000-000-000-000-000-000-000-000-000-000-000-000-000-000-000-000-000-000-000-000-000-000-000-000-000-000-000-000-000-000-000-000-000-000-000-000-000-000-000-000-000-000-000-000-000-000-000-000-000-000-000-000-000-000-000-000-000-000-000-000-000-000-000-000-000-000-000-000-000-000-000-000-000-000-000-000-000-000-000-000-000-000-000-000-000-000-000-000-000-000-000-000-000-000-000-000-000-000-000-000-000-000-000-000-000-000-000-000-000-000-000-000-000-000-000-000-000-000-000-000-000-000-000-000-000-000-000-000-000-000-000-000-000-000-000-000-000-000-000-000-000-000-000-000-000-000-000-000-000-000-000-000-000-000-000-000-000-000-000-000-000-000-000-000-000-000-000-000-000-000-000-000-000-000-000-000-000-000-000-000-000-000-000-000-000-000-000-000-000-000-000-000-000-000-000-000-000-000-000-000-000-000-000-000-000-000-000-000-000-000-000-000-000-000-000-000-000-000-000-000-000-000-000-000-000-000-000-000-000-000-000-000-000-000-000-000-000-000-000-000-000-000-000-000-000-000-000-000-000-000-000-000-000-000-000-000-000-000-000-000-000-000-000-000-000-000-000-000-000-000-000-000-000-000-000-000-000-000-000-000-000-000-000-000-000-000-000-000-000-000-000-000-000-000-000-000-000-000-000-000-000-000-000-000-000-000-000-000-000-000-000-000-000-000-000-000-000-000-000-000-000-000-000-000-000-000-000-000-000-000-000-000-000-000-000-000-000-000-000-000-000-000-000-000-000-000-000-000-000-000-000-000-000-000-000-000-000-000-000-000-000-000-000-000-000-000-000-000-000-000-000-000-000-000-000-000-000-000-000-000-000-000-000-000-000-000-000-000-000-000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|          |      |         |        |     |       |      |            |     |             |             |                  |       |               |                |              |                |                     |                |              |           |            |                            |

## **Attachment IV: Digital Data**