

**Appendix I : FDIS Summary: Reach Cards, Site Cards and Fish Collection Cards.**

# FDIS Reach Card

1999/01/22

Reach # 1 ILP Map # 93L.021 ILP # 688

Watershed Code: 000-000000-00000-00000-0000-0000-000-000-000-000-000-000

## PROJECT

Project Name Skeena Cellulose Fish Inventory Project Code 06-ZYMO-000000325-1999  
Stream Name (gaz.) CLORE RIVER  
Project Watershed Code 440-256900-00000-00000-0000-0000-000-000-000-000-000-000

## WATERSHED

Reach Watershed Code 000-000000-00000-00000-0000-0000-000-000-000-000-000-000  
ILP Map # 93L.021 ILP # 688 Reach # 1.0 NID Map # 93L.021 NID # 6881 UTM(Zone/East/North/Method)  
Gazetted Name Local Name Sample Type B Wetland ☐

## SURVEY INFO

Date 1998/09/16 Agency C172 Crew MLP/BLW

## ATTRIBUTES

Length (km) .30 US Elev 500 DISTURBANCE INDICATORS O1 B1 B2 B3 D1 D2 D3  
DS Elev. 450 Magnitude 1 ☐ ☐ ☐ ☐ ☐ ☐ ☐  
Gradient 16.67 Order 1 BGC Zone CWH C1 C2 C3 C4 C5 S1 S2 S3 S4 S5  
Setting VW ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐  
Islands N  
Open water A Bars ☒ N ☐ SIDE ☐ DIAG ☐ MID ☐ SPAN ☐ BR  
Confinement EN Mass Movement M  
Coupling PC Riparian Veg. C  
Valley Flat N C/D Exposed/Eroded NV  
Active Floodplain Visible ☐ Est. Width: Landuse FB  
Channel Pattern ST

## MAPS

Map Type Map # Year  
TRIM 93L.021 1990

## AIR PHOTOS

Line Number  
BCB8016 50-257

## FEATURES

## PHOTOS

## COMMENTS



# FDIS Site Card

1999/01/22

Watershed Code:

Reach # 1 ILP Map # 93L.021 ILP Number 688 Site 6100  
000-000000-00000-00000-0000-0000-000-000-000-000-000-000

## PROJECT

Project Name Skeena Cellulose Fish Inventory Project Code 06-ZYMO-000000325-1999  
Stream Name (gaz.) CLORE RIVER  
Project Watershed Code 440-256900-00000-00000-0000-0000-000-000-000-000-000-000

## WATERSHED

Gazetted Name Local Name  
Watershed Code 000-000000-00000-00000-0000-0000-000-000-000-000-000-000  
ILP Map# 93L.021 ILP # 688 Reach # 1  
Site # NID Map # NID # UTM(Zone/East/North/Method) Site Lg Method Access Fish Crd?  
6100 93L.021 6100 110 HC H ☒  
Date 1998/10/14 Time 09:38 Agency C172 Crew MLP/BLW Incomplete ☐

## CHANNEL

|                   | method | width | width | width | width | width | width | width | width | width | width |
|-------------------|--------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| Channel Width (m) | T      | 1.1   | 0.8   | 0.9   | 0.7   | 0.8   | 1.2   | 0.7   |       |       |       |
| Wetted Width (m)  | T      | 1.1   | 0.8   | 0.9   | 0.7   | 0.8   | 1.2   | 0.7   |       |       |       |
| Pool Depth (m)    | MS     | 0.06  | 0.07  | 0.46  | 0.20  | 0.10  | 0.20  |       |       |       |       |

grad grad method  
Method I 1.5 C Wb Depth .1 .1 .1 Method MS  
Method II C Stage ☒ L ☐ M ☐ H  
No Vis.Ch. ☐ Intermittent ☐  
Dw ☐ Tribs. ☐  
COVER SWD LWD B C Total DP OV A  
S S N D N S T  
LWD A  
DIST E  
LB SHP S  
Texture ☒ F ☐ G ☐ C ☐ B ☐ R ☐ A  
RB SHP S  
Texture ☒ F ☐ G ☐ C ☐ B ☐ R ☐ A  
CROWN CLOSURE 2 21-40%  
INTREAM VEG ☐ N ☐ A ☒ M ☐ V  
RIP C  
STG MF  
RIP C  
STG MF

## WATER

FLOOD SIGNS NONE Method GE Req #  
Temp 5 Metho T3 EMS  
pH 7.1 Method P1 Cond. 60 Method: S4  
Turb. ☐ T ☐ M ☒ L ☐ C Method: GE

## MORPHOLOGY

BED MATERIAL Dominant: F Subdom: G DISTURBANCE INDICATORS O1 B1 B2 B3 D1 D2 D3  
D95: 1 D (cm): 1 Morph: RP ☐ ☐ ☐ ☐ ☐ ☐ ☐  
Pattern IR C1 C2 C3 C4 C5 S1 S2 S3 S4 S5  
Islands N ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐  
Bars ☐ N ☐ SIDE ☐ DIAG ☐ MID ☐ SPAN ☐ BR  
Coupling PC  
Confinement OC

# FDIS Site Card

1999/01/22

Watershed Code:

Reach # 1 ILP Map # 93L.021 ILP Number 688 Site 6100  
000-000000-00000-00000-0000-0000-000-000-000-000-000-000

## FEATURE

| NID Map | NID                   | Type | Hgt    | Method | Lg | Method | Comments                           |
|---------|-----------------------|------|--------|--------|----|--------|------------------------------------|
| 93L.021 | 7100                  | C    |        | HC     |    | HC     | gradient barrier d/s of site (29%) |
| Photo   | UTM (Zone/East/North) |      | Method |        |    |        |                                    |
| R       | F                     |      |        |        |    |        |                                    |

TRIB ☐ SC ☐ FC ☐ SWP/SLG ☐ FL/BV ☐

## HABITAT QUALITY

| Name               | Comments                                                                                                         |
|--------------------|------------------------------------------------------------------------------------------------------------------|
| OverWinter Habitat | insufficient volume and access to the Clore mainstem is not possible                                             |
| Rearing Habitat    | very marginal habitat present-abundant cover but very low flow with organic substrate and very few pools present |
| Spawning Habitat   | none                                                                                                             |

## PHOTO DOCUMENTATION

| Photo | Foc | Lg | Dir | Comments                         |
|-------|-----|----|-----|----------------------------------|
| R 40  | F   | 1  | STD | U channel with Michelle and Brad |
| R 40  | F   | 2  | STD | D anode and channel in frame     |

## WILDLIFE

## COMMENT

| Section    | Comments                                                                                                                                                      |
|------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------|
| CHANNEL    | the stream flows into a small side channel of the Clore. A 53m section of uninhabitable channel exists between the mouth and the location of the site.        |
| SITE CARD  | Bank shape, coupling and confinement apply to the 50m stretch where fish sampling was conducted. D/S of here, to the mouth, the channel is steep and incised. |
| MORPHOLOGY | cobble is present in the steeper section of the creek but this section is not habitable.                                                                      |

# FDIS Fish Form

1999/01/22

Watershed Code:

000-000000-00000-00000-0000-0000-000-000-000-000-000-000

| Reach # | ILP Map # | ILP # |
|---------|-----------|-------|
| 1       | 93L.021   | 688   |

WATERBODY

**Gazetted Name:**

Local:

WS Code: 000-000000-00000-00000-0000-0000-000-000-000-000-000-000

Lake/Stream: S

Waterbody ID: ILP Map #: 93L.021 ILP #: 688

Project ID: 06-ZYMO-000000325-1999 Reach #: 1

Fish Permit #: 34770-20      Date: 1998/10/14      To: 1998/10/14      Agency C172      Crew: MLP/BLW      Resample: ☐

| SITE / METHOD |     |
|---------------|-----|
| 1             | 1   |
| 2             | 2   |
| 3             | 3   |
| 4             | 4   |
| 5             | 5   |
| 6             | 6   |
| 7             | 7   |
| 8             | 8   |
| 9             | 9   |
| 10            | 10  |
| 11            | 11  |
| 12            | 12  |
| 13            | 13  |
| 14            | 14  |
| 15            | 15  |
| 16            | 16  |
| 17            | 17  |
| 18            | 18  |
| 19            | 19  |
| 20            | 20  |
| 21            | 21  |
| 22            | 22  |
| 23            | 23  |
| 24            | 24  |
| 25            | 25  |
| 26            | 26  |
| 27            | 27  |
| 28            | 28  |
| 29            | 29  |
| 30            | 30  |
| 31            | 31  |
| 32            | 32  |
| 33            | 33  |
| 34            | 34  |
| 35            | 35  |
| 36            | 36  |
| 37            | 37  |
| 38            | 38  |
| 39            | 39  |
| 40            | 40  |
| 41            | 41  |
| 42            | 42  |
| 43            | 43  |
| 44            | 44  |
| 45            | 45  |
| 46            | 46  |
| 47            | 47  |
| 48            | 48  |
| 49            | 49  |
| 50            | 50  |
| 51            | 51  |
| 52            | 52  |
| 53            | 53  |
| 54            | 54  |
| 55            | 55  |
| 56            | 56  |
| 57            | 57  |
| 58            | 58  |
| 59            | 59  |
| 60            | 60  |
| 61            | 61  |
| 62            | 62  |
| 63            | 63  |
| 64            | 64  |
| 65            | 65  |
| 66            | 66  |
| 67            | 67  |
| 68            | 68  |
| 69            | 69  |
| 70            | 70  |
| 71            | 71  |
| 72            | 72  |
| 73            | 73  |
| 74            | 74  |
| 75            | 75  |
| 76            | 76  |
| 77            | 77  |
| 78            | 78  |
| 79            | 79  |
| 80            | 80  |
| 81            | 81  |
| 82            | 82  |
| 83            | 83  |
| 84            | 84  |
| 85            | 85  |
| 86            | 86  |
| 87            | 87  |
| 88            | 88  |
| 89            | 89  |
| 90            | 90  |
| 91            | 91  |
| 92            | 92  |
| 93            | 93  |
| 94            | 94  |
| 95            | 95  |
| 96            | 96  |
| 97            | 97  |
| 98            | 98  |
| 99            | 99  |
| 100           | 100 |

| Site# | NID Map | NID # | UTM:Zone/East/North/Mthd | MTD/NO | Temp | Cond | Turbid | Comment |
|-------|---------|-------|--------------------------|--------|------|------|--------|---------|
| 6100  | 93L.021 | 6100  |                          | EF 1   | 5.0  | 60   | L      |         |

## A. GEAR SETTINGS

| Site# | MTD/NO | H/P | Date In    | Time In | Date Out   | Time Out | Comment |
|-------|--------|-----|------------|---------|------------|----------|---------|
| 6100  | EF 1   | 1   | 1998/10/14 | 09:38   | 1998/10/14 | 10:32    |         |

## B. NET/TRAP SPECIFICATIONS

### C. ELECTROFISHER SPECIFICATIONS

| Site# | MTD/NO |   | H/P | Encl | Sec | Length | Width | Volt | Freq | Pulse | Make       | Model |
|-------|--------|---|-----|------|-----|--------|-------|------|------|-------|------------|-------|
| 6100  | EF     | 1 | 1   | O    | 148 | 110.0  | 0.8   | 400  | 70   | 6     | SMITH ROOT | 12B   |

## FISH SUMMARY

| Site# | MTD/NO | H/P | Species | Stage | Age | Total # | Lgth (Min/Max) | FishAct | Comment |
|-------|--------|-----|---------|-------|-----|---------|----------------|---------|---------|
| 6100  | EF     | 1 1 | NFC     |       |     | 0       |                |         |         |

## INDIVIDUAL FISH DATA

## COMMENTS

# FDIS Reach Card

Reach # 3 ILP Map # ILP #

1999/01/22

Watershed Code: 440-256900-34700-00000-00000-0000-000-000-000-000-000

## PROJECT

Project Name Skeena Cellulose Fish Inventory Project Code 06-ZYMO-000000325-1999  
Stream Name (gaz.) CLORE RIVER  
Project Watershed Code 440-256900-00000-00000-00000-0000-000-000-000-000-000

## WATERSHED

Reach Watershed Code 440-256900-34700-00000-00000-00000-000-000-000-000-000-000  
ILP Map # ILP # Reach # NID Map # NID # UTM(Zone/East/North/Method)  
3.0 93L.021 6563

Gazetted Name Local Name Sample Type B Wetland ☐

## SURVEY INFO

Date 1998/09/16 Agency C172 Crew MLP/BLW

## ATTRIBUTES

Length (km) 2.80 US Elev 1100 DISTURBANCE O1 B1 B2 B3 D1 D2 D3  
INDICATORS ☐ ☐ ☐ ☐ ☐ ☐ ☐  
DS Elev. 700 Magnitude 31 C1 C2 C3 C4 C5 S1 S2 S3 S4 S5  
Gradient 14.29 Order 3 BGC Zone CWH ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐  
Setting VF Islands O  
Open water A Bars ☒ N ☐ SIDE ☐ DIAG ☐ MID ☐ SPAN ☐ BR  
Confinement CO Mass Movement H  
Coupling CO Riparian Veg. C  
Valley Flat N C/D Exposed/Eroded NV  
Active Floodplain Visible ☐ Est. Width: Landuse NO  
Channel Pattern ST

## MAPS

Map Type Map # Year  
TRIM 93L.021 1990

## AIR PHOTOS

Line Number  
BCB8016 214

## FEATURES

## PHOTOS

## COMMENTS

# FDIS Site Card

1999/01/22

Watershed Code:

Reach # 3- ILP Map # ILP Number Site 6101  
440-256900-34700-00000-0000-0000-000-000-000-000-000

## PROJECT

Project Name Skeena Cellulose Fish Inventory Project Code 06-ZYMO-000000325-1999  
Stream Name (gaz.) CLORE RIVER  
Project Watershed Code 440-256900-00000-00000-0000-0000-000-000-000-000-000

## WATERSHED

Gazetted Name Local Name  
Watershed Code 440-256900-34700-00000-0000-0000-000-000-000-000-000  
ILP Map# ILP # Reach # 3  
Site # NID Map # NID # UTM(Zone/East/North/Method) Site Lg Method Access Fish Crd?  
6101 93L.021 6101 102 HC H ☒  
Date 1998/10/04 Time 11:43 Agency C172 Crew MLP/BLW/BP Incomplete ☐

## CHANNEL

|                   | method | width | width | width | width | width | width | width | width | width | width |
|-------------------|--------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| Channel Width (m) | T      | 17.6  | 16.5  | 14.9  | 17.4  | 17.9  | 15.9  |       |       |       |       |
| Wetted Width (m)  | T      | 5.3   | 4.3   | 3.5   | 4.0   | 7.1   | 5.4   |       |       |       |       |
| Pool Depth (m)    | MS     | 0.24  | 0.25  | 0.27  | 0.38  | 0.24  | 0.22  |       |       |       |       |

grad grad method  
Method I 5.0 C Wb Depth 1.3 1.4 1.3 Method MS  
Method II C Stage ☐ L ☒ M ☐ H  
No Vis.Ch. ☐ Intermittent ☐  
Dw ☐ Tribs. ☐  
COVER SWD LWD B C Total DP OV M IV  
N T D N S T N  
LWD F  
DIST E  
LB SHP V  
Texture ☒ F ☐ G ☐ C ☒ B ☐ R ☐ A  
RB SHP V  
Texture ☒ F ☐ G ☐ C ☒ B ☐ R ☐ A  
CROWN CLOSURE 1 1-20%  
INTREAM VEG ☐ N ☐ A ☒ M ☐ V  
RIP C  
STG MF  
RIP C  
STG MF

## WATER

FLOOD SIGNS Req #  
BOULDER HIGH ON LWD Method GE EMS  
Temp 2.5 Metho T3 Cond. 30 Method: S4  
pH 7.6 Method P1 Turb. ☐ T ☐ M ☐ L ☒ C Method: GE

## MORPHOLOGY

BED MATERIAL Dominant: G Subdom: B DISTURBANCE INDICATORS O1 B1 B2 B3 D1 D2 D3  
D95: 60 D (cm): 41 Morph: CPB ☐ ☒ ☒ ☐ ☐ ☐ ☐  
Pattern IR C1 C2 C3 C4 C5 S1 S2 S3 S4 S5  
Islands O ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐  
Bars ☐ N ☒ SIDE ☒ DIAG ☒ MID ☐ SPAN ☐ BR  
Coupling CO  
Confinement FC

# FDIS Site Card

Reach #      ILP Map #      ILP Number      Site

3—

6101

1999/01/22

Watershed Code:

440-256900-34700-00000-00000-0000-000-000-000-000-000

## FEATURE

TRIB ☐    SC ☐    FC ☐    SWP/SLG ☐    FL/BV ☐

## HABITAT QUALITY

| Name               | Comments                                                                                     |
|--------------------|----------------------------------------------------------------------------------------------|
| OverWinter Habitat | no pools >1m deep but potential exists in some of the deeper pools                           |
| Rearing Habitat    | nice step-pool rearing habitat for species like DV. (boulder and pool cover are significant) |
| Spawning Habitat   | some patches of gravel present                                                               |

## PHOTO DOCUMENTATION

| Photo | Foc | Lg | Dir | Comments |                                                |
|-------|-----|----|-----|----------|------------------------------------------------|
| R 40  | F   | 4  | STD | U        | Bryan in channel                               |
| R 40  | F   | 5  | STD | D        | channel at POT of site with wood on both banks |

## WILDLIFE

## COMMENT

| Section   | Comments                                                                                                                                               |
|-----------|--------------------------------------------------------------------------------------------------------------------------------------------------------|
| SITE CARD | no fish were captured though habitat was decent-significant d/s barriers exist (falls, cascads and chutes observed during the helicopter recce flight) |
| CHANNEL   | the riparian veg. is largely mature conifer forest but there are sections of alder slide present in avalanche chutes as well                           |

# FDIS Fish Form

1999/01/22

Reach #    ILP Map #    ILP #  
3

Watershed Code:    440-256900-34700-00000-0000-0000-000-000-000-000-000

## WATERBODY

Gazetted Name:

Local:

WS Code:    440-256900-34700-00000-0000-0000-000-000-000-000-000

Lake/Stream: S

Waterbody ID:

ILP Map #:

ILP #:

Project ID:    06-ZYMO-000000325-1999

Reach #: 3

Fish Permit #:    34770-20

Date: 1998/10/14

To: 1998/10/14

Agency C172

Crew: MLP/BLW

Resample: ☐

## SITE / METHOD

| Site# | NID Map | NID # | UTM:Zone/East/North/Mthd | MTD/NO | Temp | Cond | Turbid | Comment |
|-------|---------|-------|--------------------------|--------|------|------|--------|---------|
| 6101  | 93L.021 | 6101  |                          | EF 1   | 2.5  | 30   | C      |         |

## A. GEAR SETTINGS

| Site# | MTD/NO | H/P | Date In    | Time In | Date Out   | Time Out | Comment |
|-------|--------|-----|------------|---------|------------|----------|---------|
| 6101  | EF 1   | 1   | 1998/10/14 | 11:43   | 1998/10/14 | 12:11    |         |

## B. NET/TRAP SPECIFICATIONS

## C. ELECTROFISHER SPECIFICATIONS

| Site# | MTD/NO | H/P | Encl | Sec | Length | Width | Volt | Freq | Pulse | Make       | Model |
|-------|--------|-----|------|-----|--------|-------|------|------|-------|------------|-------|
| 6101  | EF 1   | 1   | O    | 353 | 102.0  | 4.0   | 400  | 70   | 6     | SMITH ROOT | 12B   |

## FISH SUMMARY

| Site# | MTD/NO | H/P | Species | Stage | Age | Total # | Lgth (Min/Max) | FishAct | Comment |
|-------|--------|-----|---------|-------|-----|---------|----------------|---------|---------|
| 6101  | EF     | 1 1 | NFC     |       |     | 0       |                |         |         |

## INDIVIDUAL FISH DATA

## COMMENTS



# FDIS Reach Card

Reach #    ILP Map #    ILP #

1

1999/01/22

Watershed Code: 440-256900-34700-00000-0000-0000-000-000-000-000-000

## PROJECT

Project Name    Skeena Cellulose Fish Inventory    Project Code    06-ZYMO-000000325-1999

Stream Name (gaz.)    CLORE RIVER

Project Watershed Code    440-256900-00000-00000-0000-0000-000-000-000-000-000

## WATERSHED

Reach Watershed Code    440-256900-34700-00000-0000-0000-000-000-000-000-000

ILP Map #    ILP #    Reach #    NID Map #    NID #    UTM(Zone/East/North/Method)

1.0    93L.021    6561

Gazetted Name    Local Name    Sample Type    B    Wetland ☐

## SURVEY INFO

Date    1998/09/16    Agency    C172    Crew    MLP/BLW

## ATTRIBUTES

|                   |                                  |               |                                       |                               |                               |                              |                               |                             |    |    |    |    |    |  |  |
|-------------------|----------------------------------|---------------|---------------------------------------|-------------------------------|-------------------------------|------------------------------|-------------------------------|-----------------------------|----|----|----|----|----|--|--|
| Length (km)       | .30                              | US Elev       | 480                                   | DISTURBANCE INDICATORS        |                               |                              |                               |                             |    |    |    |    |    |  |  |
| DS Elev.          | 440                              | Magnitude     | 32                                    | O1                            | B1                            | B2                           | B3                            | D1                          | D2 | D3 |    |    |    |  |  |
| Gradient          | 13.33                            | Order         | 3                                     | C1                            | C2                            | C3                           | C4                            | C5                          | S1 | S2 | S3 | S4 | S5 |  |  |
| BGC Zone          | CWH                              |               |                                       |                               |                               |                              |                               |                             |    |    |    |    |    |  |  |
| Setting           | VW                               | Islands       | N                                     |                               |                               |                              |                               |                             |    |    |    |    |    |  |  |
| Open water        | A                                | 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 |    |    |    |    |    |  |  |
| Confinement       | FC                               | Mass Movement | M                                     |                               |                               |                              |                               |                             |    |    |    |    |    |  |  |
| Coupling          | PC                               | Riparian Veg. | C                                     |                               |                               |                              |                               |                             |    |    |    |    |    |  |  |
| Valley Flat       | N                                | C/D           | Exposed/Eroded                        | NV                            |                               |                              |                               |                             |    |    |    |    |    |  |  |
| Active Floodplain | Visible <input type="checkbox"/> | Est. Width:   | Landuse                               | NO                            |                               |                              |                               |                             |    |    |    |    |    |  |  |
| Channel Pattern   | ST                               |               |                                       |                               |                               |                              |                               |                             |    |    |    |    |    |  |  |

## MAPS

Map Type    Map #    Year

TRIM    93L.021    1990

## AIR PHOTOS

Line    Number

BCB8016    15-216

BCB8017    50-256

## FEATURES

## PHOTOS



# FDIS Site Card

1999/01/22

Watershed Code:

Reach # 1- ILP Map # ILP Number Site 6102  
440-256900-34700-00000-00000-00000-00000-00000-00000-00000

## PROJECT

Project Name Skeena Cellulose Fish Inventory Project Code 06-ZYMO-000000325-1999  
Stream Name (gaz.) CLORE RIVER  
Project Watershed Code 440-256900-00000-00000-00000-00000-00000-00000-00000-00000

## WATERSHED

Gazetted Name Local Name  
Watershed Code 440-256900-34700-00000-00000-00000-00000-00000-00000-00000  
ILP Map# ILP # Reach # 1  
Site # NID Map # NID # UTM(Zone/East/North/Method) Site Lg Method Access Fish Crd?  
6102 93L.021 6102 100 HC H ☒  
Date 1998/10/14 Time 13:20 Agency C172 Crew MLP/BLW Incomplete ☐

## CHANNEL

|                   | method | width | width | width | width | width | width | width | width | width | width | width |
|-------------------|--------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| Channel Width (m) | T      | 12.6  | 9.2   | 7.3   | 8.2   | 10.1  | 10.9  |       |       |       |       |       |
| Wetted Width (m)  | T      | 4.1   | 5.5   | 4.8   | 4.7   | 5.2   | 5.2   |       |       |       |       |       |
| Pool Depth (m)    | MS     | 0.24  | 0.26  | 0.20  | 0.16  | 0.18  | 0.16  |       |       |       |       |       |

grad grad method  
Method I 3.0 C  
Method II C  
Wb Depth 1.4 1.4 1.1 Method MS  
Stage ☐ L ☒ M ☐ H  
No Vis.Ch. ☐ Intermittent ☐  
Dw ☐ Tribs. ☐

COVER  
SWD LWD B C Total DP OV M IV  
N S D N S T N

## CROWN CLOSURE

1 1-20%

INTREAM VEG ☒ N ☐ A ☐ M ☐ V

RIP C

STG MF

RIP C

STG MF

## WATER

### FLOOD SIGNS

DISTURBED CHANNEL Method GE

Temp 3.5 Metho T3

pH 7.7 Method P1

Req #

EMS

Cond. 40

Turb. ☐ T ☐ M ☐ L ☒ C

Method: S4

Method: GE

## MORPHOLOGY

BED MATERIAL Dominant: B Subdom: G  
D95: 112 D (cm): 41 Morph: CP

### DISTURBANCE INDICATORS

|            | O1                       | B1                       | B2                       | B3                       | D1                       | D2                       | D3                       | C1                       | C2                       | C3                       | C4                       | C5                       | S1                       | S2                       | S3                       | S4                       | S5                       |
|------------|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|
| Pattern SI | <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"/> |
| 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"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |

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

Coupling PC

Confinement FC

# FDIS Site Card

1999/01/22

Watershed Code:

Reach # 1 — ILP Map # ILP Number Site 6102  
440-256900-34700-00000-0000-0000-000-000-000-000-000

## FEATURE

TRIB ☐ SC ☐ FC ☐ SWP/SLG ☐ FL/BV ☐

## HABITAT QUALITY

| Name               | Comments                                                                      |
|--------------------|-------------------------------------------------------------------------------|
| OverWinter Habitat | none in channel but access to the Clore is unimpeded                          |
| Rearing Habitat    | moderate value-the pool habitat between cascade/steps is not very substantive |
| Spawning Habitat   | gravel is present                                                             |

## PHOTO DOCUMENTATION

| Photo    | Foc | Lg | Dir | Comments                                           |
|----------|-----|----|-----|----------------------------------------------------|
| R 40 F 7 | STD | U  |     | Michelle in channel                                |
| R 40 F 8 | STD | D  |     | mouth of channel (confluence with the Clore River) |

## WILDLIFE

## COMMENT

| Section    | Comments                                                                                                                                        |
|------------|-------------------------------------------------------------------------------------------------------------------------------------------------|
| MORPHOLOGY | There is a very short reach (reach 1) before larger cascades and less habitat are present (reach 2). Recce flight showed large falls in reach 2 |
| SITE CARD  | 1 DV was caught and taken as a voucher specimen                                                                                                 |

FDIS Fish Form

1999/01/22

Reach #  
1

ILP Map #

ILP #

Watershed Code: 440-256900-34700-00000-0000-0000-000-000-000-000-000

WATERBODY

Gazetted Name:

Local:

WS Code: 440-256900-34700-00000-0000-0000-000-000-000-000-000

Lake/Stream: S

Waterbody ID:

ILP Map #:

ILP #:

Project ID: 06-ZYMO-000000325-1999

Reach #: 1

Fish Permit #: 34770-20

Date: 1998/10/14

To: 1998/10/14

Agency C172

Crew: MLP/BLW

Resample: ☐

SITE / METHOD

| Site# | NID Map | NID # | UTM:Zone/East/North/Mthd | MTD/NO | Temp | Cond | Turbid | Comment |
|-------|---------|-------|--------------------------|--------|------|------|--------|---------|
| 6102  | 93L.021 | 6102  |                          | EF 1   | 3.5  | 40   | C      |         |

A. GEAR SETTINGS

| Site# | MTD/NO | H/P | Date In    | Time In | Date Out   | Time Out | Comment |
|-------|--------|-----|------------|---------|------------|----------|---------|
| 6102  | EF 1   | 1   | 1998/10/14 | 13:20   | 1998/10/14 | 13:42    |         |

B. NET/TRAP SPECIFICATIONS

C. ELECTROFISHER SPECIFICATIONS

| Site# | MTD/NO | H/P | Encl | Sec | Length | Width | Volt | Freq | Pulse | Make       | Model |
|-------|--------|-----|------|-----|--------|-------|------|------|-------|------------|-------|
| 6102  | EF 1   | 1   | O    | 412 | 100.0  | 5.0   | 400  | 70   | 6     | SMITH ROOT | 12B   |

FISH SUMMARY

| Site# | MTD/NO | H/P | Species | Stage | Age | Total # | Lgth (Min/Max) | FishAct | Comment |
|-------|--------|-----|---------|-------|-----|---------|----------------|---------|---------|
| 6102  | EF 1   | 1   | DV      | J     |     | 1       | 118 118        | R       |         |

INDIVIDUAL FISH DATA

| Site# | MTD/NO | H/P | Species | Length | Weight | Sex | Mat | Age<br>Str/Smpl#/Age | Vch# | Genetic<br>Str/Smpl# | Roll # | Frame# | Comment |
|-------|--------|-----|---------|--------|--------|-----|-----|----------------------|------|----------------------|--------|--------|---------|
| 6102  | EF 1   | 1   | DV      | 118    |        | U   | IM  |                      | 1    |                      | 40     | 6      |         |

COMMENTS

# FDIS Reach Card

1999/01/22

Reach # 2  
ILP Map #  
ILP #

Watershed Code: 440-256900-37300-00000-00000-00000-00000-00000-00000-00000-00000

## PROJECT

Project Name Skeena Cellulose Fish Inventory Project Code 06-ZYMO-000000325-1999  
Stream Name (gaz.) CLORE RIVER  
Project Watershed Code 440-256900-00000-00000-00000-00000-00000-00000-00000-00000-00000-00000-00000

## WATERSHED

Reach Watershed Code 440-256900-37300-00000-00000-00000-00000-00000-00000-00000-00000-00000-00000  
ILP Map # ILP # Reach # NID Map # NID # UTM(Zone/East/North/Method)  
2.0 103I.030 6892  
Gazetted Name Local Name Sample Type B Wetland ☐

## SURVEY INFO

Date 1998/09/16 Agency C172 Crew MLP/BLW

## ATTRIBUTES

Length (km) 2.70 US Elev 800 DISTURBANCE INDICATORS O1 B1 B2 B3 D1 D2 D3  
DS Elev. 640 Magnitude 97  
Gradient 3.81 Order 4 BGC Zone CWH C1 C2 C3 C4 C5 S1 S2 S3 S4 S5  
Setting VF Islands N  
Open water A Bars ☐ N ☐ SIDE ☐ DIAG ☐ MID ☒ SPAN ☐ BR  
Confinement FC Mass Movement M  
Coupling PC Riparian Veg. C  
Valley Flat N C/D Exposed/Eroded NV  
Active Floodplain Visible ☒ Est. Width: 40.0 Landuse FR  
Channel Pattern IR

## MAPS

Map Type Map # Year  
TRIM 93L.021 1990  
TRIM 103I.030 1990

## AIR PHOTOS

Line Number  
BCB8016 18-220

## FEATURES

## PHOTOS

## COMMENTS

# FDIS Site Card

1999/01/22

Watershed Code:

Reach # 2  
ILP Map #  
ILP Number  
Site 6103  
440-256900-37300-00000-0000-0000-000-000-000-000-000

## PROJECT

Project Name Skeena Cellulose Fish Inventory Project Code 06-ZYMO-000000325-1999  
Stream Name (gaz.) CLORE RIVER  
Project Watershed Code 440-256900-00000-00000-0000-0000-000-000-000-000-000

## WATERSHED

Gazetted Name Local Name  
Watershed Code 440-256900-37300-00000-0000-0000-000-000-000-000-000  
ILP Map# ILP # Reach # 2  
Site # NID Map # NID # UTM(Zone/East/North/Method) Site Lg Method Access Fish Crd?  
6103 93L.021 6103 100 HC H ☒  
Date 1998/10/14 Time 14:38 Agency C172 Crew MLP/BLW Incomplete ☐

## CHANNEL

|                   | method | width | width | width | width | width | width | width | width | width | width | width |
|-------------------|--------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| Channel Width (m) | T      | 43.0  | 32.0  | 36.0  | 41.0  | 33.0  | 32.0  |       |       |       |       |       |
| Wetted Width (m)  | T      | 5.1   | 4.9   | 4.8   | 4.6   | 5.3   | 4.2   |       |       |       |       |       |
| Pool Depth (m)    | MS     | 0.18  | 0.13  | 0.15  | 0.16  | 0.16  | 0.23  |       |       |       |       |       |

grad grad method  
Method I 4.0 C Wb Depth 1.7 1.6 1.4 Method MS  
Method II C Stage ☐ L ☒ M ☐ H  
No Vis.Ch. ☐ Intermittent ☐  
Dw ☐ Tribs. ☐  
COVER SWD LWD B C Total DP OV M IV  
N T D N S N N  
LWD F DIST C LB SHP V  
Texture ☒ F ☐ G ☐ C ☐ B ☐ R ☐ A  
RB SHP V Texture ☒ F ☐ G ☐ C ☐ B ☐ R ☐ A  
CROWN CLOSURE 0 0%  
INTREAM VEG ☒ N ☐ A ☐ M ☐ V  
RIP C STG MF  
RIP C STG MF

## WATER

FLOOD SIGNS Req #  
BLOWN OUT SECTION Method GE EMS  
Temp 4 Metho T3 Cond. 40 Method: S4  
pH 8.0 Method P1 Turb. ☐ T ☒ M ☐ L ☐ C Method: GE

## MORPHOLOGY

BED MATERIAL Dominant: B Subdom: C DISTURBANCE INDICATORS O1 B1 B2 B3 D1 D2 D3  
D95: 96 D (cm): 31 Morph: CPB ☐ ☐ ☒ ☐ ☐ ☐  
Pattern SI C1 C2 C3 C4 C5 S1 S2 S3 S4 S5  
Islands N ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☒ ☐  
Bars ☐ N ☒ SIDE ☐ DIAG ☐ MID ☐ SPAN ☐ BR  
Coupling PC  
Confinement OC

# FDIS Site Card

1999/01/22

Reach #

ILP Map #

ILP Number

Site

2-

6103

Watershed Code:

440-256900-37300-00000-0000-0000-000-000-000-000

## FEATURE

TRIB ☐ SC ☐ FC ☐ SWP/SLG ☐ FL/BV ☐

## HABITAT QUALITY

| Name               | Comments                                                                                                          |
|--------------------|-------------------------------------------------------------------------------------------------------------------|
| OverWinter Habitat | insufficient pools present                                                                                        |
| Rearing Habitat    | good for DV, RB- not too steep with step pool morphology where the steps are quite small. Cover is lacking though |
| Spawning Habitat   | patches of unsuitable gravel present (ie- very angular and mixed with sand and or cobble)                         |

## PHOTO DOCUMENTATION

| Photo |   |    | Foc Lg | Dir | Comments        |
|-------|---|----|--------|-----|-----------------|
| R 40  | F | 9  | STD    | U   | Miichelle on LB |
| R 40  | F | 10 | STD    | D   | channel         |

## WILDLIFE

## COMMENT

| Section    | Comments                                                                                                                                         |
|------------|--------------------------------------------------------------------------------------------------------------------------------------------------|
| CHANNEL    | the creek is a very milky blue-grey colour. This section is disturbed (with very wide channel devoid of established, larger vascular vegetation) |
| MORPHOLOGY | there is an 8m falls present d/s                                                                                                                 |
| SITE CARD  | the riparian vegetation is mostly conifer but sections of alder slide are present as well.                                                       |

# FDIS Fish Form

1999/01/22

Reach #    ILP Map #    ILP #  
2

Watershed Code: 440-256900-37300-00000-0000-0000-000-000-000-000-000

## WATERBODY

Gazetted Name:

Local:

WS Code: 440-256900-37300-00000-0000-0000-000-000-000-000-000

Lake/Stream: S

Waterbody ID:

ILP Map #:

ILP #:

Project ID: 06-ZYMO-000000325-1999

Reach #: 2

Fish Permit #: 34770-20

Date: 1998/10/14

To: 1998/10/14

Agency C172

Crew: MLP/BLW

Resample: ☐

## SITE / METHOD

| Site# | NID Map | NID # | UTM:Zone/East/North/Mthd | MTD/NO | Temp | Cond | Turbid | Comment |
|-------|---------|-------|--------------------------|--------|------|------|--------|---------|
| 6103  | 93L.021 | 6103  |                          | EF 1   | 4.0  | 40   | M      |         |

## A. GEAR SETTINGS

| Site# | MTD/NO | H/P | Date In    | Time In | Date Out   | Time Out | Comment |
|-------|--------|-----|------------|---------|------------|----------|---------|
| 6103  | EF 1   | 1   | 1998/10/14 | 14:38   | 1998/10/14 | 14:56    |         |

## B. NET/TRAP SPECIFICATIONS

## C. ELECTROFISHER SPECIFICATIONS

| Site# | MTD/NO | H/P | Encl | Sec | Length | Width | Volt | Freq | Pulse | Make       | Model |
|-------|--------|-----|------|-----|--------|-------|------|------|-------|------------|-------|
| 6103  | EF 1   | 1   | O    | 435 | 100.0  | 4.5   | 500  | 70   | 6     | SMITH ROOT | 12B   |

## FISH SUMMARY

| Site# | MTD/NO | H/P | Species | Stage | Age | Total # | Lgth (Min/Max) | FishAct | Comment |
|-------|--------|-----|---------|-------|-----|---------|----------------|---------|---------|
| 6103  | EF 1   | 1   | NFC     |       |     | 0       |                |         |         |

## INDIVIDUAL FISH DATA

## COMMENTS



# FDIS Reach Card

Reach #    ILP Map #    ILP #

1

1999/01/22

Watershed Code:    440-256900-39500-00000-0000-0000-000-000-000-000-000

## PROJECT

Project Name    Skeena Cellulose Fish Inventory    Project Code    06-ZYMO-000000325-1999

Stream Name (gaz.)    CLORE RIVER

Project Watershed Code    440-256900-00000-00000-0000-0000-000-000-000-000-000

## WATERSHED

Reach Watershed Code    440-256900-39500-00000-0000-0000-000-000-000-000-000

ILP Map #    ILP #    Reach #    NID Map #    NID #    UTM(Zone/East/North/Method)

1.0    93L.021    7941

Gazetted Name    Local Name    Sample Type    B    Wetland ☐

## SURVEY INFO

Date    1998/09/16    Agency    C172    Crew    MLP/BLW

## ATTRIBUTES

Length (km)    .70    US Elev    600    DISTURBANCE    O1    B1    B2    B3    D1    D2    D3

DS Elev.    470    Magnitude    66    INDICATORS    ☐    ☐    ☐    ☐    ☐    ☐    ☐

Gradient    18.57    Order    3    BGC Zone    CWH    C1    C2    C3    C4    C5    S1    S2    S3    S4    S5

Setting    VF    ☐    ☐    ☐    ☐    ☐    ☐    ☐    ☐    ☐    ☐    ☐    ☐    ☐

Open water    A    Islands    N

Confinement    EN    Bars    ☒ N    ☐ SIDE    ☐ DIAG    ☐ MID    ☐ SPAN    ☐ BR

Coupling    CO    Mass Movement    H

Valley Flat    N    C/D    Riparian Veg.    C

Active Floodplain    Visible ☐ Est. Width:    Exposed/Eroded    NV

Channel Pattern    ST    Landuse    FR

## MAPS

Map Type    Map #    Year

TRIM    93L.021    1990

TRIM    103L.030    1990

## AIR PHOTOS

## FEATURES

NID Map    93L.021    NID:    5024

Type:    F    Height:    30.0    Method:

Length:    Method:

Photo:    R    F    Comments:

UTM (Zone/East/North)

# FDIS Site Card

1999/01/22

Watershed Code:

Reach # 1- ILP Map # ILP Number 6104  
440-256900-39500-00000-00000-0000-000-000-000-000-000

## PROJECT

Project Name Skeena Cellulose Fish Inventory Project Code 06-ZYMO-000000325-1999  
Stream Name (gaz.) CLORE RIVER  
Project Watershed Code 440-256900-00000-00000-00000-0000-000-000-000-000-000

## WATERSHED

Gazetted Name Local Name  
Watershed Code 440-256900-39500-00000-00000-0000-000-000-000-000-000  
ILP Map# ILP # Reach # 1  
Site # NID Map # NID # UTM(Zone/East/North/Method) Site Lg Method Access Fish Crd?  
6104 93L.021 6104 100 HC H ☒  
Date 1998/10/14 Time 15:34 Agency C172 Crew MLP/BLW Incomplete ☐

## CHANNEL

|                   | method | width | width | width | width | width | width | width | width | width | width | width |
|-------------------|--------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| Channel Width (m) | T      | 9.7   | 8.2   | 9.8   | 10.1  | 9.6   | 9.5   |       |       |       |       |       |
| Wetted Width (m)  | T      | 7.2   | 6.1   | 7.9   | 7.1   | 7.6   | 6.9   |       |       |       |       |       |
| Pool Depth (m)    | MS     | 0.98  | 0.46  | 0.52  | 0.61  | 0.53  | 0.78  |       |       |       |       |       |

grad grad method  
Method I 4.0 C  
Method II C

Wb Depth .9 1.0 1.1 Method MS  
Stage ☐ L ☒ M ☐ H  
No Vis.Ch. ☐ Intermittent ☐  
Dw ☐ Tribs. ☐

COVER  
SWD LWD B C Total A  
DP OV IV  
T S S N D T N

CROWN CLOSURE  
1 1-20%

LWD A  
DIST E  
LB SHP V  
Texture ☐ F ☐ G ☐ C ☐ B ☒ R ☐ A  
RB SHP V  
Texture ☐ F ☐ G ☐ C ☒ B ☐ R ☐ A

INTREAM VEG ☐ N ☐ A ☒ M ☐ V  
RIP C  
STG MF  
RIP C  
STG MF

## WATER

### FLOOD SIGNS

NONE Method GE  
Temp 4.5 Metho T3  
pH 7.6 Method P1

### Req #

EMS  
Cond. 30 Method: S4  
Turb. ☐ T ☐ M ☒ L ☐ C Method: GE

## MORPHOLOGY

BED MATERIAL Dominant: C Subdom: B DISTURBANCE INDICATORS O1 B1 B2 B3 D1 D2 D3  
D95: 93 D (cm): 41 Morph: CPB  
Pattern IM C1 C2 C3 C4 C5 S1 S2 S3 S4 S5  
Islands N  
Bars ☐ N ☒ SIDE ☐ DIAG ☐ MID ☐ SPAN ☐ BR  
Coupling CO  
Confinement EN

# FDIS Site Card

Reach #      ILP Map #      ILP Number      Site

1—

6104

1999/01/22

Watershed Code:

440-256900-39500-00000-0000-0000-000-000-000-000-000

## FEATURE

TRIB ☐    SC ☐    FC ☐    SWP/SLG ☐    FL/BV ☐

## HABITAT QUALITY

| Name               | Comments                                                               |
|--------------------|------------------------------------------------------------------------|
| OverWinter Habitat | pools possibly deep enough/ good access to the Clore                   |
| Rearing Habitat    | beautiful habitat- deep pools, clean substrate, and good quality cover |
| Spawning Habitat   | small patches of spawning gravel present                               |

## PHOTO DOCUMENTATION

| Photo | Foc | Lg | Dir | Comments |                                               |
|-------|-----|----|-----|----------|-----------------------------------------------|
| R 40  | F   | 11 | STD | U        | Michelle on LB and cut block at bend in creek |
| R 40  | F   | 12 | STD | D        | channel with very nice habitat                |

## WILDLIFE

| Group | Observations                    |
|-------|---------------------------------|
| MAM   | wolf tracks at Clore confluence |

## COMMENT

| Section | Comments                                                                                                                                            |
|---------|-----------------------------------------------------------------------------------------------------------------------------------------------------|
| CHANNEL | A cut block is presetrn on river right. The remaining timber is only presetrn to the tops of the steep, V-shaped bank and blow down is now present. |

# FDIS Fish Form

1999/01/22

Reach # 1 ILP Map # ILP #

Watershed Code: 440-256900-39500-00000-00000-0000-000-000-000-000-000

## WATERBODY

Gazetted Name:

Local:

WS Code: 440-256900-39500-00000-00000-0000-000-000-000-000-000

Lake/Stream: S

Waterbody ID:

ILP Map #:

ILP #:

Project ID: 06-ZYMO-000000325-1999

Reach #: 1

Fish Permit #: 34770-20

Date: 1998/10/14

To: 1998/10/14

Agency C172

Crew: MLP/BLW

Resample: ☐

## SITE / METHOD

| Site# | NID Map | NID # | UTM:Zone/East/North/Mthd | MTD/NO | Temp | Cond | Turbid | Comment |
|-------|---------|-------|--------------------------|--------|------|------|--------|---------|
| 6104  | 93L 021 | 6104  |                          | EF 1   | 4.5  | 30   | L      |         |

## A. GEAR SETTINGS

| Site# | MTD/NO | H/P | Date In    | Time In | Date Out   | Time Out | Comment |
|-------|--------|-----|------------|---------|------------|----------|---------|
| 6104  | EF 1   | 1   | 1998/10/14 | 15:34   | 1998/10/14 | 15:52    |         |

## B. NET/TRAP SPECIFICATIONS

## C. ELECTROFISHER SPECIFICATIONS

| Site# | MTD/NO | H/P | Encl | Sec | Length | Width | Volt | Freq | Pulse | Make       | Model |
|-------|--------|-----|------|-----|--------|-------|------|------|-------|------------|-------|
| 6104  | EF 1   | 1   | O    | 520 | 100.0  | 7.5   | 500  | 70   | 6     | SMITH ROOT | 12B   |

## FISH SUMMARY

| Site# | MTD/NO | H/P | Species | Stage | Age | Total # | Lgth (Min/Max) | FishAct | Comment |
|-------|--------|-----|---------|-------|-----|---------|----------------|---------|---------|
| 6104  | EF 1   | 1   | DV      | A     |     | 1       | 97             | 97      | R       |
| 6104  | EF 1   | 1   | DV      | J     |     | 1       | 32             | 32      | R       |
| 6104  | EF 1   | 1   | BT      | A     |     | 1       | 104            | 104     | R       |

## INDIVIDUAL FISH DATA

| Site# | MTD/NO | H/P | Species | Length | Weight | Sex | Mat | Age<br>Str/Smpl#/Age | Vch# | Genetic<br>Str/Smpl# | Roll # | Frame# | Comment                          |
|-------|--------|-----|---------|--------|--------|-----|-----|----------------------|------|----------------------|--------|--------|----------------------------------|
| 6104  | EF 1   | 1   | DV      | 32     |        | U   | IM  |                      |      |                      |        |        |                                  |
| 6104  | EF 1   | 1   | DV      | 97     |        | U   | M   |                      |      |                      |        |        |                                  |
| 6104  | EF 1   | 1   | BT      | 104    |        | U   | M   |                      | 2    |                      | 40     | 13     | Bstgl. ray coun<br>@ 15 per side |

## COMMENTS

# FDIS Reach Card

1999/01/22

Reach # ILP Map # ILP #

3

Watershed Code: 440-256900-03700-00000-00000-00000-00000-00000-00000-00000-00000

## PROJECT

Project Name Skeena Cellulose Fish Inventory Project Code 06-ZYMO-000000325-1999  
Stream Name (gaz.) CLORE RIVER  
Project Watershed Code 440-256900-00000-00000-00000-00000-00000-00000-00000-00000-00000

## WATERSHED

Reach Watershed Code 440-256900-03700-00000-00000-00000-00000-00000-00000-00000-00000  
ILP Map # ILP # Reach # NID Map # NID # UTM(Zone/East/North/Method)  
3.0 1031.040 37003

Gazetted Name Local Name Sample Type B Wetland ☐  
TRAPLINE CREEK

## SURVEY INFO

Date 1998/09/16 Agency C172 Crew MLP/BLW

## ATTRIBUTES

Length (km) 3.30 US Elev 760 DISTURBANCE O1 B1 B2 B3 D1 D2 D3  
DS Elev. 590 Magnitude 17 INDICATORS ☐ ☐ ☐ ☐ ☐ ☐ ☐  
Gradient 5.15 Order 3 BGC Zone CWH C1 C2 C3 C4 C5 S1 S2 S3 S4 S5  
Setting VF Islands N  
Open water A Bars ☒ N ☐ SIDE ☐ DIAG ☐ MID ☐ SPAN ☐ BR  
Confinement UN Mass Movement M  
Coupling DC Riparian Veg. C  
Valley Flat N C/D Exposed/Eroded NV  
Active Floodplain Visible ☐ Est. Width: Landuse FB  
Channel Pattern SI

## MAPS

Map Type Map # Year  
TRIM 1031.040 1990  
TRIM 1031.050 1990

## AIR PHOTOS

Line Number  
BCB8019 95-197  
BCB8019 50-53

## FEATURES

NID Map 1031.050 NID: 5007  
Type: F Height: 2.0 Method: NS  
Length: 0 Method: NS  
Photo: R F Comments: Located at R2/R3 break, end of fish use  
UTM (Zone/East/North)

FDIS Reach Card

1999/01/22

Reach #    ILP Map #    ILP #  
3

Watershed Code:    440-256900-03700-00000-0000-0000-000-000-000-000-000

| PHOTOS   |   |    |        |     |                    |
|----------|---|----|--------|-----|--------------------|
| Photo    |   |    | Foc Lg | Dir | Comments           |
| R 26     | F | 23 | STD    | U   | Falls/chute at EFU |
| R 26     | F | 24 | STD    | D   | Falls/chute at EFU |
| COMMENTS |   |    |        |     |                    |

# FDIS Site Card

1999/01/22

Reach # 3- ILP Map # ILP Number 6105  
 Watershed Code: 440-256900-03700-00000-00000-00000-00000-00000-00000-00000-00000

## PROJECT

Project Name Skeena Cellulose Fish Inventory Project Code 06-ZYMO-000000325-1999  
 Stream Name (gaz.) CLORE RIVER  
 Project Watershed Code 440-256900-00000-00000-00000-00000-00000-00000-00000-00000-00000

## WATERSHED

Gazetted Name TRAPLINE CREEK Local Name  
 Watershed Code 440-256900-03700-00000-00000-00000-00000-00000-00000-00000-00000  
 ILP Map# ILP # Reach # 3  
 Site # NID Map # NID # UTM(Zone/East/North/Method) Site Lg Method Access Fish Crd?  
 6105 1031.040 6105 100 HC H ☒  
 Date 1998/10/15 Time 10:07 Agency C172 Crew MLP/BLW Incomplete ☐

## CHANNEL

|                   | method | width | width | width | width | width | width | width | width | width | width |
|-------------------|--------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| Channel Width (m) | T      | 4.2   | 4.4   | 4.3   | 5.4   | 6.4   | 5.5   |       |       |       |       |
| Wetted Width (m)  | T      | 4.2   | 4.1   | 4.3   | 3.1   | 5.8   | 2.4   |       |       |       |       |
| Pool Depth (m)    | MS     | 0.32  | 31.00 | 0.53  | 0.24  | 0.26  | 0.34  |       |       |       |       |

grad grad method  
 Method I 1.5 C  
 Method II C

Wb Depth .2 .2 .2 Method MS  
 Stage ☐ L ☒ M ☐ H  
 No Vis.Ch. ☐ Intermittent ☐  
 Dw ☐ Tribs. ☒

COVER  
 SWD LWD B C Total A  
 DP OV IV  
 T S N D S T S

LWD A  
 DIST E  
 LB SHP S  
 Texture ☒ F ☒ G ☐ C ☐ B ☐ R ☐ A  
 RB SHP S  
 Texture ☒ F ☒ G ☐ C ☐ B ☐ R ☐ A

CROWN CLOSURE  
 1 1-20%

INTREAM VEG ☐ N ☒ A ☒ M ☐ V  
 RIP C  
 STG MF  
 RIP C  
 STG MF

## WATER

FLOOD SIGNS  
 NONE Method GE  
 Temp 4 Metho T3  
 pH 7.8 Method P1

Req #  
 EMS  
 Cond. 50 Method: S4  
 Turb. ☐ T ☐ M ☐ L ☒ C Method: GE

## MORPHOLOGY

BED MATERIAL Dominant: G Subdom: C DISTURBANCE INDICATORS O1 B1 B2 B3 D1 D2 D3  
 D95: 13 D (cm): 13 Morph: RP ☐ ☐ ☐ ☐ ☐ ☐ ☐  
 Pattern IM C1 C2 C3 C4 C5 S1 S2 S3 S4 S5  
 Islands N ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐  
 Bars ☐ N ☒ SIDE ☐ DIAG ☐ MID ☐ SPAN ☐ BR  
 Coupling DC  
 Confinement UN



# FDIS Site Card

Reach #    ILP Map #    ILP Number    Site

3-

6105

1999/01/22

Watershed Code:

440-256900-03700-00000-0000-0000-000-000-000-000-000

## FEATURE

TRIB ☐    SC ☐    FC ☐    SWP/SLG ☐    FL/BV ☐

## HABITAT QUALITY

| Name               | Comments                                                                    |
|--------------------|-----------------------------------------------------------------------------|
| OverWinter Habitat | possible                                                                    |
| Rearing Habitat    | beautiful rearing with noce pools and substrate and abundant undercut banks |
| Spawning Habitat   | abundant gravel available                                                   |

## PHOTO DOCUMENTATION

| Photo           | Foc | Lg | Dir                       | Comments |
|-----------------|-----|----|---------------------------|----------|
| R 40    F    14 | STD | U  | Bryan on log across banks |          |
| R 40    F    15 | STD | U  | channel with LWD          |          |

## WILDLIFE

## COMMENT

| Section    | Comments                                                   |
|------------|------------------------------------------------------------|
| SITE CARD  | flagging of unknown origin was observed in the trees on LB |
| CHANNEL    | This is an exceptionally beautiful, pristine stream        |
| MORPHOLOGY | D/S barriers are known to exist and no fish were captured  |

# FDIS Fish Form

1999/01/22

Reach # 3 ILP Map # ILP #

Watershed Code: 440-256900-03700-00000-0000-0000-000-000-000-000-000

## WATERBODY

Gazetted Name: TRAPLINE CREEK Local: Lake/Stream: S  
 WS Code: 440-256900-03700-00000-0000-0000-000-000-000-000-000-000  
 Waterbody ID: ILP Map #: ILP #:  
 Project ID: 06-ZYMO-000000325-1999 Reach #: 3

Fish Permit #: 34770-20 Date: 1998/10/15 To: 1998/10/15 Agency C172 Crew: MLP/BLW Resample: ☐

## SITE / METHOD

| Site# | NID Map  | NID # | UTM:Zone/East/North/Mthd | MTD/NO | Temp | Cond | Turbid | Comment |
|-------|----------|-------|--------------------------|--------|------|------|--------|---------|
| 6105  | 1031.040 | 6105  |                          | EF 1   | 4.0  | 50   | C      |         |

## A. GEAR SETTINGS

| Site# | MTD/NO | H/P | Date In    | Time In | Date Out   | Time Out | Comment |
|-------|--------|-----|------------|---------|------------|----------|---------|
| 6105  | EF 1   | 1   | 1998/10/15 | 10:07   | 1998/10/15 | 10:22    |         |

## B. NET/TRAP SPECIFICATIONS

## C. ELECTROFISHER SPECIFICATIONS

| Site# | MTD/NO | H/P | Encl | Sec | Length | Width | Volt | Freq | Pulse | Make       | Model |
|-------|--------|-----|------|-----|--------|-------|------|------|-------|------------|-------|
| 6105  | EF 1   | 1   | O    | 503 | 100.0  | 4.0   | 400  | 70   | 6     | SMITH ROOT | 12B   |

## FISH SUMMARY

| Site# | MTD/NO | H/P | Species | Stage | Age | Total # | Lgth (Min/Max) | FishAct | Comment |
|-------|--------|-----|---------|-------|-----|---------|----------------|---------|---------|
| 6105  | EF 1   | 1   | NFC     |       |     | 0       |                |         |         |

## INDIVIDUAL FISH DATA

## COMMENTS

# FDIS Reach Card

1999/01/22

Reach # 1 ILP Map # ILP #

Watershed Code: 440-256900-03700-26000-0000-0000-000-000-000-000-000

## PROJECT

Project Name Skeena Cellulose Fish Inventory Project Code 06-ZYMO-000000325-1999  
Stream Name (gaz.) CLORE RIVER  
Project Watershed Code 440-256900-00000-00000-0000-0000-000-000-000-000-000

## WATERSHED

Reach Watershed Code 440-256900-03700-26000-0000-0000-000-000-000-000-000  
ILP Map # ILP # Reach # NID Map # NID # UTM(Zone/East/North/Method)  
1.0 103I.050 401

Gazetted Name Local Name Sample Type B Wetland ☐

## SURVEY INFO

Date 1998/09/16 Agency C172 Crew MLP/BLW

## ATTRIBUTES

Length (km) .50 US Elev 540 DISTURBANCE O1 B1 B2 B3 D1 D2 D3  
INDICATORS ☐ ☐ ☐ ☐ ☐ ☐ ☐  
DS Elev. 430 Magnitude 3 C1 C2 C3 C4 C5 S1 S2 S3 S4 S5  
Gradient 22 Order 2 BGC Zone CWH ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐  
Setting VW Islands N  
Open water A Bars ☒ N ☐ SIDE ☐ DIAG ☐ MID ☐ SPAN ☐ BR  
Confinement CO Mass Movement H  
Coupling PC Riparian Veg. C  
Valley Flat N C/D Exposed/Eroded NV  
Active Floodplain Visible ☐ Est. Width: Landuse FB  
Channel Pattern ST

## MAPS

Map Type Map # Year  
TRIM 103I.050 1990  
TRIM 103I.040 1990

## AIR PHOTOS

Line Number  
BCB8019 97-200  
BCB8019 94-95

## FEATURES

## PHOTOS

## COMMENTS



# FDIS Site Card

1999/01/22

Reach #

ILP Map #

ILP Number

Site

1-

6106

Watershed Code:

440-256900-03700-26000-0000-0000-000-000-000-000-000

## FEATURE

TRIB ☐ SC ☐ FC ☐ SWP/SLG ☐ FL/BV ☐

## HABITAT QUALITY

| Name               | Comments                                                                                                  |
|--------------------|-----------------------------------------------------------------------------------------------------------|
| OverWinter Habitat | inadequate pools observed                                                                                 |
| Rearing Habitat    | moderate rearing value-pools are relatively infrequent but overall cover is good and gradient is moderate |
| Spawning Habitat   | little/no suitable gravel observed but at confluence with Trapline (bottom of site) there is gravel       |

## PHOTO DOCUMENTATION

| Photo     | Foc | Lg | Dir                           | Comments |
|-----------|-----|----|-------------------------------|----------|
| R 40 F 17 | STD | U  | cascade                       |          |
| R 40 F 18 | STD | D  | channel with LWD across banks |          |
| R 40 F 19 | STD | U  | confluence with Trapline      |          |

## WILDLIFE

| Group | Observations |
|-------|--------------|
| MAM   | moose tracks |

## COMMENT

| Section    | Comments                                                                             |
|------------|--------------------------------------------------------------------------------------|
| CHANNEL    | there is very nice habitat present at confluence with Trapline (4 DV caught in site) |
| MORPHOLOGY | LWD cascades exist along the length of the site                                      |

# FDIS Fish Form

1999/01/22

Reach # 1 ILP Map # ILP #

Watershed Code: 440-256900-03700-26000-0000-0000-000-000-000-000-000

## WATERBODY

Gazetted Name:

Local:

WS Code: 440-256900-03700-26000-0000-0000-000-000-000-000-000

Lake/Stream: S

Waterbody ID:

ILP Map #:

ILP #:

Project ID: 06-ZYMO-000000325-1999

Reach #: 1

Fish Permit #: 34770-20

Date: 1998/10/15

To: 1998/10/15

Agency C172

Crew: MLP/BLW

Resample: ☐

## SITE / METHOD

| Site# | NID Map  | NID # | UTM:Zone/East/North/Mthd | MTD/NO | Temp | Cond | Turbid | Comment |
|-------|----------|-------|--------------------------|--------|------|------|--------|---------|
| 6106  | 103I.050 | 6106  |                          | EF 1   | 4.0  | 60   | C      |         |

## A. GEAR SETTINGS

| Site# | MTD/NO | H/P | Date In    | Time In | Date Out   | Time Out | Comment |
|-------|--------|-----|------------|---------|------------|----------|---------|
| 6106  | EF 1   | 1   | 1998/10/15 | 11:27   | 1998/10/15 | 12:16    |         |

## B. NET/TRAP SPECIFICATIONS

## C. ELECTROFISHER SPECIFICATIONS

| Site# | MTD/NO | H/P | Encl | Sec | Length | Width | Volt | Freq | Pulse | Make       | Model |
|-------|--------|-----|------|-----|--------|-------|------|------|-------|------------|-------|
| 6106  | EF 1   | 1   | O    | 229 | 100.0  | 3.0   | 400  | 70   | 6     | SMITH ROOT | 12B   |

## FISH SUMMARY

| Site# | MTD/NO | H/P | Species | Stage | Age | Total # | Lgth (Min/Max) | FishAct | Comment |
|-------|--------|-----|---------|-------|-----|---------|----------------|---------|---------|
| 6106  | EF 1   | 1   | DV      |       | J   | 3       | 67 93          | R       |         |
| 6106  | EF 1   | 1   | DV      |       | A   | 1       | 115 115        | R       |         |

## INDIVIDUAL FISH DATA

| Site# | MTD/NO | H/P | Species | Length | Weight | Sex | Mat | Age<br>Str/Smpl#/Age | Vch# | Genetic<br>Str/Smpl# | Roll # | Frame# | Comment |
|-------|--------|-----|---------|--------|--------|-----|-----|----------------------|------|----------------------|--------|--------|---------|
| 6106  | EF 1   | 1   | DV      | 67     |        | U   | IM  |                      |      |                      |        |        |         |
| 6106  | EF 1   | 1   | DV      | 115    |        | U   | M   |                      |      |                      |        |        |         |
| 6106  | EF 1   | 1   | DV      | 93     |        | U   | IM  |                      |      |                      | 40     | 16     |         |
| 6106  | EF 1   | 1   | DV      | 76     |        | U   | IM  |                      |      |                      |        |        |         |

## COMMENTS



# FDIS Reach Card

Reach #    ILP Map #    ILP #

1

1999/01/22

Watershed Code: 440-256900-03700-26700-0000-0000-000-000-000-000-000

## PROJECT

Project Name    Skeena Cellulose Fish Inventory    Project Code    06-ZYMO-000000325-1999

Stream Name (gaz.)    CLORE RIVER

Project Watershed Code    440-256900-00000-00000-0000-0000-000-000-000-000-000

## WATERSHED

Reach Watershed Code    440-256900-03700-26700-0000-0000-000-000-000-000-000

ILP Map #    ILP #    Reach #    NID Map #    NID #    UTM(Zone/East/North/Method)

1.0    1031.050    431

Gazetted Name    Local Name    Sample Type    B    Wetland ☐

## SURVEY INFO

Date    1998/09/16    Agency    C172    Crew    MLP/BLW

## ATTRIBUTES

Length (km)    1.10    US Elev    600    DISTURBANCE INDICATORS    O1    B1    B2    B3    D1    D2    D3

DS Elev.    430    Magnitude    17    ☐    ☐    ☐    ☐    ☐    ☐    ☐

Gradient    15.45    Order    3    BGC Zone    CWH    C1    C2    C3    C4    C5    S1    S2    S3    S4    S5

Setting    VW    ☐    ☐    ☐    ☐    ☐    ☐    ☐    ☐    ☐    ☐

Islands    N

Open water    A    Bars    ☒ N    ☐ SIDE    ☐ DIAG    ☐ MID    ☐ SPAN    ☐ BR

Confinement    EN    Mass Movement    H

Coupling    PC    Riparian Veg.    C

Valley Flat    N    C/D    Exposed/Eroded    NV

Active Floodplain    Visible ☐ Est. Width:    Landuse    FB

Channel Pattern    ST

## MAPS

Map Type    Map #    Year

TRIM    1031.050    1990

## AIR PHOTOS

Line    Number

BCB8019    97-200

## FEATURES

## PHOTOS

## COMMENTS

Section    Comments

SAMPLING INFORMATION    this reach was not observed as a defined channel during the ground survey.



# FDIS Site Card

1999/01/22

Watershed Code:

Reach # 1—  
ILP Map #  
ILP Number  
Site 6107  
440-256900-03700-26700-0000-0000-000-000-000-000-000

## PROJECT

Project Name Skeena Cellulose Fish Inventory Project Code 06-ZYMO-000000325-1999  
Stream Name (gaz.) CLORE RIVER  
Project Watershed Code 440-256900-00000-00000-0000-0000-000-000-000-000-000

## WATERSHED

Gazetted Name Local Name  
Watershed Code 440-256900-03700-26700-0000-0000-000-000-000-000-000  
ILP Map# ILP # Reach # 1  
Site # NID Map # NID # UTM(Zone/East/North/Method) Site Lg Method Access Fish Crd?  
6107 1031.050 6107 20 HC H ☐  
Date 1998/10/15 Time 12:24 Agency C172 Crew MLP/BLW Incomplete ☐

## CHANNEL

|                   | method | width | width | width | width | width | width | width | width | width | width |
|-------------------|--------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| Channel Width (m) | T      | 0.6   | 3.0   | 0.4   | 0.3   | 0.2   | 0.3   |       |       |       |       |
| Wetted Width (m)  | T      | 0.6   | 3.0   | 0.4   | 0.3   | 0.2   | 0.3   |       |       |       |       |
| Pool Depth (m)    | MS     | 0.00  | 0.00  | 0.00  | 0.00  | 0.00  | 0.00  |       |       |       |       |

grad grad method  
Method I 6.0 C  
Method II C

Wb Depth .1 .1 .0 Method MS  
Stage ☒ L ☐ M ☐ H  
No Vis.Ch. ☐ Intermittent ☒  
Dw ☐ Tribs. ☐

COVER SWD LWD B C Total DP OV M IV  
S S N D N S T  
LWD F  
DIST E  
LB SHP S  
Texture ☒ F ☐ G ☐ C ☐ B ☐ R ☐ A  
RB SHP S  
Texture ☒ F ☐ G ☐ C ☐ B ☐ R ☐ A

CROWN CLOSURE  
1 1-20%

INTREAM VEG ☐ N ☒ A ☒ M ☒ V  
RIP C  
STG MF  
RIP C  
STG MF

## WATER

FLOOD SIGNS  
NONE Method GE  
Temp Metho T3  
pH Method P1

Req #  
EMS  
Cond. Method: S4  
Turb. ☐ T ☐ M ☒ L ☐ C Method: GE

## MORPHOLOGY

BED MATERIAL Dominant: F Subdom: NA DISTURBANCE INDICATORS O1 B1 B2 B3 D1 D2 D3  
D95: 0.1 D (cm): 0.1 Morph: RP ☐ ☐ ☐ ☐ ☐ ☐ ☐  
Pattern SI C1 C2 C3 C4 C5 S1 S2 S3 S4 S5  
Islands AN ☐ ☐ ☐ ☒ ☐ ☐ ☐ ☐ ☐ ☐  
Bars ☒ N ☐ SIDE ☐ DIAG ☐ MID ☐ SPAN ☐ BR  
Coupling DC  
Confinement UN

FDIS Site Card

1999/01/22

Reach # 1- ILP Map # ILP Number Site 6107

Watershed Code: 440-256900-03700-26700-0000-0000-000-000-000-000-000

FEATURE

TRIB SC FC SWP/SLG FL/BV

HABITAT QUALITY

Name Comments  
Other access is poor and fisheries values are non-existent

PHOTO DOCUMENTATION

| Photo     | Foc | Lg | Dir               | Comments |
|-----------|-----|----|-------------------|----------|
| R 40 F 20 | STD | D  | channel           |          |
| R 40 F 21 | STD | U  | cascade over moss |          |

WILDLIFE

COMMENT

| Section    | Comments                                                                                                                                                                                                                             |
|------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| CHANNEL    | the streambed is entirely organic fines with multiple areas of seepage that are not necessarily connected to each other                                                                                                              |
| MORPHOLOGY | the morphology and character of this stream seem incongruent with the catchment area shown on TRIM but we walked Trapline for 600m u/s from site 6106 with no other channel evident. Recce flight showed no other apparent channels. |
| CHANNEL    | insufficient habitat to shock                                                                                                                                                                                                        |

# FDIS Reach Card

1999/01/22

Reach # 1 ILP Map # 1031.050 ILP # 59

Watershed Code: 000-000000-00000-00000-0000-0000-000-000-000-000-000-000

## PROJECT

Project Name Skeena Cellulose Fish Inventory Project Code 06-ZYMO-000000325-1999  
Stream Name (gaz.) CLORE RIVER  
Project Watershed Code 440-256900-00000-00000-0000-0000-000-000-000-000-000-000

## WATERSHED

Reach Watershed Code 000-000000-00000-00000-0000-0000-000-000-000-000-000-000  
ILP Map # 1031.050 ILP # 59 Reach # 1.0 NID Map # 1031.050 NID # 591 UTM(Zone/East/North/Method)  
Gazetted Name Local Name Sample Type B Wetland ☐

## SURVEY INFO

Date 1998/09/16 Agency C172 Crew MLP/BLW

## ATTRIBUTES

Length (km) .40 US Elev 600 DISTURBANCE INDICATORS O1 B1 B2 B3 D1 D2 D3  
DS Elev. 490 Magnitude 1 C1 C2 C3 C4 C5 S1 S2 S3 S4 S5  
Gradient 27.5 Order 1 BGC Zone CWH  
Setting VW Islands N  
Open water A Bars ☒ N ☐ SIDE ☐ DIAG ☐ MID ☐ SPAN ☐ BR  
Confinement EN Mass Movement H  
Coupling PC Riparian Veg. C  
Valley Flat N C/D Exposed/Eroded NV  
Active Floodplain Visible ☐ Est. Width: Landuse FB  
Channel Pattern ST

## MAPS

Map Type Map # Year  
TRIM 1031.050 1990

## AIR PHOTOS

Line Number  
BCB8019 97-199  
BCB8019 95-97

## FEATURES

## PHOTOS

## COMMENTS

Section Comments  
SAMPLING INFORMATION this reach was observed to have a very wide, disturbed fluvial fan present at the mouth. The channel has disturbed the

# FDIS Site Card

1999/01/22

Watershed Code:

Reach # 1 ILP Map # 1031.050 ILP Number 59 Site 6108  
000-000000-00000-00000-0000-0000-000-000-000-000-000-000

## PROJECT

Project Name Skeena Cellulose Fish Inventory Project Code 06-ZYMO-000000325-1999  
Stream Name (gaz.) CLORE RIVER  
Project Watershed Code 440-256900-00000-00000-0000-0000-000-000-000-000-000-000

## WATERSHED

Gazetted Name Local Name  
Watershed Code 000-000000-00000-00000-0000-0000-000-000-000-000-000-000  
ILP Map# 1031.050 ILP # 59 Reach # 1  
Site # NID Map # NID # UTM(Zone/East/North/Method) Site Lg Method Access Fish Crd?  
6108 1031.050 6108 100 HC H ☐  
Date 1998/10/15 Time 14:14 Agency C172 Crew MLP/BLW Incomplete ☐

## CHANNEL

|                   | method | width | width | width | width | width | width | width | width | width | width |
|-------------------|--------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| Channel Width (m) | T      | 3.8   | 3.4   | 3.3   | 3.2   | 3.3   | 3.1   |       |       |       |       |
| Wetted Width (m)  | T      | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   |       |       |       |       |
| Pool Depth (m)    | MS     | 0.00  | 0.00  | 0.00  | 0.00  | 0.00  | 0.00  |       |       |       |       |

|           | grad | grad | method |
|-----------|------|------|--------|
| Method I  | 6.0  | 3.0  | C      |
| Method II |      |      | C      |

|           | grad | grad | method |
|-----------|------|------|--------|
| Method I  | 6.0  | 3.0  | C      |
| Method II |      |      | C      |

|           | grad | grad | method |
|-----------|------|------|--------|
| Method I  | 6.0  | 3.0  | C      |
| Method II |      |      | C      |

|           | grad | grad | method |
|-----------|------|------|--------|
| Method I  | 6.0  | 3.0  | C      |
| Method II |      |      | C      |

|           | grad | grad | method |
|-----------|------|------|--------|
| Method I  | 6.0  | 3.0  | C      |
| Method II |      |      | C      |

|           | grad | grad | method |
|-----------|------|------|--------|
| Method I  | 6.0  | 3.0  | C      |
| Method II |      |      | C      |

|           | grad | grad | method |
|-----------|------|------|--------|
| Method I  | 6.0  | 3.0  | C      |
| Method II |      |      | C      |

|           | grad | grad | method |
|-----------|------|------|--------|
| Method I  | 6.0  | 3.0  | C      |
| Method II |      |      | C      |

|           | grad | grad | method |
|-----------|------|------|--------|
| Method I  | 6.0  | 3.0  | C      |
| Method II |      |      | C      |

|           | grad | grad | method |
|-----------|------|------|--------|
| Method I  | 6.0  | 3.0  | C      |
| Method II |      |      | C      |

|           | grad | grad | method |
|-----------|------|------|--------|
| Method I  | 6.0  | 3.0  | C      |
| Method II |      |      | C      |

|           | grad | grad | method |
|-----------|------|------|--------|
| Method I  | 6.0  | 3.0  | C      |
| Method II |      |      | C      |

|           | grad | grad | method |
|-----------|------|------|--------|
| Method I  | 6.0  | 3.0  | C      |
| Method II |      |      | C      |

|           | grad | grad | method |
|-----------|------|------|--------|
| Method I  | 6.0  | 3.0  | C      |
| Method II |      |      | C      |

|           | grad | grad | method |
|-----------|------|------|--------|
| Method I  | 6.0  | 3.0  | C      |
| Method II |      |      | C      |

|           | grad | grad | method |
|-----------|------|------|--------|
| Method I  | 6.0  | 3.0  | C      |
| Method II |      |      | C      |

|           | grad | grad | method |
|-----------|------|------|--------|
| Method I  | 6.0  | 3.0  | C      |
| Method II |      |      | C      |

|           | grad | grad | method |
|-----------|------|------|--------|
| Method I  | 6.0  | 3.0  | C      |
| Method II |      |      | C      |

|           | grad | grad | method |
|-----------|------|------|--------|
| Method I  | 6.0  | 3.0  | C      |
| Method II |      |      | C      |

|           | grad | grad | method |
|-----------|------|------|--------|
| Method I  | 6.0  | 3.0  | C      |
| Method II |      |      | C      |

|           | grad | grad | method |
|-----------|------|------|--------|
| Method I  | 6.0  | 3.0  | C      |
| Method II |      |      | C      |

|           | grad | grad | method |
|-----------|------|------|--------|
| Method I  | 6.0  | 3.0  | C      |
| Method II |      |      | C      |

|           | grad | grad | method |
|-----------|------|------|--------|
| Method I  | 6.0  | 3.0  | C      |
| Method II |      |      | C      |

|           | grad | grad | method |
|-----------|------|------|--------|
| Method I  | 6.0  | 3.0  | C      |
| Method II |      |      | C      |

|           | grad | grad | method |
|-----------|------|------|--------|
| Method I  | 6.0  | 3.0  | C      |
| Method II |      |      | C      |

|           | grad | grad | method |
|-----------|------|------|--------|
| Method I  | 6.0  | 3.0  | C      |
| Method II |      |      | C      |

|           | grad | grad | method |
|-----------|------|------|--------|
| Method I  | 6.0  | 3.0  | C      |
| Method II |      |      | C      |

|           | grad | grad | method |
|-----------|------|------|--------|
| Method I  | 6.0  | 3.0  | C      |
| Method II |      |      | C      |

|           | grad | grad | method |
|-----------|------|------|--------|
| Method I  | 6.0  | 3.0  | C      |
| Method II |      |      | C      |

|           | grad | grad | method |
|-----------|------|------|--------|
| Method I  | 6.0  | 3.0  | C      |
| Method II |      |      | C      |

|           | grad | grad | method |
|-----------|------|------|--------|
| Method I  | 6.0  | 3.0  | C      |
| Method II |      |      | C      |

|           | grad | grad | method |
|-----------|------|------|--------|
| Method I  | 6.0  | 3.0  | C      |
| Method II |      |      | C      |

|           | grad | grad | method |
|-----------|------|------|--------|
| Method I  | 6.0  | 3.0  | C      |
| Method II |      |      | C      |

|           | grad | grad | method |
|-----------|------|------|--------|
| Method I  | 6.0  | 3.0  | C      |
| Method II |      |      | C      |

|           | grad | grad | method |
|-----------|------|------|--------|
| Method I  | 6.0  | 3.0  | C      |
| Method II |      |      | C      |

|           | grad | grad | method |
|-----------|------|------|--------|
| Method I  | 6.0  | 3.0  | C      |
| Method II |      |      | C      |

|           | grad | grad | method |
|-----------|------|------|--------|
| Method I  | 6.0  | 3.0  | C      |
| Method II |      |      | C      |

|           | grad | grad | method |
|-----------|------|------|--------|
| Method I  | 6.0  | 3.0  | C      |
| Method II |      |      | C      |

|           | grad | grad | method |
|-----------|------|------|--------|
| Method I  | 6.0  | 3.0  | C      |
| Method II |      |      | C      |

|           | grad | grad | method |
|-----------|------|------|--------|
| Method I  | 6.0  | 3.0  | C      |
| Method II |      |      | C      |

|           | grad | grad | method |
|-----------|------|------|--------|
| Method I  | 6.0  | 3.0  | C      |
| Method II |      |      | C      |

|           | grad | grad | method |
|-----------|------|------|--------|
| Method I  | 6.0  | 3.0  | C      |
| Method II |      |      | C      |

|           | grad | grad | method |
|-----------|------|------|--------|
| Method I  | 6.0  | 3.0  | C      |
| Method II |      |      | C      |

|           | grad | grad | method |
|-----------|------|------|--------|
| Method I  | 6.0  | 3.0  | C      |
| Method II |      |      | C      |

|           | grad | grad | method |
|-----------|------|------|--------|
| Method I  | 6.0  | 3.0  | C      |
| Method II |      |      | C      |

|           | grad | grad | method |
|-----------|------|------|--------|
| Method I  | 6.0  | 3.0  | C      |
| Method II |      |      | C      |

|           | grad | grad | method |
|-----------|------|------|--------|
| Method I  | 6.0  | 3.0  | C      |
| Method II |      |      | C      |

|           | grad | grad | method |
|-----------|------|------|--------|
| Method I  | 6.0  | 3.0  | C      |
| Method II |      |      | C      |

|           | grad | grad | method |
|-----------|------|------|--------|
| Method I  | 6.0  | 3.0  | C      |
| Method II |      |      | C      |

|           | grad | grad | method |
|-----------|------|------|--------|
| Method I  | 6.0  | 3.0  | C      |
| Method II |      |      | C      |

|           | grad | grad | method |
|-----------|------|------|--------|
| Method I  | 6.0  | 3.0  | C      |
| Method II |      |      | C      |

|           | grad | grad | method |
|-----------|------|------|--------|
| Method I  | 6.0  | 3.0  | C      |
| Method II |      |      | C      |

|           | grad | grad | method |
|-----------|------|------|--------|
| Method I  | 6.0  | 3.0  | C      |
| Method II |      |      | C      |

|           | grad | grad | method |
|-----------|------|------|--------|
| Method I  | 6.0  | 3.0  | C      |
| Method II |      |      | C      |

|           | grad | grad | method |
|-----------|------|------|--------|
| Method I  | 6.0  | 3.0  | C      |
| Method II |      |      | C      |

|           | grad | grad | method |
|-----------|------|------|--------|
| Method I  | 6.0  | 3.0  | C      |
| Method II |      |      | C      |

|           | grad | grad | method |
|-----------|------|------|--------|
| Method I  | 6.0  | 3.0  | C      |
| Method II |      |      | C      |

|           | grad | grad | method |
|-----------|------|------|--------|
| Method I  | 6.0  | 3.0  | C      |
| Method II |      |      | C      |

|           | grad | grad | method |
|-----------|------|------|--------|
| Method I  | 6.0  | 3.0  | C      |
| Method II |      |      | C      |

|           | grad | grad | method |
|-----------|------|------|--------|
| Method I  | 6.0  | 3.0  | C      |
| Method II |      |      | C      |

|           | grad | grad | method |
|-----------|------|------|--------|
| Method I  | 6.0  | 3.0  | C      |
| Method II |      |      | C      |

|           | grad | grad | method |
|-----------|------|------|--------|
| Method I  | 6.0  | 3.0  | C      |
| Method II |      |      | C      |

|           | grad | grad | method |
|-----------|------|------|--------|
| Method I  | 6.0  | 3.0  | C      |
| Method II |      |      | C      |

|           | grad | grad | method |
|-----------|------|------|--------|
| Method I  | 6.0  | 3.0  | C      |
| Method II |      |      | C      |

|           | grad | grad | method |
|-----------|------|------|--------|
| Method I  | 6.0  | 3.0  | C      |
| Method II |      |      | C      |

|           | grad | grad | method |
|-----------|------|------|--------|
| Method I  | 6.0  | 3.0  | C      |
| Method II |      |      | C      |

|           | grad | grad | method |
|-----------|------|------|--------|
| Method I  | 6.0  | 3.0  | C      |
| Method II |      |      | C      |

|           | grad | grad | method |
|-----------|------|------|--------|
| Method I  | 6.0  | 3.0  | C      |
| Method II |      |      | C      |

|           | grad | grad | method |
|-----------|------|------|--------|
| Method I  | 6.0  | 3.0  | C      |
| Method II |      |      | C      |

|           | grad | grad | method |
|-----------|------|------|--------|
| Method I  | 6.0  | 3.0  | C      |
| Method II |      |      | C      |

|           | grad | grad | method |
|-----------|------|------|--------|
| Method I  | 6.0  | 3.0  | C      |
| Method II |      |      | C      |

|           | grad | grad | method |
|-----------|------|------|--------|
| Method I  | 6.0  | 3.0  | C      |
| Method II |      |      | C      |

|           | grad | grad | method |
|-----------|------|------|--------|
| Method I  | 6.0  | 3.0  | C      |
| Method II |      |      | C      |

|           | grad | grad | method |
|-----------|------|------|--------|
| Method I  | 6.0  | 3.0  | C      |
| Method II |      |      | C      |

|           | grad | grad | method |
|-----------|------|------|--------|
| Method I  | 6.0  | 3.0  | C      |
| Method II |      |      | C      |

|           | grad | grad | method |
|-----------|------|------|--------|
| Method I  | 6.0  | 3.0  | C      |
| Method II |      |      | C      |

|           | grad | grad | method |
|-----------|------|------|--------|
| Method I  | 6.0  | 3.0  | C      |
| Method II |      |      | C      |

|           | grad | grad | method |
|-----------|------|------|--------|
| Method I  | 6.0  | 3.0  | C      |
| Method II |      |      | C      |

|           | grad | grad | method |
|-----------|------|------|--------|
| Method I  | 6.0  | 3.0  | C      |
| Method II |      |      | C      |

|           | grad | grad | method |
|-----------|------|------|--------|
| Method I  | 6.0  | 3.0  | C      |
| Method II |      |      | C      |

|           | grad | grad | method |
|-----------|------|------|--------|
| Method I  | 6.0  | 3.0  | C      |
| Method II |      |      | C      |

|           | grad | grad | method |
|-----------|------|------|--------|
| Method I  | 6.0  | 3.0  | C      |
| Method II |      |      | C      |

|           | grad | grad | method |
|-----------|------|------|--------|
| Method I  | 6.0  | 3.0  | C      |
| Method II |      |      | C      |

|           | grad | grad | method |
|-----------|------|------|--------|
| Method I  | 6.0  | 3.0  | C      |
| Method II |      |      | C      |

|           | grad | grad | method |
|-----------|------|------|--------|
| Method I  | 6.0  | 3.0  | C      |
| Method II |      |      | C      |

|           | grad | grad | method |
|-----------|------|------|--------|
| Method I  | 6.0  | 3.0  | C      |
| Method II |      |      | C      |

# FDIS Site Card

Reach # ILP Map # ILP Number Site

1— 103I.050 59 6108

1999/01/22

Watershed Code: 000-000000-00000-00000-0000-0000-000-000-000-000-000

## FEATURE

TRIB ☐ SC ☐ FC ☐ SWP/SLG ☐ FL/BV ☐

## HABITAT QUALITY

Name

Comments

Other

poor fisheries values with no gravel for spawning, pools for overwinter and very insignificant cover

## PHOTO DOCUMENTATION

Photo

Foc Lg

Dir

Comments

R 40 F 22 STD U most apparent channel from mouth

R 40 F 23 STD U area of sediment and scour present on LB

R 40 F 24 STD U channel present u/s of disturbed fluvial fan

## WILDLIFE

## COMMENT

Section

Comments

CHANNEL

there is fluvial sediment over an area 30m wide for 30m u/s from the mouth. Very little/no vegetation established aside from small amounts of moss and the large conifers. (see photo 23)

SITE CARD

block boundary ribbon present crossing the channel

SITE CARD

DL #5 @ 350 (0+034) labelled on flagging as an identifier to link the site to the block.

FDIS Reach Card

1999/01/22

Reach #  
1

ILP Map #  
103I.050

ILP #  
56

Watershed Code: 000-000000-00000-00000-0000-0000-000-000-000-000-000-000

PROJECT

Project NameSkeena Cellulose Fish Inventory

Project Code06-ZYMO-000000325-1999

Stream Name (gaz.)CLORE RIVER

Project Watershed Code440-256900-00000-00000-0000-0000-000-000-000-000-000-000

WATERSHED

Reach Watershed Code000-000000-00000-00000-0000-0000-000-000-000-000-000-000

ILP Map #103I.050

ILP #56

Reach #1.0

NID Map #103I.050

NID #561

UTM(Zone/East/North/Method)

Gazetted Name

Local Name

Sample TypeB

Wetland☐

SURVEY INFO

Date1998/09/16

AgencyC172

CrewMLP/BLW

ATTRIBUTES

Length (km).70

US Elev600

DISTURBANCE INDICATORS

O1☐

B1☐

B2☐

B3☐

D1☐

D2☐

D3☐

DS Elev.460

Magnitude1

C1☐

C2☐

C3☐

C4☐

C5☐

S1☐

S2☐

S3☐

S4☐

S5☐

Gradient20

Order1

BGC ZoneCWH

SettingVW

IslandsN

Open waterA

Bars☒N☐SIDE☐DIAG☐MID☐SPAN☐BR

ConfinementEN

Mass MovementH

CouplingCO

Riparian Veg.C

Valley FlatN

C/D

Exposed/ErodedNV

Active FloodplainVisible☐

Est. Width:

LanduseFB

Channel PatternST

MAPS

Map TypeTRIM

Map #103I.050

Year1990

AIR PHOTOS

LineBCB

Number95

BCB8019

95-200

FEATURES

PHOTOS

COMMENTS

Section

Comments

# FDIS Site Card

1999/01/22

Watershed Code:

Reach # 1 ILP Map # 1031.050 ILP Number 56 Site 6109  
000-000000-00000-00000-0000-0000-000-000-000-000-000-000

## PROJECT

Project Name Skeena Cellulose Fish Inventory Project Code 06-ZYMO-000000325-1999  
Stream Name (gaz.) CLORE RIVER  
Project Watershed Code 440-256900-00000-00000-0000-0000-000-000-000-000-000-000

## WATERSHED

Gazetted Name Local Name  
Watershed Code 000-000000-00000-00000-0000-0000-000-000-000-000-000-000  
ILP Map# 1031.050 ILP # 56 Reach # 1  
Site # NID Map # NID # UTM(Zone/East/North/Method) Site Lg Method Access Fish Crd?  
6109 1031.050 6109 100 HC H ☐  
Date 1998/10/15 Time 14:00 Agency C172 Crew MLP/BLW Incomplete ☐

## CHANNEL

method width width width width width width width width width width

Channel Width (m)

Wetted Width (m)

Pool Depth (m)

grad grad method

Method I

Wb Depth

Method MS

Method II

Stage ☐ L ☐ M ☐ H

No Vis.Ch. ☒ Intermittent ☐

Dw ☐ Tribs. ☐

COVER

SWD LWD B C Total DP OV IV

CROWN CLOSURE

LWD

INTREAM VEG ☐ N ☐ A ☐ M ☐ V

DIST

RIP

LB SHP

STG

Texture ☐ F ☐ G ☐ C ☐ B ☐ R ☐ A

RIP

RB SHP

STG

Texture ☐ F ☐ G ☐ C ☐ B ☐ R ☐ A

## WATER

FLOOD SIGNS

Req #

Method

EMS

Temp

Metho

Cond.

Method:

pH

Method

Turb. ☐ T ☐ M ☐ L ☐ C

Method: GE

## MORPHOLOGY

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



# FDIS Site Card

| Reach # | ILP Map # | ILP Number | Site |
|---------|-----------|------------|------|
| 1 -     | 103I.050  | 56         | 6109 |

1999/01/22

Watershed Code: 000-000000-00000-00000-0000-0000-000-000-000-000-000-000

## FEATURE

TRIB ☐ SC ☐ FC ☐ SWP/SLG ☐ FL/BV ☐

## HABITAT QUALITY

## PHOTO DOCUMENTATION

## WILDLIFE

## C O M M E N T

# FDIS Reach Card

1999/01/22

Reach # 1 ILP Map # 103I.050 ILP # 54

Watershed Code: 000-000000-00000-00000-0000-0000-000-000-000-000-000-000

## PROJECT

Project Name Skeena Cellulose Fish Inventory Project Code 06-ZYMO-000000325-1999  
Stream Name (gaz.) CLORE RIVER  
Project Watershed Code 440-256900-00000-00000-0000-0000-000-000-000-000-000-000

## WATERSHED

Reach Watershed Code 000-000000-00000-00000-0000-0000-000-000-000-000-000-000  
ILP Map # 103I.050 ILP # 54 Reach # 1.0 NID Map # 103I.050 NID # 541 UTM(Zone/East/North/Method)  
Gazetted Name Local Name Sample Type B Wetland ☐

## SURVEY INFO

Date 1998/09/16 Agency C172 Crew MLP/BLW

## ATTRIBUTES

Length (km) .40 US Elev 500 DISTURBANCE INDICATORS O1 B1 B2 B3 D1 D2 D3  
DS Elev. 450 Magnitude 1 C1 C2 C3 C4 C5 S1 S2 S3 S4 S5  
Gradient 12.5 Order 1 BGC Zone CWH  
Setting VW Islands N  
Open water A Bars ☒ N ☐ SIDE ☐ DIAG ☐ MID ☐ SPAN ☐ BR  
Confinement EN Mass Movement M  
Coupling CO Riparian Veg. C  
Valley Flat N C/D Exposed/Eroded NV  
Active Floodplain Visible ☐ Est. Width: Landuse FB  
Channel Pattern ST

## MAPS

Map Type Map # Year  
TRIM 103I.050 1990

## AIR PHOTOS

Line Number  
BCB8019 98-200  
BCB8019 95-96

## FEATURES

## PHOTOS

## COMMENTS

Section Comments

# FDIS Site Card

1999/01/22

Watershed Code:

Reach # 1 ILP Map # 103I.050 ILP Number 54 Site 6110  
000-000000-00000-00000-0000-0000-000-000-000-000-000-000

## PROJECT

Project Name Skeena Cellulose Fish Inventory Project Code 06-ZYMO-000000325-1999  
Stream Name (gaz.) CLORE RIVER  
Project Watershed Code 440-256900-00000-00000-0000-0000-000-000-000-000-000-000

## WATERSHED

Gazetted Name Local Name  
Watershed Code 000-000000-00000-00000-0000-0000-000-000-000-000-000-000  
ILP Map# 103I.050 ILP # 54 Reach # 1  
Site # NID Map # NID # UTM(Zone/East/North/Method) Site Lg Method Access Fish Crd?  
6110 103I.050 6110 100 HC H ☐  
Date 1998/10/15 Time 13:55 Agency C172 Crew MLP/BLW Incomplete ☐

## CHANNEL

method width width width width width width width width width width

Channel Width (m)

Wetted Width (m)

Pool Depth (m)

grad grad method

Method I

Wb Depth

Method MS

Method II

Stage ☐ L ☐ M ☐ H

No Vis.Ch. ☒ Intermittent ☐

Dw ☐ Tribs. ☐

COVER

SWD LWD B C Total DP OV IV

CROWN CLOSURE

LWD

INTREAM VEG ☐ N ☐ A ☐ M ☐ V

DIST

RIP

LB SHP

STG

Texture ☐ F ☐ G ☐ C ☐ B ☐ R ☐ A

RIP

RB SHP

STG

Texture ☐ F ☐ G ☐ C ☐ B ☐ R ☐ A

## WATER

FLOOD SIGNS

Req #

Method

EMS

Temp

Metho

Cond.

Method:

pH

Method

Turb. ☐ T ☐ M ☐ L ☐ C

Method: GE

## MORPHOLOGY

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

FDIS Site Card

1999/01/22

Watershed Code:

| Reach #                                                  | ILP Map # | ILP Number | Site |
|----------------------------------------------------------|-----------|------------|------|
| 1                                                        | 103I.050  | 54         | 6110 |
| 000-000000-00000-00000-0000-0000-000-000-000-000-000-000 |           |            |      |

|                               |                             |                             |                                                                 |
|-------------------------------|-----------------------------|-----------------------------|-----------------------------------------------------------------|
| FEATURE                       |                             |                             |                                                                 |
| TRIB <input type="checkbox"/> | SC <input type="checkbox"/> | FC <input type="checkbox"/> | SWP/SLG <input type="checkbox"/> FL/BV <input type="checkbox"/> |
| HABITAT QUALITY               |                             |                             |                                                                 |
| PHOTO DOCUMENTATION           |                             |                             |                                                                 |
| WILDLIFE                      |                             |                             |                                                                 |
| COMMENT                       |                             |                             |                                                                 |

# FDIS Reach Card

1999/01/22

Reach # 1 ILP Map # 103I.050 ILP # 53

Watershed Code: 000-000000-00000-00000-0000-0000-000-000-000-000-000

## PROJECT

Project Name Skeena Cellulose Fish Inventory Project Code 06-ZYMO-000000325-1999  
Stream Name (gaz.) CLORE RIVER  
Project Watershed Code 440-256900-00000-00000-0000-0000-000-000-000-000-000

## WATERSHED

Reach Watershed Code 000-000000-00000-00000-0000-0000-000-000-000-000-000  
ILP Map # 103I.050 ILP # 53 Reach # 1.0 NID Map # 103I.050 NID # 531 UTM(Zone/East/North/Method)  
Gazetted Name Local Name Sample Type B Wetland ☐

## SURVEY INFO

Date 1998/09/16 Agency C172 Crew MLP/BLW

## ATTRIBUTES

Length (km) .80 US Elev 600 DISTURBANCE INDICATORS O1 B1 B2 B3 D1 D2 D3  
DS Elev. 450 Magnitude 1 ☐ ☐ ☐ ☐ ☐ ☐ ☐  
Gradient 18.75 Order -1 BGC Zone CWH C1 C2 C3 C4 C5 S1 S2 S3 S4 S5  
☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐  
Setting VW Islands N  
Open water A Bars ☒ N ☐ SIDE ☐ DIAG ☐ MID ☐ SPAN ☐ BR  
Confinement EN Mass Movement M  
Coupling CO Riparian Veg. C  
Valley Flat N C/D Exposed/Eroded NV  
Active Floodplain Visible ☐ Est. Width: Landuse FB  
Channel Pattern ST

## MAPS

Map Type Map # Year  
TRIM 103I.050 1990

## AIR PHOTOS

Line Number  
BCB8019 96-200  
BCB8019 95-98

## FEATURES

## PHOTOS

## COMMENTS

Section Comments

# FDIS Site Card

1999/01/22

Watershed Code: 000-000000-00000-00000-0000-0000-000-000-000-000-000-000

Reach # 1 ILP Map # 1031.050 ILP Number 53 Site 6111

## PROJECT

Project Name Skeena Cellulose Fish Inventory Project Code 06-ZYMO-000000325-1999  
Stream Name (gaz.) CLORE RIVER  
Project Watershed Code 440-256900-00000-00000-0000-0000-000-000-000-000-000

## WATERSHED

Gazetted Name Local Name  
Watershed Code 000-000000-00000-00000-0000-0000-000-000-000-000-000  
ILP Map# 1031.050 ILP # 53 Reach # 1  
Site # NID Map # NID # UTM(Zone/East/North/Method) Site Lg Method Access Fish Crd?  
6111 1031.050 6111 100 HC H ☐  
Date 1998/10/15 Time 13:50 Agency C172 Crew MLP/BLW Incomplete ☐

## CHANNEL

method width width width width width width width width width width

Channel Width (m)

Wetted Width (m)

Pool Depth (m)

grad grad method

Method I

Wb Depth

Method MS

Method II

Stage ☐ L ☐ M ☐ H

No Vis.Ch. ☒ Intermittent ☐

Dw ☐ Tribs. ☐

COVER SWD LWD B C Total DP OV IV

CROWN CLOSURE

LWD

INTREAM VEG ☐ N ☐ A ☐ M ☐ V

DIST

RIP

LB SHP

STG

Texture ☐ F ☐ G ☐ C ☐ B ☐ R ☐ A

RIP

RB SHP

STG

Texture ☐ F ☐ G ☐ C ☐ B ☐ R ☐ A

## WATER

FLOOD SIGNS

Req #

Method

EMS

Temp

Metho

Cond.

Method:

pH

Method

Turb. ☐ T ☐ M ☐ L ☐ C

Method: GE

## MORPHOLOGY

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

FDIS Site Card

1999/01/22

Watershed Code:

| Reach #                                                  | ILP Map # | ILP Number | Site |
|----------------------------------------------------------|-----------|------------|------|
| 1                                                        | 1031.050  | 53         | 6111 |
| 000-000000-00000-00000-0000-0000-000-000-000-000-000-000 |           |            |      |

|                               |                             |                             |                                                                 |
|-------------------------------|-----------------------------|-----------------------------|-----------------------------------------------------------------|
| FEATURE                       |                             |                             |                                                                 |
| TRIB <input type="checkbox"/> | SC <input type="checkbox"/> | FC <input type="checkbox"/> | SWP/SLG <input type="checkbox"/> FL/BV <input type="checkbox"/> |
| HABITAT QUALITY               |                             |                             |                                                                 |
| PHOTO DOCUMENTATION           |                             |                             |                                                                 |
| WILDLIFE                      |                             |                             |                                                                 |
| COMMENT                       |                             |                             |                                                                 |



# FDIS Reach Card

1999/01/22

Reach # 1 ILP Map # 1031.050 ILP # 60

Watershed Code: 000-000000-00000-00000-0000-0000-000-000-000-000-000-000

## PROJECT

Project Name Skeena Cellulose Fish Inventory Project Code 06-ZYMO-000000325-1999  
Stream Name (gaz.) CLORE RIVER  
Project Watershed Code 440-256900-00000-00000-0000-0000-000-000-000-000-000-000

## WATERSHED

Reach Watershed Code 000-000000-00000-00000-0000-0000-000-000-000-000-000-000  
ILP Map # 1031.050 ILP # 60 Reach # 1.0 NID Map # 1031.050 NID # 601 UTM(Zone/East/North/Method)

Gazetted Name Local Name Sample Type B Wetland ☐

## SURVEY INFO

Date 1998/09/16 Agency C172 Crew MLP/BLW

## ATTRIBUTES

Length (km) 1.00 US Elev 560 DISTURBANCE INDICATORS O1 B1 B2 B3 D1 D2 D3  
DS Elev. 490 Magnitude 17  
Gradient 7 Order 3 BGC Zone CWH C1 C2 C3 C4 C5 S1 S2 S3 S4 S5  
Setting VW Islands N  
Open water A Bars ☒ N ☐ SIDE ☐ DIAG ☐ MID ☐ SPAN ☐ BR  
Confinement CO Mass Movement M  
Coupling DC Riparian Veg. C  
Valley Flat N C/D N Exposed/Eroded NV  
Active Floodplain Visible ☐ Est. Width: Landuse FB  
Channel Pattern ST

## MAPS

Map Type Map # Year  
TRIM 1031.050 1990

## AIR PHOTOS

Line Number  
BCB80199 94-96

## FEATURES

## PHOTOS

## COMMENTS

# FDIS Site Card

1999/01/22

Watershed Code:

| Reach #                                                | ILP Map # | ILP Number | Site |
|--------------------------------------------------------|-----------|------------|------|
| 1                                                      | 1031.050  | 60         | 6112 |
| 000-000000-000000-000000-0000-0000-000-000-000-000-000 |           |            |      |

## PROJECT

|                        |                                                          |              |                        |
|------------------------|----------------------------------------------------------|--------------|------------------------|
| Project Name           | Skeena Cellulose Fish Inventory                          | Project Code | 06-ZYMO-000000325-1999 |
| Stream Name (gaz.)     | CLORE RIVER                                              |              |                        |
| Project Watershed Code | 440-256900-00000-00000-0000-0000-000-000-000-000-000-000 |              |                        |

## WATERSHED

| Gazetted Name                                                       |            |       |                             | Local Name |         |        |                                             |
|---------------------------------------------------------------------|------------|-------|-----------------------------|------------|---------|--------|---------------------------------------------|
| Watershed Code 000-000000-00000-00000-0000-0000-000-000-000-000-000 |            |       |                             |            |         |        |                                             |
| ILP Map#                                                            | 1031.050   |       |                             | ILP #      | 60      |        | Reach # 1                                   |
| Site #                                                              | NID Map #  | NID # | UTM(Zone/East/North/Method) |            | Site Lg | Method | Access Fish Crd?                            |
| 6112                                                                | 1031.050   | 6112  |                             |            | 100     | HC     | H <input type="checkbox"/>                  |
| Date                                                                | 1998/10/15 | Time  | 15:40                       | Agency     | C172    | Crew   | MLP/BWL Incomplete <input type="checkbox"/> |

## CHANNEL

|                   | method | width | width | width | width | width | width | width | width | width | width |
|-------------------|--------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| Channel Width (m) | T      | 8.2   | 7.4   | 7.0   | 6.4   | 6.7   | 6.7   |       |       |       |       |
| Wetted Width (m)  | T      | 0.2   | 0.4   | 0.0   | 0.0   | 0.0   | 0.0   |       |       |       |       |
| Pool Depth (m)    | MS     | 0.13  | 17.00 | 0.22  | 0.21  | 0.12  | 0.10  |       |       |       |       |

[illegible]

| COVER |     |   |   | Total |    | M  |
|-------|-----|---|---|-------|----|----|
| SWD   | LWD | B | C | DP    | OV | IV |
| T     | S   | D | T | N     | T  | N  |

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

**CROWN CLOSURE**

1                      1-20%

**INTREAM VEG**      ☒ N      ☐ A      ☐ M      ☐ V

RIP      C

STG      MF

RIP      C

STG      MF

# WATER

## FLOOD SIGNS

NONE

Temp

pH

|        |    |
|--------|----|
| Method | GE |
|--------|----|

Metho T3

|        |    |
|--------|----|
| Method | P1 |
|--------|----|

Req #

EMS

Cond. 40

Turb. ☐ T ☐ M ☐ L ☒ C

**Method:** S4

**Method:** GE

## MORPHOLOGY

|              |           |         |         |        |    |
|--------------|-----------|---------|---------|--------|----|
| BED MATERIAL | Dominant: | C       | Subdom: | B      |    |
| D95:         | 35        | D (cm): | 20      | Morph: | CP |

| Pattern | ST  |
|---------|-----|
| 1       | 1   |
| 2       | 2   |
| 3       | 3   |
| 4       | 4   |
| 5       | 5   |
| 6       | 6   |
| 7       | 7   |
| 8       | 8   |
| 9       | 9   |
| 10      | 10  |
| 11      | 11  |
| 12      | 12  |
| 13      | 13  |
| 14      | 14  |
| 15      | 15  |
| 16      | 16  |
| 17      | 17  |
| 18      | 18  |
| 19      | 19  |
| 20      | 20  |
| 21      | 21  |
| 22      | 22  |
| 23      | 23  |
| 24      | 24  |
| 25      | 25  |
| 26      | 26  |
| 27      | 27  |
| 28      | 28  |
| 29      | 29  |
| 30      | 30  |
| 31      | 31  |
| 32      | 32  |
| 33      | 33  |
| 34      | 34  |
| 35      | 35  |
| 36      | 36  |
| 37      | 37  |
| 38      | 38  |
| 39      | 39  |
| 40      | 40  |
| 41      | 41  |
| 42      | 42  |
| 43      | 43  |
| 44      | 44  |
| 45      | 45  |
| 46      | 46  |
| 47      | 47  |
| 48      | 48  |
| 49      | 49  |
| 50      | 50  |
| 51      | 51  |
| 52      | 52  |
| 53      | 53  |
| 54      | 54  |
| 55      | 55  |
| 56      | 56  |
| 57      | 57  |
| 58      | 58  |
| 59      | 59  |
| 60      | 60  |
| 61      | 61  |
| 62      | 62  |
| 63      | 63  |
| 64      | 64  |
| 65      | 65  |
| 66      | 66  |
| 67      | 67  |
| 68      | 68  |
| 69      | 69  |
| 70      | 70  |
| 71      | 71  |
| 72      | 72  |
| 73      | 73  |
| 74      | 74  |
| 75      | 75  |
| 76      | 76  |
| 77      | 77  |
| 78      | 78  |
| 79      | 79  |
| 80      | 80  |
| 81      | 81  |
| 82      | 82  |
| 83      | 83  |
| 84      | 84  |
| 85      | 85  |
| 86      | 86  |
| 87      | 87  |
| 88      | 88  |
| 89      | 89  |
| 90      | 90  |
| 91      | 91  |
| 92      | 92  |
| 93      | 93  |
| 94      | 94  |
| 95      | 95  |
| 96      | 96  |
| 97      | 97  |
| 98      | 98  |
| 99      | 99  |
| 100     | 100 |

| Islands | N |
|---------|---|
|---------|---|

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

|          |    |
|----------|----|
| Coupling | DC |
|----------|----|

|             |    |
|-------------|----|
| Confinement | UN |
|-------------|----|

[illegible]

# FDIS Site Card

Reach # ILP Map # ILP Number Site

1 103I.050 60 6112

1999/01/22

Watershed Code: 000-000000-00000-00000-0000-0000-000-000-000-000-000

## FEATURE

| NID Map  | NID  | Type | Hgt  | Method | Lg | Method | Comments                                   |
|----------|------|------|------|--------|----|--------|--------------------------------------------|
| 103I.050 | 7999 | F    | 10.0 | AE     | 0  | AE     | falls located 600m u/s from the mouth of t |

Photo UTM (Zone/East/North) Method  
R F

TRIB ☐ SC ☐ FC ☐ SWP/SLG ☐ FL/BV ☐

## HABITAT QUALITY

| Name               | Comments                                                                                                           |
|--------------------|--------------------------------------------------------------------------------------------------------------------|
| OverWinter Habitat | none                                                                                                               |
| Rearing Habitat    | moderate to poor rearing values. An increase in the flow of the channel would do little to enhance fisheries value |
| Spawning Habitat   | no spawning habitat                                                                                                |

## PHOTO DOCUMENTATION

| Photo     | Foc | Lg | Dir                       | Comments |
|-----------|-----|----|---------------------------|----------|
| R 40 F 25 | STD | U  | with Bryan on log         |          |
| R 40 F 26 | STD | D  | showing dusturbed channel |          |

## WILDLIFE

## COMMENT

| Section   | Comments                                                                                      |
|-----------|-----------------------------------------------------------------------------------------------|
| CHANNEL   | a cascading stream flowing down a steep slope and leveling off before entering Trapline Creek |
| SITE CARD | insufficient water present to shock                                                           |

# FDIS Reach Card

Reach #    ILP Map #    ILP #

1

1999/01/22

Watershed Code: 440-256900-02500-00000-0000-0000-000-000-000-000-000

## PROJECT

Project Name    Skeena Cellulose Fish Inventory    Project Code    06-ZYMO-000000325-1999  
Stream Name (gaz.)    CLORE RIVER  
Project Watershed Code    440-256900-00000-00000-0000-0000-000-000-000-000-000

## WATERSHED

Reach Watershed Code    440-256900-02500-00000-0000-0000-000-000-000-000-000  
ILP Map #    ILP #    Reach #    NID Map #    NID #    UTM(Zone/East/North/Method)  
1.0    103L050    81  
Gazetted Name    Local Name    Sample Type    B    Wetland ☐

## SURVEY INFO

Date    1998/09/16    Agency    C172    Crew    MLP/BLW

## ATTRIBUTES

Length (km)    .30    US Elev    300    DISTURBANCE INDICATORS    O1    B1    B2    B3    D1    D2    D3  
DS Elev.    270    Magnitude    13    ☐    ☐    ☐    ☐    ☐    ☐    ☐  
Gradient    10    Order    3    BGC Zone    CWH    C1    C2    C3    C4    C5    S1    S2    S3    S4    S5  
Setting    VW    ☐    ☐    ☐    ☐    ☐    ☐    ☐    ☐    ☐    ☐  
Islands    N  
Open water    A    Bars    ☒ N    ☐ SIDE    ☐ DIAG    ☐ MID    ☐ SPAN    ☐ BR  
Confinement    CO    Mass Movement    M  
Coupling    PC    Riparian Veg.    C  
Valley Flat    N    C/D    Exposed/Eroded    NV  
Active Floodplain    Visible ☐ Est. Width:    Landuse    NO  
Channel Pattern    ST

## MAPS

Map Type    Map #    Year  
TRIM    103L050    1990  
TRIM    93L041    1990

## AIR PHOTOS

Line    Number  
BCB8019    20-223

## FEATURES

NID Map    103L050    NID:    5003  
Type:    F    Height:    40.0    Method:    AE  
Length:    0    Method:  
Photo:    R    F    Comments:    Estimate from helicopter, no photo  
UTM (Zone/East/North)

# FDIS Site Card

1999/01/22

Watershed Code:

Reach # 1  
ILP Map # 1  
ILP Number 6113  
Site 6113  
440-256900-02500-00000-00000-0000-000-000-000-000-000

## PROJECT

Project Name Skeena Cellulose Fish Inventory Project Code 06-ZYMO-000000325-1999  
Stream Name (gaz.) CLORE RIVER  
Project Watershed Code 440-256900-00000-00000-0000-0000-000-000-000-000-000

## WATERSHED

Gazetted Name Local Name  
Watershed Code 440-256900-02500-00000-0000-0000-000-000-000-000-000  
ILP Map# ILP # Reach # 1  
Site # NID Map # NID # UTM(Zone/East/North/Method) Site Lg Method Access Fish Crd?  
6113 1031.050 6113 100 HC H ☒  
Date 1998/10/16 Time 09:33 Agency C172 Crew MLP/BLW Incomplete ☐

## CHANNEL

|                   | method | width | width | width | width | width | width | width | width | width | width | width |
|-------------------|--------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| Channel Width (m) | T      | 8.4   | 4.6   | 5.1   | 6.1   | 7.6   | 5.4   |       |       |       |       |       |
| Wetted Width (m)  | T      | 5.8   | 2.1   | 2.1   | 4.0   | 3.8   | 3.1   |       |       |       |       |       |
| Pool Depth (m)    | MS     | 0.21  | 0.27  | 0.28  | 0.31  | 0.60  | 0.21  | 0.19  |       |       |       |       |

|           | grad | grad | method |  | Wb Depth   | 1.4                        | 1.6                                   | 1.4                        | Method | MS |
|-----------|------|------|--------|--|------------|----------------------------|---------------------------------------|----------------------------|--------|----|
| Method I  | 12.5 | 16.0 | C      |  | Stage      | <input type="checkbox"/> L | <input checked="" type="checkbox"/> M | <input type="checkbox"/> H |        |    |
| Method II |      |      | C      |  | No Vis.Ch. | <input type="checkbox"/>   | Intermittent                          | <input type="checkbox"/>   |        |    |
|           |      |      |        |  | Dw         | <input type="checkbox"/>   | Tribs.                                | <input type="checkbox"/>   |        |    |

| COVER   | SWD                                   | LWD                        | B                          | C                                     | Total                      | DP                         | OV | A  |
|---------|---------------------------------------|----------------------------|----------------------------|---------------------------------------|----------------------------|----------------------------|----|----|
|         | N                                     | S                          | D                          | N                                     | S                          | T                          | N  | IV |
| LWD     | A                                     |                            |                            |                                       |                            |                            |    |    |
| DIST    | C                                     |                            |                            |                                       |                            |                            |    |    |
| LB SHP  | V                                     |                            |                            |                                       |                            |                            |    |    |
| Texture | <input checked="" type="checkbox"/> F | <input type="checkbox"/> G | <input type="checkbox"/> C | <input checked="" type="checkbox"/> B | <input type="checkbox"/> R | <input type="checkbox"/> A |    |    |
| RB SHP  | V                                     |                            |                            |                                       |                            |                            |    |    |
| Texture | <input checked="" type="checkbox"/> F | <input type="checkbox"/> G | <input type="checkbox"/> C | <input checked="" type="checkbox"/> B | <input type="checkbox"/> R | <input type="checkbox"/> A |    |    |

## CROWN CLOSURE

1 1-20%

INTREAM VEG ☒ N ☐ A ☐ M ☐ V

RIP C

STG MF

RIP C

STG MF

## WATER

### FLOOD SIGNS

NONE Method GE  
Temp 5 Metho T3  
pH 7.8 Method P1

### Req #

EMS

Cond. 50

Method: S4

Turb. ☐ T ☐ M ☐ L ☒ C

Method: GE

## MORPHOLOGY

BED MATERIAL Dominant: B Subdom: G  
D95: 162 D (cm): 61 Morph: CPB

Pattern SI

Islands N

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

Coupling PC

Confinement FC

### DISTURBANCE INDICATORS

| O1                       | B1                       | B2                                  | B3                       | D1                       | D2                                  | D3                                  |
|--------------------------|--------------------------|-------------------------------------|--------------------------|--------------------------|-------------------------------------|-------------------------------------|
| <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> |
| C1                       | C2                       | C3                                  | C4                       | C5                       | S1                                  | S2                                  |
| <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/>            | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/>            | <input type="checkbox"/>            |
| S3                       | S4                       | S5                                  |                          |                          |                                     |                                     |
| <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/>            |                          |                          |                                     |                                     |

# FDIS Site Card

Reach # ILP Map # ILP Number Site

1 —

6113

1999/01/22

Watershed Code:

440-256900-02500-00000-0000-0000-000-000-000-000

## FEATURE

TRIB ☐ SC ☐ FC ☐ SWP/SLG ☐ FL/BV ☐

## HABITAT QUALITY

| Name               | Comments                                                                                |
|--------------------|-----------------------------------------------------------------------------------------|
| OverWinter Habitat | some pools have potential in the primary channel and accessibility to the Clore is good |
| Rearing Habitat    | desirable step-pool type habitat                                                        |
| Spawning Habitat   | patches of gravel present                                                               |

## PHOTO DOCUMENTATION

| Photo | Foc | Lg | Dir | Comments |                                        |
|-------|-----|----|-----|----------|----------------------------------------|
| R 40  | F   | 28 | STD | U        | Bryan shocking-note eroding bank on LB |
| R 40  | F   | 29 | STD | D        | showing LWD-debris jam                 |

## WILDLIFE

## COMMENT

| Section | Comments                                                                                                                                  |
|---------|-------------------------------------------------------------------------------------------------------------------------------------------|
| CHANNEL | the mouth of this channel seems quite dynamic based on eroding bank sections and boulder morphology present outside of the wetted channel |

# FDIS Fish Form

1999/01/22

Reach # 1 ILP Map # ILP #

Watershed Code: 440-256900-02500-00000-0000-0000-000-000-000-000-000-000

## WATERBODY

Gazetted Name:

Local:

WS Code: 440-256900-02500-00000-0000-0000-000-000-000-000-000-000

Lake/Stream: S

Waterbody ID:

ILP Map #:

ILP #:

Project ID: 06-ZYMO-000000325-1999

Reach #: 1

Fish Permit #: 34770-20

Date: 1998/10/16

To: 1998/10/16

Agency C172

Crew: MLP/BLW

Resample: ☐

## SITE / METHOD

| Site# | NID Map  | NID # | UTM:Zone/East/North/Mthd | MTD/NO | Temp | Cond | Turbid | Comment |
|-------|----------|-------|--------------------------|--------|------|------|--------|---------|
| 6113  | 1031.050 | 6113  |                          | EF 1   | 5.0  | 50   | C      |         |

## A. GEAR SETTINGS

| Site# | MTD/NO | H/P | Date In    | Time In | Date Out   | Time Out | Comment |
|-------|--------|-----|------------|---------|------------|----------|---------|
| 6113  | EF 1   | 1   | 1998/10/16 | 09:33   | 1998/10/16 | 09:56    |         |

## B. NET/TRAP SPECIFICATIONS

## C. ELECTROFISHER SPECIFICATIONS

| Site# | MTD/NO | H/P | Encl | Sec | Length | Width | Volt | Freq | Pulse | Make       | Model |
|-------|--------|-----|------|-----|--------|-------|------|------|-------|------------|-------|
| 6113  | EF 1   | 1   | O    | 315 | 100.0  | 3.0   | 300  | 70   | 6     | SMITH ROOT | 12B   |

## FISH SUMMARY

| Site# | MTD/NO | H/P | Species | Stage | Age | Total # | Lgth (Min/Max) | FishAct | Comment |
|-------|--------|-----|---------|-------|-----|---------|----------------|---------|---------|
| 6113  | EF 1   | 1   | RB      | J     |     | 4       | 35 110         | R       |         |

## INDIVIDUAL FISH DATA

| Site# | MTD/NO | H/P | Species | Length | Weight | Sex | Mat | Age<br>Str/Smpl#/Age | Vch# | Genetic<br>Str/Smpl# | Roll # | Frame# | Comment |
|-------|--------|-----|---------|--------|--------|-----|-----|----------------------|------|----------------------|--------|--------|---------|
| 6113  | EF 1   | 1   | RB      | 83     |        | U   | IM  |                      |      |                      | 40     | 27     |         |
| 6113  | EF 1   | 1   | RB      | 41     |        | U   | IM  |                      |      |                      |        |        |         |
| 6113  | EF 1   | 1   | RB      | 110    |        | U   | IM  |                      |      |                      |        |        |         |
| 6113  | EF 1   | 1   | RB      | 35     |        | U   | IM  |                      |      |                      |        |        |         |

## COMMENTS



# FDIS Reach Card

1999/01/22

Reach # ILP Map # ILP #

1 103I.050 25

Watershed Code: 000-000000-00000-00000-0000-0000-000-000-000-000-000-000

## PROJECT

Project Name Skeena Cellulose Fish Inventory Project Code 06-ZYMO-000000325-1999  
Stream Name (gaz.) CLORE RIVER  
Project Watershed Code 440-256900-00000-00000-0000-0000-000-000-000-000-000-000

## WATERSHED

Reach Watershed Code 000-000000-00000-00000-0000-0000-000-000-000-000-000-000  
ILP Map # ILP # Reach # NID Map # NID # UTM(Zone/East/North/Method)  
103I.050 25 1.0 103I.050 251  
Gazetted Name Local Name Sample Type B Wetland ☐

## SURVEY INFO

Date 1998/09/16 Agency C172 Crew MLP/BLW

## ATTRIBUTES

Length (km) .30 US Elev 300 DISTURBANCE O1 B1 B2 B3 D1 D2 D3  
DS Elev. 270 Magnitude 1 INDICATORS ☐ ☐ ☐ ☐ ☐ ☐ ☐  
Gradient 10 Order 1 BGC Zone CWH C1 C2 C3 C4 C5 S1 S2 S3 S4 S5  
Setting VW Islands N  
Open water A Bars ☒ N ☐ SIDE ☐ DIAG ☐ MID ☐ SPAN ☐ BR  
Confinement FC Mass Movement H  
Coupling CO Riparian Veg. C  
Valley Flat N C/D Exposed/Eroded NV  
Active Floodplain Visible ☐ Est. Width: Landuse NO  
Channel Pattern ST

## MAPS

Map Type Map # Year  
TRIM 103I.050 1990

## AIR PHOTOS

Line Number  
BCB8019 00-201  
BCB8019 20-221

## FEATURES

## PHOTOS

## COMMENTS

Section Comments

# FDIS Site Card

1999/01/22

Reach # 1 ILP Map # 1031.050 ILP Number 25 Site 6114  
 Watershed Code: 000-000000-00000-00000-0000-0000-000-000-000-000-000

## PROJECT

Project Name Skeena Cellulose Fish Inventory Project Code 06-ZYMO-000000325-1999  
 Stream Name (gaz.) CLORE RIVER  
 Project Watershed Code 440-256900-00000-00000-0000-0000-000-000-000-000-000

## WATERSHED

Gazetted Name Local Name  
 Watershed Code 000-000000-00000-00000-0000-0000-000-000-000-000-000  
 ILP Map# 1031.050 ILP # 25 Reach # 1  
 Site # NID Map # NID # UTM(Zone/East/North/Method) Site Lg Method Access Fish Crd?  
 6114 1031.050 6114 100 HC H ☐  
 Date 1998/10/16 Time 10:11 Agency C172 Crew MLP/BLW Incomplete ☐

## CHANNEL

method width width width width width width width width width width

Channel Width (m)

Wetted Width (m)

Pool Depth (m)

grad grad method

Method I

Wb Depth

Method MS

Method II

Stage ☐ L ☐ M ☐ H

No Vis.Ch. ☒ Intermittent ☐

Dw ☐ Tribs. ☐

COVER SWD LWD B C Total DP OV IV

CROWN CLOSURE

LWD

INTREAM VEG ☐ N ☐ A ☐ M ☐ V

DIST

RIP

LB SHP

STG

Texture ☐ F ☐ G ☐ C ☐ B ☐ R ☐ A

RIP

RB SHP

STG

Texture ☐ F ☐ G ☐ C ☐ B ☐ R ☐ A

## WATER

FLOOD SIGNS

Req #

Method

EMS

Temp

Metho

Cond.

Method:

pH

Method

Turb. ☐ T ☐ M ☐ L ☐ C

Method: GE

## MORPHOLOGY

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

FDIS Site Card

1999/01/22

Reach #1ILP Map #103I.050ILP Number25Site6114

Watershed Code:000-000000-00000-00000-0000-0000-000-000-000-000-000

FEATURE

TRIB☐SC☐FC☐SWP/SLG☐FL/BV☐

HABITAT QUALITY

PHOTO DOCUMENTATION

WILDLIFE

C O M M E N T

| Section   | Comments                                                                                          |
|-----------|---------------------------------------------------------------------------------------------------|
| SITE CARD | there is a swamp present with clear channel through it and no channel connecting it to the Clore. |

# FDIS Reach Card

1999/01/22

Reach # 1 ILP Map # 93L.031 ILP # 471

Watershed Code: 000-000000-00000-00000-0000-0000-000-000-000-000-000-000

## PROJECT

Project Name Skeena Cellulose Fish Inventory Project Code 06-ZYMO-000000325-1999  
Stream Name (gaz.) CLORE RIVER  
Project Watershed Code 440-256900-00000-00000-0000-0000-000-000-000-000-000-000

## WATERSHED

Reach Watershed Code 000-000000-00000-00000-0000-0000-000-000-000-000-000-000  
ILP Map # 93L.031 ILP # 471 Reach # 1.0 NID Map # 93L.031 NID # 4711 UTM(Zone/East/North/Method)  
Gazetted Name Local Name Sample Type B Wetland ☐

## SURVEY INFO

Date 1998/09/16 Agency C172 Crew MLP/BLW

## ATTRIBUTES

Length (km) 1.40 US Elev 400 DISTURBANCE INDICATORS O1 B1 B2 B3 D1 D2 D3  
DS Elev. 370 Magnitude 3 C1 C2 C3 C4 C5 S1 S2 S3 S4 S5  
Gradient 2.14 Order 2 BGC Zone CWH  
Setting VF Islands N  
Open water A Bars ☒ N ☐ SIDE ☐ DIAG ☐ MID ☐ SPAN ☐ BR  
Confinement OC Mass Movement H  
Coupling DC Riparian Veg. C  
Valley Flat L C/D C Exposed/Eroded NV  
Active Floodplain Visible ☐ Est. Width: Landuse NO  
Channel Pattern IR

## MAPS

Map Type TRIM Map # 93L.041 Year 1990

## AIR PHOTOS

## FEATURES

## PHOTOS

## COMMENTS

Section SAMPLING INFORMATION Comments this reach was observed by the ground crew to be dewatered with well established vascular vegetation in the channel.

# FDIS Site Card

1999/01/22

Watershed Code:

Reach # 1 ILP Map # 93L.031 ILP Number 471 Site 6115  
000-000000-00000-00000-0000-0000-000-000-000-000-000-000

## PROJECT

Project Name Skeena Cellulose Fish Inventory Project Code 06-ZYMO-000000325-1999  
Stream Name (gaz.) CLORE RIVER  
Project Watershed Code 440-256900-00000-00000-0000-0000-000-000-000-000-000-000

## WATERSHED

Gazetted Name Local Name  
Watershed Code 000-000000-00000-00000-0000-0000-000-000-000-000-000-000  
ILP Map# 93L.031 ILP # 471 Reach # 1  
Site # NID Map # NID # UTM(Zone/East/North/Method) Site Lg Method Access Fish Crd?  
6115 93L.031 6115 100 HC H ☐  
Date 1998/10/16 Time 10:43 Agency C172 Crew MLP/BLW Incomplete ☒

## CHANNEL

method width width width width width width width width width width width  
Channel Width (m) T  
Wetted Width (m) T 0.0 0.0 0.0 0.0 0.0 0.0  
Pool Depth (m) MS

grad grad method  
Method I 2.0 C  
Method II C

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

COVER SWD LWD B C DP OV IV

CROWN CLOSURE  
3 41-70%

LWD DIST LB SHP S Texture ☒ F ☐ G ☐ C ☐ B ☐ R ☐ A  
RB SHP S Texture ☒ F ☐ G ☐ C ☐ B ☐ R ☐ A

INTREAM VEG ☐ N ☐ A ☐ M ☐ V  
RIP C  
STG MF  
RIP C  
STG MF

## WATER

FLOOD SIGNS Req #  
NONE Method GE EMS  
Temp Metho T3 Cond. Method: S4  
pH Method P1 Turb. ☐ T ☐ M ☐ L ☐ C Method: GE

## MORPHOLOGY

BED MATERIAL Dominant: F Subdom: NA DISTURBANCE O1 B1 B2 B3 D1 D2 D3  
D95: 0.1 D (cm): 0.1 Morph: RP INDICATORS ☐ ☒ ☐ ☐ ☐ ☐  
Pattern SI C1 C2 C3 C4 C5 S1 S2 S3 S4 S5  
Islands N ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐  
Bars ☐ N ☐ SIDE ☐ DIAG ☐ MID ☐ SPAN ☐ BR  
Coupling DC  
Confinement UN

# FDIS Site Card

1999/01/22

Watershed Code:

|                                                      |           |            |      |
|------------------------------------------------------|-----------|------------|------|
| Reach #                                              | ILP Map # | ILP Number | Site |
| 1—                                                   | 93L.031   | 471        | 6115 |
| 000-000000-00000-00000-0000-0000-000-000-000-000-000 |           |            |      |

## FEATURE

TRIB ☐ SC ☐ FC ☐ SWP/SLG ☐ FL/BV ☐

## HABITAT QUALITY

| Name  | Comments         |
|-------|------------------|
| Other | not fish habitat |

## PHOTO DOCUMENTATION

| Photo | Foc | Lg | Dir | Comments |                               |
|-------|-----|----|-----|----------|-------------------------------|
| R 40  | F   | 30 | STD | U        | showing vegetation in channel |
| R 40  | F   | 31 | STD | D        | mouth of channel              |

## WILDLIFE

## COMMENT

| Section | Comments                                                                                                                                                                                                                                  |
|---------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| CHANNEL | The channel is dewatered and the vascular vegetation present, (ex- 1m tall established cedar tree) indicates that no water has significantly flowed here in years. The depression/channel has entirely silty fines and no fisheries value |

FDIS Reach Card

1999/01/22

Watershed Code:000-000000-00000-00000-0000-0000-000-000-000-000-000

Reach #1ILP Map #93L.031ILP #464

PROJECT

Project NameSkeena Cellulose Fish InventoryProject Code06-ZYMO-000000325-1999

Stream Name (gaz.)CLORE RIVER

Project Watershed Code440-256900-00000-00000-0000-0000-000-000-000-000-000

WATERSHED

Reach Watershed Code000-000000-00000-00000-0000-0000-000-000-000-000-000

ILP Map #93L.031ILP #464Reach #1.0NID Map #93L.031NID #4641UTM(Zone/East/North/Method)

Gazetted NameLocal NameSample Type BWetland

SURVEY INFO

Date1998/09/16AgencyC172CrewMLP/BLW

ATTRIBUTES

Length (km).30US Elev380DISTURBANCE INDICATORSO1B1B2B3D1D2D3

DS Elev.370Magnitude6C1C2C3C4C5S1S2S3S4S5

Gradient3.33Order2BGC ZoneCWH

SettingVFIslandsN

Open waterPBarsN SIDE DIAG MID SPAN BR

ConfinementFCMass MovementM

CouplingDCRiparian Veg.C

Valley FlatLC/D CExposed/ErodedNV

Active FloodplainVisible Est. Width:LanduseNO

Channel PatternSI

MAPS

Map TypeMap #Year

TRIM93L.0311990

AIR PHOTOS

FEATURES

PHOTOS

COMMENTS



# FDIS Site Card

1999/01/22

Watershed Code:

| Reach #                                                  | ILP Map # | ILP Number | Site |
|----------------------------------------------------------|-----------|------------|------|
| 1 --                                                     | 93L.031   | 464        | 6116 |
| 000-000000-00000-00000-0000-0000-000-000-000-000-000-000 |           |            |      |

## PROJECT

|                        |                                                      |              |                        |
|------------------------|------------------------------------------------------|--------------|------------------------|
| Project Name           | Skeena Cellulose Fish Inventory                      | Project Code | 06-ZYMO-000000325-1999 |
| Stream Name (gaz.)     | CLORE RIVER                                          |              |                        |
| Project Watershed Code | 440-256900-00000-00000-0000-0000-000-000-000-000-000 |              |                        |

## WATERSHED

| Gazetted Name  |                                                      | Local Name |                             |         |         |        |         |                                     |
|----------------|------------------------------------------------------|------------|-----------------------------|---------|---------|--------|---------|-------------------------------------|
| Watershed Code | 000-000000-00000-00000-0000-0000-000-000-000-000-000 |            |                             |         |         |        |         |                                     |
| ILP Map#       | 93L.031                                              | ILP #      | 464                         | Reach # | 1       |        |         |                                     |
| Site #         | NID Map #                                            | NID #      | UTM(Zone/East/North/Method) |         | Site Lg | Method | Access  | Fish Crd?                           |
| 6116           | 93L.031                                              | 6116       |                             |         | 100     | HC     | H       | <input checked="" type="checkbox"/> |
| Date           | 1998/10/16                                           | Time       | 11:01                       | Agency  | C172    | Crew   | MLP/BLW | Incomplete <input type="checkbox"/> |

CHANNEL

|                   | method | width | width | width | width | width | width | width | width | width | width |
|-------------------|--------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| Channel Width (m) | T      | 2.7   | 2.4   | 2.8   | 2.7   | 2.6   | 3.1   |       |       |       |       |
| Wetted Width (m)  | T      | 1.5   | 1.7   | 1.7   | 1.6   | 1.5   | 1.6   |       |       |       |       |
| Pool Depth (m)    | MS     | 0.13  | 10.00 | 0.06  | 0.12  | 0.08  | 0.08  |       |       |       |       |

|           | grad | grad | method |            |                            |                                       |                            |                          |    |
|-----------|------|------|--------|------------|----------------------------|---------------------------------------|----------------------------|--------------------------|----|
| Method I  | 1.0  |      | C      | Wb Depth   | .3                         | .2                                    | .3                         | Method                   | MS |
| Method II |      |      | C      | Stage      | <input type="checkbox"/> L | <input checked="" type="checkbox"/> M | <input type="checkbox"/> H |                          |    |
|           |      |      |        | No Vis.Ch. | <input type="checkbox"/>   | Intermittent                          |                            | <input type="checkbox"/> |    |
|           |      |      |        | Dw         | <input type="checkbox"/>   | Tribs.                                |                            | <input type="checkbox"/> |    |

| COVER   |                                       |                                       |                            | Total                      |                            | A                          |             | CROWN CLOSURE                         |                            |                            |                            |
|---------|---------------------------------------|---------------------------------------|----------------------------|----------------------------|----------------------------|----------------------------|-------------|---------------------------------------|----------------------------|----------------------------|----------------------------|
| SWD     | LWD                                   | B                                     | C                          | DP                         | OV                         | IV                         |             |                                       |                            |                            |                            |
| S       | D                                     | N                                     | S                          | N                          | S                          | N                          | 2           | 21-40%                                |                            |                            |                            |
| LWD     | A                                     |                                       |                            |                            |                            |                            | INTREAM VEG | <input checked="" type="checkbox"/> N | <input type="checkbox"/> A | <input type="checkbox"/> M | <input type="checkbox"/> V |
| DIST    | E                                     |                                       |                            |                            |                            |                            | RIP         | C                                     |                            |                            |                            |
| LB SHP  | S                                     |                                       |                            |                            |                            |                            | STG         | MF                                    |                            |                            |                            |
| Texture | <input checked="" type="checkbox"/> F | <input type="checkbox"/> G            | <input type="checkbox"/> C | <input type="checkbox"/> B | <input type="checkbox"/> R | <input type="checkbox"/> A | RIP         | C                                     |                            |                            |                            |
| RB SHP  | S                                     |                                       |                            |                            |                            |                            | STG         | MF                                    |                            |                            |                            |
| Texture | <input checked="" type="checkbox"/> F | <input checked="" type="checkbox"/> G | <input type="checkbox"/> C | <input type="checkbox"/> B | <input type="checkbox"/> R | <input type="checkbox"/> A |             |                                       |                            |                            |                            |

WATER

|             |     |        |    |       |                                                                                                                        |         |    |
|-------------|-----|--------|----|-------|------------------------------------------------------------------------------------------------------------------------|---------|----|
| FLOOD SIGNS |     |        |    | Req # |                                                                                                                        |         |    |
| NONE        |     | Method | GE | EMS   |                                                                                                                        |         |    |
| Temp        | 5   | Metho  | T3 | Cond. | 150                                                                                                                    | Method: | S4 |
| pH          | 8.0 | Method | P1 | Turb. | <input type="checkbox"/> T <input type="checkbox"/> M <input type="checkbox"/> L <input checked="" type="checkbox"/> C | Method: | GE |

## MORPHOLOGY

|              |                            |                                          |                               |                              |                               |                             |                          |                          |                          |                          |                          |                          |                          |                          |                          |
|--------------|----------------------------|------------------------------------------|-------------------------------|------------------------------|-------------------------------|-----------------------------|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|
| BED MATERIAL |                            |                                          | Dominant: G                   | Subdom: F                    | DISTURBANCE INDICATORS        |                             | O1                       | B1                       | B2                       | B3                       | D1                       | D2                       | D3                       |                          |                          |
| D95:         | 8                          | D (cm):                                  | 3                             | 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"/> |
| Bars         | <input type="checkbox"/> N | <input checked="" type="checkbox"/> SIDE | <input type="checkbox"/> DIAG | <input type="checkbox"/> MID | <input type="checkbox"/> SPAN | <input type="checkbox"/> BR |                          |                          |                          |                          |                          |                          |                          |                          |                          |
| Coupling     | DC                         |                                          |                               |                              |                               |                             |                          |                          |                          |                          |                          |                          |                          |                          |                          |
| Confinement  | UN                         |                                          |                               |                              |                               |                             |                          |                          |                          |                          |                          |                          |                          |                          |                          |

# FDIS Site Card

1999/01/22

Watershed Code:

|                                                      |           |            |      |
|------------------------------------------------------|-----------|------------|------|
| Reach #                                              | ILP Map # | ILP Number | Site |
| 1                                                    | 93L.031   | 464        | 6116 |
| 000-000000-00000-00000-0000-0000-000-000-000-000-000 |           |            |      |

## FEATURE

TRIB ☐ SC ☐ FC ☐ SWP/SLG ☐ FL/BV ☐

## HABITAT QUALITY

| Name               | Comments                                                                                                  |
|--------------------|-----------------------------------------------------------------------------------------------------------|
| OverWinter Habitat | insufficient pools                                                                                        |
| Rearing Habitat    | nice habitat for small residents and juvenile anadromous-access to the mainstem is good and cover is good |
| Spawning Habitat   | gravel is present                                                                                         |

## PHOTO DOCUMENTATION

| Photo     | Foc | Lg | Dir                        | Comments |
|-----------|-----|----|----------------------------|----------|
| R 40 F 33 | STD | U  | Bryan shocking             |          |
| R 40 F 34 | STD | D  | LWD and SWD across channel |          |

## WILDLIFE

## COMMENT

# FDIS Fish Form

1999/01/22

Reach # 1 ILP Map # 93L.031 ILP # 464

Watershed Code: 000-000000-00000-00000-0000-0000-000-000-000-000-000-000

## WATERBODY

Gazetted Name:

Local:

WS Code: 000-000000-00000-00000-0000-0000-000-000-000-000-000-000

Lake/Stream: S

Waterbody ID:

ILP Map #: 93L.031

ILP #: 464

Project ID:

06-ZYMO-000000325-1999

Reach #: 1

Fish Permit #: 34770-20

Date: 1998/10/16

To: 1998/10/16

Agency C172

Crew: MLP/BLW

Resample: ☐

## SITE / METHOD

| Site# | NID Map | NID # | UTM:Zone/East/North/Mthd | MTD/NO | Temp | Cond | Turbid | Comment |
|-------|---------|-------|--------------------------|--------|------|------|--------|---------|
| 6116  | 93L.031 | 6116  |                          | EF 1   | 5.0  | 150  | C      |         |

## A. GEAR SETTINGS

| Site# | MTD/NO | H/P | Date In    | Time In | Date Out   | Time Out | Comment |
|-------|--------|-----|------------|---------|------------|----------|---------|
| 6116  | EF 1   | 1   | 1998/10/16 | 11:04   | 1998/10/16 | 11:18    |         |

## B. NET/TRAP SPECIFICATIONS

## C. ELECTROFISHER SPECIFICATIONS

| Site# | MTD/NO | H/P | Encl | Sec | Length | Width | Volt | Freq | Pulse | Make       | Model |
|-------|--------|-----|------|-----|--------|-------|------|------|-------|------------|-------|
| 6116  | EF 1   | 1   | O    | 190 | 100.0  | 1.5   | 300  | 70   | 6     | SMITH ROOT | 12B   |

## FISH SUMMARY

| Site# | MTD/NO | H/P | Species | Stage | Age | Total # | Lgth (Min/Max) | FishAct | Comment |
|-------|--------|-----|---------|-------|-----|---------|----------------|---------|---------|
| 6116  | EF 1   | 1   | DV      | J     |     | 2       | 78 92          | R       |         |

## INDIVIDUAL FISH DATA

| Site# | MTD/NO | H/P | Species | Length | Weight | Sex | Mat | Age<br>Str/Smpl#/Age | Vch# | Genetic<br>Str/Smpl# | Roll # | Frame# | Comment |
|-------|--------|-----|---------|--------|--------|-----|-----|----------------------|------|----------------------|--------|--------|---------|
| 6116  | EF 1   | 1   | DV      | 78     |        | U   | IM  |                      |      |                      | 40     | 32     |         |
| 6116  | EF 1   | 1   | DV      | 92     |        | U   | IM  |                      |      |                      |        |        |         |

## COMMENTS

# FDIS Reach Card

1999/01/22

Reach # ILP Map # ILP #

1

Watershed Code: 440-256900-25600-00000-00000-0000-000-000-000-000-000

## PROJECT

Project Name Skeena Cellulose Fish Inventory Project Code 06-ZYMO-000000325-1999  
Stream Name (gaz.) CLORE RIVER  
Project Watershed Code 440-256900-00000-00000-0000-0000-000-000-000-000-000

## WATERSHED

Reach Watershed Code 440-256900-25600-00000-00000-0000-000-000-000-000-000  
ILP Map # ILP # Reach # NID Map # NID # UTM(Zone/East/North/Method)  
1.0 93L.031 4791  
Gazetted Name Local Name Sample Type B Wetland ☐

## SURVEY INFO

Date 1998/09/16 Agency C172 Crew MLP/BLW

## ATTRIBUTES

Length (km) .50 US Elev 420 DISTURBANCE O1 B1 B2 B3 D1 D2 D3  
INDICATORS ☐ ☐ ☐ ☐ ☐ ☐ ☐  
DS Elev. 370 Magnitude 10 C1 C2 C3 C4 C5 S1 S2 S3 S4 S5  
Gradient 10 Order 3 BGC Zone CWH ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐  
Setting VF Islands N  
Open water A Bars ☒ N ☐ SIDE ☐ DIAG ☐ MID ☐ SPAN ☐ BR  
Confinement OC Mass Movement M  
Coupling DC Riparian Veg. C  
Valley Flat B C/D D Exposed/Eroded NV  
Active Floodplain Visible ☐ Est. Width: Landuse NO  
Channel Pattern SI

## MAPS

Map Type Map # Year  
TRIM 93L.031 1990

## AIR PHOTOS

## FEATURES

## PHOTOS

## COMMENTS

# FDIS Site Card

1999/01/22

Watershed Code:

Reach # 1- ILP Map # ILP Number Site 6117  
440-256900-25600-00000-0000-0000-000-000-000-000-000

## PROJECT

Project Name Skeena Cellulose Fish Inventory Project Code 06-ZYMO-000000325-1999  
Stream Name (gaz.) CLORE RIVER  
Project Watershed Code 440-256900-00000-00000-0000-0000-000-000-000-000-000

## WATERSHED

Gazetted Name Local Name  
Watershed Code 440-256900-25600-00000-0000-0000-000-000-000-000-000  
ILP Map# ILP # Reach # 1  
Site # NID Map # NID # UTM(Zone/East/North/Method) Site Lg Method Access Fish Crd?  
6117 93L.031 6117 100 HC H ☒  
Date 1998/10/16 Time 11:58 Agency C172 Crew MLP/BLW Incomplete ☐

## CHANNEL

|                   | method | width | width | width | width | width | width | width | width | width | width | width |
|-------------------|--------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| Channel Width (m) | T      | 8.3   | 7.4   | 6.9   | 7.3   | 8.4   | 7.2   |       |       |       |       |       |
| Wetted Width (m)  | T      | 2.4   | 2.6   | 2.8   | 3.1   | 2.9   | 2.9   |       |       |       |       |       |
| Pool Depth (m)    | MS     | 0.42  | 0.26  | 0.18  | 0.20  | 0.25  | 0.41  |       |       |       |       |       |

|           | grad | grad | method |            |                            |                                       |                            |                          |    |  |  |  |
|-----------|------|------|--------|------------|----------------------------|---------------------------------------|----------------------------|--------------------------|----|--|--|--|
| Method I  | 7.0  |      | C      | Wb Depth   | 1.4                        | 1.4                                   | 1.4                        | Method                   | MS |  |  |  |
| Method II |      |      | C      | Stage      | <input type="checkbox"/> L | <input checked="" type="checkbox"/> M | <input type="checkbox"/> H |                          |    |  |  |  |
|           |      |      |        | No Vis.Ch. | <input type="checkbox"/>   |                                       | Intermittent               | <input type="checkbox"/> |    |  |  |  |
|           |      |      |        | Dw         | <input type="checkbox"/>   |                                       | Tribs.                     | <input type="checkbox"/> |    |  |  |  |

| COVER   | LWD                                   | B                          | C                                     | Total                      | M                          |                            |  |  |  |  |  |  |
|---------|---------------------------------------|----------------------------|---------------------------------------|----------------------------|----------------------------|----------------------------|--|--|--|--|--|--|
| SWD     | LWD                                   | B                          | C                                     | DP                         | OV                         | IV                         |  |  |  |  |  |  |
| T       | S                                     | D                          | T                                     | S                          | T                          | N                          |  |  |  |  |  |  |
| LWD     | A                                     |                            |                                       |                            |                            |                            |  |  |  |  |  |  |
| DIST    | E                                     |                            |                                       |                            |                            |                            |  |  |  |  |  |  |
| LB SHP  | O                                     |                            |                                       |                            |                            |                            |  |  |  |  |  |  |
| Texture | <input checked="" type="checkbox"/> F | <input type="checkbox"/> G | <input checked="" type="checkbox"/> C | <input type="checkbox"/> B | <input type="checkbox"/> R | <input type="checkbox"/> A |  |  |  |  |  |  |
| RB SHP  | V                                     |                            |                                       |                            |                            |                            |  |  |  |  |  |  |
| Texture | <input checked="" type="checkbox"/> F | <input type="checkbox"/> G | <input checked="" type="checkbox"/> C | <input type="checkbox"/> B | <input type="checkbox"/> R | <input type="checkbox"/> A |  |  |  |  |  |  |

| CROWN CLOSURE | 1                                     |                            |                            |                            |  |  |  |  |  |  |  |  |
|---------------|---------------------------------------|----------------------------|----------------------------|----------------------------|--|--|--|--|--|--|--|--|
|               |                                       |                            |                            |                            |  |  |  |  |  |  |  |  |
| INTREAM VEG   | <input checked="" type="checkbox"/> N | <input type="checkbox"/> A | <input type="checkbox"/> M | <input type="checkbox"/> V |  |  |  |  |  |  |  |  |
| RIP           | C                                     |                            |                            |                            |  |  |  |  |  |  |  |  |
| STG           | MF                                    |                            |                            |                            |  |  |  |  |  |  |  |  |
| RIP           | C                                     |                            |                            |                            |  |  |  |  |  |  |  |  |
| STG           | MF                                    |                            |                            |                            |  |  |  |  |  |  |  |  |

## WATER

FLOOD SIGNS Req #  
RAFTED LWD AND SWD Method GE EMS  
Temp Metho T3 Cond. 50 Method: S4  
pH 7.9 Method P1 Turb. ☐ T ☐ M ☐ L ☒ C Method: GE

## MORPHOLOGY

BED MATERIAL Dominant: B Subdom: C DISTURBANCE INDICATORS O1 B1 B2 B3 D1 D2 D3  
D95: 147 D (cm): 51 Morph: CPB ☐ ☐ ☒ ☒ ☐ ☐ ☐  
Pattern SI C1 C2 C3 C4 C5 S1 S2 S3 S4 S5  
Islands N ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐  
Bars ☐ N ☒ SIDE ☐ DIAG ☒ MID ☐ SPAN ☐ BR  
Coupling DC  
Confinement FC

# FDIS Site Card

1999/01/22

Reach #

ILP Map #

ILP Number

Site

1-

6117

Watershed Code:

440-256900-25600-00000-0000-0000-000-000-000-000-000

## FEATURE

TRIB ☐

SC ☐

FC ☐

SWP/SLG ☐

FL/BV ☐

## HABITAT QUALITY

Name

Comments

OverWinter Habitat

unimpeded access to the Clore is available

Rearing Habitat

nice RB step pools- fairly swift water with boulder eddies and pools

Spawning Habitat

gravel present but large and angular

## PHOTO DOCUMENTATION

Photo

Foc Lg

Dir

Comments

R 40

F

36

STD

U

large moss covered log across the channel banks

## WILDLIFE

## COMMENT

Section

Comments

SITE CARD

this site was substituted for LP505 due to inaccessibility of 505)

MORPHOLOGY

small organic falls (>1m) exist ant u/s ind of site-possible non-permanent barrier. (definite obstruction)

# FDIS Fish Form

1999/01/22

Reach # ILP Map # ILP #  
1

Watershed Code: 440-256900-25600-00000-0000-0000-000-000-000-000-000

## WATERBODY

Gazetted Name: Local:  
WS Code: 440-256900-25600-00000-0000-0000-000-000-000-000-000 Lake/Stream: S  
Waterbody ID: ILP Map #: ILP #:  
Project ID: 06-ZYMO-000000325-1999 Reach #: 1

Fish Permit #: 34770-20 Date: 1998/10/16 To: 1998/10/16 Agency C172 Crew: MLP/BLW Resample: ☐

## SITE / METHOD

| Site# | NID Map | NID # | UTM:Zone/East/North/Mthd | MTD/NO | Temp | Cond | Turbid | Comment |
|-------|---------|-------|--------------------------|--------|------|------|--------|---------|
| 6117  | 93L.031 | 6117  |                          | EF 1   | 4.0  | 50   | C      |         |

## A. GEAR SETTINGS

| Site# | MTD/NO | H/P | Date In    | Time In | Date Out   | Time Out | Comment |
|-------|--------|-----|------------|---------|------------|----------|---------|
| 6117  | EF 1   | 1   | 1998/10/16 | 11:58   | 1998/10/16 | 12:20    |         |

## B. NET/TRAP SPECIFICATIONS

## C. ELECTROFISHER SPECIFICATIONS

| Site# | MTD/NO | H/P | Encl | Sec | Length | Width | Volt | Freq | Pulse | Make       | Model |
|-------|--------|-----|------|-----|--------|-------|------|------|-------|------------|-------|
| 6117  | EF 1   | 1   | O    | 379 | 100.0  | 2.6   | 300  | 70   | 6     | SMITH ROOT | 12B   |

## FISH SUMMARY

| Site# | MTD/NO | H/P | Species | Stage | Age | Total # | Lgth (Min/Max) | FishAct | Comment |
|-------|--------|-----|---------|-------|-----|---------|----------------|---------|---------|
| 6117  | EF 1   | 1   | RB      | J     |     | 1       | 110 110        | R       |         |

## INDIVIDUAL FISH DATA

| Site# | MTD/NO | H/P | Species | Length | Weight | Sex | Mat | Age<br>Str/Smpl#/Age | Vch# | Genetic<br>Str/Smpl# | Roll # | Frame# | Comment |
|-------|--------|-----|---------|--------|--------|-----|-----|----------------------|------|----------------------|--------|--------|---------|
| 6117  | EF 1   | 1   | RB      | 110    |        | U   | IM  |                      |      |                      | 40     | 35     |         |

## COMMENTS



# FDIS Reach Card

1999/01/22

Reach # 3  
ILP Map #  
ILP #

Watershed Code: 440-256900-07000-00000-00000-00000-000-000-000-000-000-000

## PROJECT

Project Name Skeena Cellulose Fish Inventory Project Code 06-ZYMO-000000325-1999  
Stream Name (gaz.) CLORE RIVER  
Project Watershed Code 440-256900-00000-00000-00000-00000-000-000-000-000-000-000

## WATERSHED

Reach Watershed Code 440-256900-07000-00000-00000-00000-000-000-000-000-000-000  
ILP Map # ILP # Reach # NID Map # NID # UTM(Zone/East/North/Method)  
3.0 1031.040 70003  
Gazetted Name Local Name Sample Type B Wetland ☐  
MORaine CREEK

## SURVEY INFO

Date 1998/09/16 Agency C172 Crew MLP/BLW

## ATTRIBUTES

Length (km) 1.30 US Elev 720 DISTURBANCE O1 B1 B2 B3 D1 D2 D3  
INDICATORS ☐ ☐ ☐ ☐ ☐ ☐ ☐  
DS Elev. 620 Magnitude 56 C1 C2 C3 C4 C5 S1 S2 S3 S4 S5  
Gradient 7.69 Order 3 BGC Zone CWH ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐  
Setting VF Islands N  
Open water A Bars ☒ N ☐ SIDE ☐ DIAG ☐ MID ☐ SPAN ☐ BR  
Confinement EN Mass Movement H  
Coupling CO Riparian Veg. C  
Valley Flat N C/D Exposed/Eroded NV  
Active Floodplain Visible ☐ Est. Width: Landuse FB  
Channel Pattern ST

## MAPS

Map Type Map # Year  
TRIM 1031.040 1990

## AIR PHOTOS

Line Number  
BCB8019 54-56

## FEATURES

## PHOTOS

## COMMENTS

# FDIS Site Card

1999/01/22

Watershed Code:

Reach # 3- ILP Map # ILP Number 6118  
440-256900-07000-00000-00000-00000-00000-00000-00000-00000

## PROJECT

Project Name Skeena Cellulose Fish Inventory Project Code 06-ZYMO-000000325-1999  
Stream Name (gaz.) CLORE RIVER  
Project Watershed Code 440-256900-00000-00000-00000-00000-00000-00000-00000-00000

## WATERSHED

Gazetted Name MORAINE CREEK Local Name  
Watershed Code 440-256900-07000-00000-00000-00000-00000-00000-00000-00000  
ILP Map# ILP # Reach # 3  
Site # NID Map # NID # UTM(Zone/East/North/Method) Site Lg Method Access Fish Crd?  
6118 1031.040 6118 100 HC H ☒  
Date 1998/10/19 Time 10:49 Agency C172 Crew MLP/BLW Incomplete ☐

## CHANNEL

|                   | method | width | width | width | width | width | width | width | width | width | width | width |
|-------------------|--------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| Channel Width (m) | T      | 10.6  | 9.4   | 12.1  | 10.1  | 9.7   | 8.1   |       |       |       |       |       |
| Wetted Width (m)  | T      | 2.7   | 6.2   | 5.2   | 6.8   | 6.1   | 5.0   |       |       |       |       |       |
| Pool Depth (m)    | MS     | 0.50  | 0.41  | 0.23  | 0.21  | 0.13  | 0.16  |       |       |       |       |       |

|           | grad | grad | method |  | Wb Depth   | 1.2                        | 1.3                                   | 1.3                        | Method | MS |
|-----------|------|------|--------|--|------------|----------------------------|---------------------------------------|----------------------------|--------|----|
| Method I  | 5.0  | 6.0  | C      |  | Stage      | <input type="checkbox"/> L | <input checked="" type="checkbox"/> M | <input type="checkbox"/> H |        |    |
| Method II |      |      | C      |  | No Vis.Ch. | <input type="checkbox"/>   | Intermittent                          | <input type="checkbox"/>   |        |    |
|           |      |      |        |  | Dw         | <input type="checkbox"/>   | Tribs.                                | <input type="checkbox"/>   |        |    |

| COVER   | SWD                        | LWD                        | B                                     | C                          | Total                      | DP                         | OV | M | IV |
|---------|----------------------------|----------------------------|---------------------------------------|----------------------------|----------------------------|----------------------------|----|---|----|
|         | N                          | S                          | D                                     | N                          | S                          | T                          | N  |   |    |
| LWD     | A                          |                            |                                       |                            |                            |                            |    |   |    |
| DIST    | C                          |                            |                                       |                            |                            |                            |    |   |    |
| LB SHP  | V                          |                            |                                       |                            |                            |                            |    |   |    |
| Texture | <input type="checkbox"/> F | <input type="checkbox"/> G | <input checked="" type="checkbox"/> C | <input type="checkbox"/> B | <input type="checkbox"/> R | <input type="checkbox"/> A |    |   |    |
| RB SHP  | V                          |                            |                                       |                            |                            |                            |    |   |    |
| Texture | <input type="checkbox"/> F | <input type="checkbox"/> G | <input checked="" type="checkbox"/> C | <input type="checkbox"/> B | <input type="checkbox"/> R | <input type="checkbox"/> A |    |   |    |

## CROWN CLOSURE

1 1-20%

INTREAM VEG ☐ N ☐ A ☒ M ☐ V

RIP C

STG MF

RIP C

STG MF

## WATER

### FLOOD SIGNS

RAFTED SWD AND LWD Method GE  
Temp 4 Metho T3  
pH 7.8 Method P1

### Req #

### EMS

Cond. 10 Method: S4  
Turb. ☐ T ☐ M ☐ L ☒ C Method: GE

## MORPHOLOGY

BED MATERIAL Dominant: B Subdom: C  
D95: 127 D (cm): 41 Morph: CPB

### DISTURBANCE INDICATORS

| 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 checked="" 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"/> |

Pattern IR

Islands N

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

Coupling CO

Confinement CO

# FDIS Site Card

Reach #    ILP Map #    ILP Number    Site

3—

6118

1999/01/22

Watershed Code:

440-256900-07000-00000-0000-0000-000-000-000-000-000

## FEATURE

TRIB ☐    SC ☐    FC ☐    SWP/SLG ☐    FL/BV ☐

## HABITAT QUALITY

| Name               | Comments                                           |
|--------------------|----------------------------------------------------|
| OverWinter Habitat | no pools >1m present                               |
| Rearing Habitat    | moderate ot good with moderate slope cascade pools |
| Spawning Habitat   | infrequent patches of gravel observed              |

## PHOTO DOCUMENTATION

| Photo |     | Foc | Lg | Dir | Comments                         |
|-------|-----|-----|----|-----|----------------------------------|
| R 41  | F 1 | STD |    | D   | Bryan and metre stick in channel |
| R 41  | F 2 | STD |    | U   | bend in channel at POT of site   |

## WILDLIFE

## C O M M E N T

| Section   | Comments                                                                                          |
|-----------|---------------------------------------------------------------------------------------------------|
| SITE CARD | no fish capture-background information check also shows no fish in the reach. D/S barriers exist. |

# FDIS Fish Form

Reach #    ILP Map #    ILP #  
3

1999/01/22

Watershed Code:    440-256900-07000-00000-0000-0000-000-000-000-000-000

## WATER BODY

Gazetted Name:    MORAINE CREEK    Local:  
WS Code:    440-256900-07000-00000-0000-0000-000-000-000-000-000    Lake/Stream: S  
Waterbody ID:    ILP Map #:    ILP #:  
Project ID:    06-ZYMO-000000325-1999    Reach #: 3

Fish Permit #: 34770-20    Date: 1998/10/19    To: 1998/10/19    Agency C172    Crew: MLP/BLW    Resample: ☐

## SITE / METHOD

| Site# | NID Map  | NID # | UTM:Zone/East/North/Mthd | MTD/NO | Temp | Cond | Turbid | Comment |
|-------|----------|-------|--------------------------|--------|------|------|--------|---------|
| 6118  | 103I.040 | 6118  |                          | EF 1   | 4.0  | 10   | C      |         |

## A. GEAR SETTINGS

| Site# | MTD/NO | H/P | Date In    | Time In | Date Out   | Time Out | Comment |
|-------|--------|-----|------------|---------|------------|----------|---------|
| 6118  | EF 1   | 1   | 1998/10/19 | 10:49   | 1998/10/19 | 11:21    |         |

## B. NET/TRAP SPECIFICATIONS

## C. ELECTROFISHER SPECIFICATIONS

| Site# | MTD/NO | H/P | Encl | Sec | Length | Width | Volt | Freq | Pulse | Make       | Model |
|-------|--------|-----|------|-----|--------|-------|------|------|-------|------------|-------|
| 6118  | EF 1   | 1   | O    | 431 | 100.0  | 5.5   | 400  | 70   | 6     | SMITH ROOT | 12B   |

## FISH SUMMARY

| Site# | MTD/NO | H/P | Species | Stage | Age | Total # | Lgth (Min/Max) | FishAct | Comment |
|-------|--------|-----|---------|-------|-----|---------|----------------|---------|---------|
| 6118  | EF     | 1 1 | NFC     |       |     | 0       |                |         |         |

## INDIVIDUAL FISH DATA

## COMMENTS

# FDIS Reach Card

Reach # 2  
ILP Map #  
ILP #

1999/01/22

Watershed Code: 440-256900-18900-00000-00000-0000-000-000-000-000-000

## PROJECT

Project Name Skeena Cellulose Fish Inventory Project Code 06-ZYMO-000000325-1999  
Stream Name (gaz.) CLORE RIVER  
Project Watershed Code 440-256900-00000-00000-00000-0000-000-000-000-000-000

## WATERSHED

Reach Watershed Code 440-256900-18900-00000-00000-0000-000-000-000-000-000  
ILP Map # ILP # Reach # NID Map # NID # UTM(Zone/East/North/Method)  
2.0 1031.040 18902

Gazetted Name Local Name Sample Type B Wetland ☐  
THOMAS CREEK

## SURVEY INFO

Date 1998/09/16 Agency C172 Crew MLP/BLW

## ATTRIBUTES

Length (km) 5.00 US Elev 455 DISTURBANCE INDICATORS O1 B1 B2 B3 D1 D2 D3  
DS Elev. 375 Magnitude 91  
Gradient 1.6 Order 5 BGC Zone CWH C1 C2 C3 C4 C5 S1 S2 S3 S4 S5  
Setting VF Islands O  
Open water A Bars ☐ N ☒ SIDE ☐ DIAG ☐ MID ☒ SPAN ☐ BR  
Confinement OC Mass Movement L  
Coupling PC Riparian Veg. C  
Valley Flat N C/D Exposed/Eroded NV  
Active Floodplain Visible ☒ Est. Width: 100.0 Landuse FR  
Channel Pattern IR

## MAPS

Map Type Map # Year  
TRIM 93L.031 1990  
TRIM 1031.040 1990

## AIR PHOTOS

Line Number  
BCB8018 97-199

## FEATURES

NID Map 93L.031 NID: 5010  
Type: X Height: 7.0 Method:  
Length: Method:  
Photo: R F Comments:  
UTM (Zone/East/North)

FDIS Reach Card

Reach #    ILP Map #    ILP #

2

1999/01/22

Watershed Code:    440-256900-18900-00000-0000-0000-000-000-000-000

|          |  |  |  |
|----------|--|--|--|
| PHOTOS   |  |  |  |
| COMMENTS |  |  |  |

# FDIS Site Card

1999/01/22

Watershed Code:

Reach # 2- ILP Map # ILP Number 6119  
440-256900-18900-00000-00000-00000-00000-00000-00000-00000-00000

## PROJECT

Project Name Skeena Cellulose Fish Inventory Project Code 06-ZYMO-000000325-1999  
Stream Name (gaz.) CLORE RIVER  
Project Watershed Code 440-256900-00000-00000-00000-00000-00000-00000-00000-00000-00000-00000

## WATERSHED

Gazetted Name THOMAS CREEK Local Name  
Watershed Code 440-256900-18900-00000-00000-00000-00000-00000-00000-00000-00000-00000  
ILP Map# ILP # Reach # 2  
Site # NID Map # NID # UTM(Zone/East/North/Method) Site Lg Method Access Fish Crd?  
6119 93L.031 6119 100 HC H ☒  
Date 1998/10/19 Time 12:00 Agency C172 Crew MLP/BLW Incomplete ☐

## CHANNEL

|                   | method | width | width | width | width | width | width | width | width | width | width |
|-------------------|--------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| Channel Width (m) | T      | 45.6  | 47.9  | 52.1  | 36.7  | 49.2  | 56.8  |       |       |       |       |
| Wetted Width (m)  | T      | 10.3  | 11.2  | 14.0  | 16.8  | 15.9  | 16.8  |       |       |       |       |
| Pool Depth (m)    | MS     | 0.00  | 0.00  | 0.00  | 0.00  | 0.00  | 0.00  | 0.00  |       |       |       |

grad grad method  
Method I 2.0 1.0 C Wb Depth 1.3 1.4 .9 Method MS  
Method II C Stage ☐ L ☐ M ☒ H  
No Vis.Ch. ☐ Intermittent ☐  
Dw ☐ Tribs. ☒  
COVER SWD LWD B C Total DP OV M IV  
T D N T N S T  
LWD F  
DIST E  
LB SHP S  
Texture ☒ F ☒ G ☐ C ☐ B ☐ R ☐ A  
RB SHP S  
Texture ☒ F ☒ G ☐ C ☐ B ☐ R ☐ A  
CROWN CLOSURE 1 1-20%  
INTREAM VEG ☐ N ☐ A ☒ M ☒ V  
RIP C  
STG MF  
RIP M  
STG MF

## WATER

FLOOD SIGNS Req #  
SWD ON ELEVATED BA Method GE EMS  
Temp 6 Metho T3 Cond. 1 Method: S4  
pH 7.8 Method P1 Turb. ☒ T ☐ M ☐ L ☐ C Method: GE

## MORPHOLOGY

BED MATERIAL Dominant: C Subdom: G DISTURBANCE INDICATORS O1 B1 B2 B3 D1 D2 D3  
D95: 63 D (cm): 20 Morph: RP ☐ ☐ ☒ ☐ ☐ ☐ ☐  
Pattern IR C1 C2 C3 C4 C5 S1 S2 S3 S4 S5  
Islands O ☒ ☐ ☒ ☒ ☐ ☐ ☐ ☐ ☒ ☐  
Bars ☐ N ☒ SIDE ☐ DIAG ☒ MID ☐ SPAN ☒ BR  
Coupling PC  
Confinement OC



# FDIS Site Card

Reach #    ILP Map #    ILP Number    Site

2-

6119

1999/01/22

Watershed Code: 440-256900-18900-00000-0000-0000-000-000-000-000-000

## FEATURE

TRIB ☐    SC ☐    FC ☐    SWP/SLG ☐    FL/BV ☐

## HABITAT QUALITY

| Name               | Comments                                                                                                                                                |
|--------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------|
| OverWinter Habitat | no deep pools observed, but this is a large stream and potential may exist outside of site                                                              |
| Rearing Habitat    | moderate with little quality cover and no significant pools observed in the primary channel. Some of the backwatered side channels are somewhat better) |
| Spawning Habitat   | extensive gravel present                                                                                                                                |

## PHOTO DOCUMENTATION

| Photo          | Foc | Lg | Dir                                   | Comments |
|----------------|-----|----|---------------------------------------|----------|
| R 41    F    3 | STD | U  | Bryan shocking                        |          |
| R 41    F    4 | STD | D  | note the high flow stage of the creek |          |

## WILDLIFE

| Group | Observations           |
|-------|------------------------|
| MAM   | squirrel               |
| MAM   | moose trail and tracks |

## COMMENT

| Section | Comments                                                                                                                                          |
|---------|---------------------------------------------------------------------------------------------------------------------------------------------------|
| CHANNEL | this is a very wide, dynamic section of the creek with cutblocks on both sides, (very narrow leave strips present).                               |
| CHANNEL | d/s barriers (3 & 7 m falls) exist but the system is large enough that it would be difficult to assess no fish even though no fish were captured. |

# FDIS Fish Form

1999/01/22

Reach #    ILP Map #    ILP #  
2

Watershed Code: 440-256900-18900-00000-0000-0000-000-000-000-000-000

## WATERBODY

Gazetted Name: THOMAS CREEK    Local:  
WS Code: 440-256900-18900-00000-0000-0000-000-000-000-000-000    Lake/Stream: S  
Waterbody ID:    ILP Map #:    ILP #:  
Project ID: 06-ZYMO-000000325-1999    Reach #: 2

Fish Permit #: 34770-20    Date: 1998/10/19    To: 1998/10/19    Agency C172    Crew: MLP/BLW    Resample: ☐

## SITE / METHOD

| Site# | NID Map | NID # | UTM:Zone/East/North/Mthd | MTD/NO | Temp | Cond | Turbid | Comment |
|-------|---------|-------|--------------------------|--------|------|------|--------|---------|
| 6119  | 93L.031 | 6119  |                          | EF 1   | 6.0  | 1    | T      |         |

## A. GEAR SETTINGS

| Site# | MTD/NO | H/P | Date In    | Time In | Date Out   | Time Out | Comment |
|-------|--------|-----|------------|---------|------------|----------|---------|
| 6119  | EF 1   | 1   | 1998/10/19 | 12:00   | 1998/10/19 | 12:36    |         |

## B. NET/TRAP SPECIFICATIONS

## C. ELECTROFISHER SPECIFICATIONS

| Site# | MTD/NO | H/P | Encl | Sec | Length | Width | Volt | Freq | Pulse | Make       | Model |
|-------|--------|-----|------|-----|--------|-------|------|------|-------|------------|-------|
| 6119  | EF 1   | 1   | O    | 426 | 150.0  | 15.0  | 500  | 70   | 6     | SMITH ROOT | 12B   |

## FISH SUMMARY

| Site# | MTD/NO | H/P | Species | Stage | Age | Total # | Lgth (Min/Max) | FishAct | Comment |
|-------|--------|-----|---------|-------|-----|---------|----------------|---------|---------|
| 6119  | EF 1   | 1   | NFC     |       |     | 0       |                |         |         |

## INDIVIDUAL FISH DATA

## COMMENTS

| Section   | Comments                                                                                                                                            |
|-----------|-----------------------------------------------------------------------------------------------------------------------------------------------------|
| WATERBODY | the conductivity was '0' but shocker indicated overload signal in calmer, deeper water. It is suspected that shocking was effective in these areas. |

# FDIS Reach Card

1999/01/22

Reach # 1 ILP Map # ILP #

Watershed Code: 440-256900-28300-00000-00000-00000-00000-00000-00000-00000

## PROJECT

Project Name Skeena Cellulose Fish Inventory Project Code 06-ZYMO-000000325-1999  
Stream Name (gaz.) CLORE RIVER  
Project Watershed Code 440-256900-00000-00000-00000-00000-00000-00000-00000-00000

## WATERSHED

Reach Watershed Code 440-256900-28300-00000-00000-00000-00000-00000-00000-00000  
ILP Map # ILP # Reach # NID Map # NID # UTM(Zone/East/North/Method)  
1.0 93L.031 5251  
Gazetted Name Local Name Sample Type B Wetland ☐

## SURVEY INFO

Date 1998/09/16 Agency C172 Crew MLP/BLW

## ATTRIBUTES

Length (km) .70 US Elev 440 DISTURBANCE INDICATORS O1 B1 B2 B3 D1 D2 D3  
DS Elev. 390 Magnitude 24 ☐ ☐ ☐ ☐ ☐ ☐ ☐  
Gradient 7.14 Order 4 BGC Zone CWH C1 C2 C3 C4 C5 S1 S2 S3 S4 S5  
☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐  
Setting VW Islands N  
Open water A Bars ☒ N ☐ SIDE ☐ DIAG ☐ MID ☐ SPAN ☐ BR  
Confinement FC Mass Movement L  
Coupling DC Riparian Veg. C  
Valley Flat N C/D N Exposed/Eroded NV  
Active Floodplain Visible ☐ Est. Width: Landuse FB  
Channel Pattern ST

## MAPS

Map Type Map # Year  
TRIM 93L.021 1990

## AIR PHOTOS

Line Number  
BCB8017 56-258

## FEATURES

## PHOTOS

## COMMENTS



# FDIS Site Card

1999/01/22

Watershed Code:

440-256900-28300-00000-0000-0000-000-000-000-000-000

Reach # 1- ILP Map # ILP Number Site 6120

## FEATURE

| NID Map | NID  | Type | Hgt | Method | Lg | Method | Comments                                  |
|---------|------|------|-----|--------|----|--------|-------------------------------------------|
| 93L.031 | 7998 | C    | 5.0 | GE     |    | HC     | cascade located at the mouth of the creek |

| Photo | UTM (Zone/East/North) | Method |
|-------|-----------------------|--------|
| R F   |                       |        |

TRIB ☐ SC ☐ FC ☐ SWP/SLG ☐ FL/BV ☐

## HABITAT QUALITY

| Name               | Comments                                            |
|--------------------|-----------------------------------------------------|
| OverWinter Habitat | no pools observed to be sufficiently deep           |
| Rearing Habitat    | good with nice moderate gradient and abundant cover |
| Spawning Habitat   | gravel present/ angular though                      |

## PHOTO DOCUMENTATION

| Photo    | Foc | Lg | Dir                                  | Comments |
|----------|-----|----|--------------------------------------|----------|
| R 41 F 5 | STD | U  | channel from old bridge (lower road) |          |
| R 41 F 6 | STD | D  | channel from old bridge (lower road) |          |

## WILDLIFE

| Group | Observations    |
|-------|-----------------|
| MAM   | moose droppings |

## COMMENT

| Section | Comments                                                                              |
|---------|---------------------------------------------------------------------------------------|
| CHANNEL | barrier falls observed u/s (between old and new roads) during helicopter recce flight |
| CHANNEL | cascade obstruction at mouth also observed from the air                               |

# FDIS Fish Form

1999/01/22

Reach # 1 ILP Map # ILP #

Watershed Code: 440-256900-28300-00000-0000-0000-000-000-000-000-000

## WATERBODY

Gazetted Name:

Local:

WS Code: 440-256900-28300-00000-0000-0000-000-000-000-000-000-000

Lake/Stream: S

Waterbody ID:

ILP Map #:

ILP #:

Project ID: 06-ZYMO-000000325-1999

Reach #: 1

Fish Permit #: 34770-20

Date: 1998/10/19

To: 1998/10/19

Agency C172

Crew: MLP/BLW

Resample: ☐

## SITE / METHOD

| Site# | NID Map | NID # | UTM:Zone/East/North/Mthd | MTD/NO | Temp | Cond | Turbid | Comment |
|-------|---------|-------|--------------------------|--------|------|------|--------|---------|
| 6120  | 93L.031 | 6120  |                          | EF 1   | 5.0  | 10   | L      |         |

## A. GEAR SETTINGS

| Site# | MTD/NO | H/P | Date In    | Time In | Date Out   | Time Out | Comment |
|-------|--------|-----|------------|---------|------------|----------|---------|
| 6120  | EF 1   | 1   | 1998/10/19 | 14:01   | 1998/10/19 | 14:26    |         |

## B. NET/TRAP SPECIFICATIONS

## C. ELECTROFISHER SPECIFICATIONS

| Site# | MTD/NO | H/P | Encl | Sec | Length | Width | Volt | Freq | Pulse | Make       | Model |
|-------|--------|-----|------|-----|--------|-------|------|------|-------|------------|-------|
| 6120  | EF 1   | 1   | O    | 454 | 150.0  | 4.0   | 400  | 70   | 6     | SMITH ROOT | 12B   |

## FISH SUMMARY

| Site# | MTD/NO | H/P | Species | Stage | Age | Total # | Lgth (Min/Max) | FishAct | Comment |
|-------|--------|-----|---------|-------|-----|---------|----------------|---------|---------|
| 6120  | EF 1   | 1   | NFC     |       |     | 0       |                |         |         |

## INDIVIDUAL FISH DATA

## COMMENTS

# FDIS Reach Card

1999/01/22

Reach # 1 ILP Map # 93L.031 ILP # 229

Watershed Code: 000-000000-00000-00000-0000-0000-000-000-000-000-000-000

## PROJECT

Project Name Skeena Cellulose Fish Inventory Project Code 06-ZYMO-000000325-1999  
Stream Name (gaz.) CLORE RIVER  
Project Watershed Code 440-256900-00000-00000-0000-0000-000-000-000-000-000-000

## WATERSHED

Reach Watershed Code 000-000000-00000-00000-0000-0000-000-000-000-000-000-000  
ILP Map # 93L.031 ILP # 229 Reach # 1.0 NID Map # 93L.031 NID # 2291 UTM(Zone/East/North/Method)  
Gazetted Name Local Name Sample Type B Wetland ☐

## SURVEY INFO

Date 1998/09/16 Agency C172 Crew MLP/BLW

## ATTRIBUTES

Length (km) .80 US Elev 360 DISTURBANCE INDICATORS O1 ☒ B1 ☐ B2 ☐ B3 ☐ D1 ☐ D2 ☐ D3 ☐  
DS Elev. 325 Magnitude 1 C1 ☐ C2 ☐ C3 ☐ C4 ☐ C5 ☐ S1 ☐ S2 ☐ S3 ☐ S4 ☐ S5 ☐  
Gradient 4.37 Order 1 BGC Zone CWH Islands N  
Setting VF Bars ☒ N ☐ SIDE ☐ DIAG ☐ MID ☐ SPAN ☐ BR  
Open water P Mass Movement L  
Confinement UN Riparian Veg. S  
Coupling DC Exposed/Eroded NV  
Valley Flat B C/D C Landuse FB  
Active Floodplain Visible ☐ Est. Width: Channel Pattern SI

## MAPS

Map Type TRIM Map # 93L.031 Year 1990

## AIR PHOTOS

Line BCB8019 Number 57-59

## FEATURES

## PHOTOS

## COMMENTS



# FDIS Site Card

1999/01/22

Watershed Code:

Reach # 1 ILP Map # 93L.031 ILP Number 229 Site 6121  
000-000000-00000-00000-0000-0000-000-000-000-000-000-000

## PROJECT

Project Name Skeena Cellulose Fish Inventory Project Code 06-ZYMO-000000325-1999  
Stream Name (gaz.) CLORE RIVER  
Project Watershed Code 440-256900-00000-00000-0000-0000-000-000-000-000-000-000

## WATERSHED

Gazetted Name Local Name  
Watershed Code 000-000000-00000-00000-0000-0000-000-000-000-000-000-000  
ILP Map# 93L.031 ILP # 229 Reach # 1  
Site # NID Map # NID # UTM(Zone/East/North/Method) Site Lg Method Access Fish Crd?  
6121 93L.031 6121 60 HC H ☐  
Date 1998/10/19 Time 15:30 Agency C172 Crew MLP/BLW Incomplete ☐

## CHANNEL

|                   | method | width | width | width | width | width | width | width | width | width | width | width |
|-------------------|--------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| Channel Width (m) | T      | 3.8   | 3.2   | 2.8   | 1.4   | 1.3   | 1.2   |       |       |       |       |       |
| Wetted Width (m)  | T      | 0.6   | 0.3   | 0.3   | 0.2   | 0.0   | 0.0   |       |       |       |       |       |
| Pool Depth (m)    | MS     | 0.04  | 0.09  | 0.04  | 0.05  | 0.05  | 0.09  |       |       |       |       |       |

|           | grad | grad | method |            |                                       |                            |                            |                                     |    |  |  |  |
|-----------|------|------|--------|------------|---------------------------------------|----------------------------|----------------------------|-------------------------------------|----|--|--|--|
| Method I  | 7.0  | 10.0 | C      | Wb Depth   | .6                                    | .6                         | .7                         | Method                              | MS |  |  |  |
| Method II |      |      | C      | Stage      | <input checked="" type="checkbox"/> L | <input type="checkbox"/> M | <input type="checkbox"/> H |                                     |    |  |  |  |
|           |      |      |        | No Vis.Ch. | <input type="checkbox"/>              |                            | Intermittent               | <input checked="" type="checkbox"/> |    |  |  |  |
|           |      |      |        | Dw         | <input type="checkbox"/>              |                            | Tribs.                     | <input type="checkbox"/>            |    |  |  |  |

| COVER   | SWD                                   | LWD                        | B                          | C                          | Total DP                   | OV                         | T IV |  |  |  |  |  |
|---------|---------------------------------------|----------------------------|----------------------------|----------------------------|----------------------------|----------------------------|------|--|--|--|--|--|
|         | N                                     | N                          | D                          | S                          | N                          | S                          | S    |  |  |  |  |  |
| LWD     |                                       | N                          |                            |                            |                            |                            |      |  |  |  |  |  |
| DIST    |                                       | NA                         |                            |                            |                            |                            |      |  |  |  |  |  |
| LB SHP  |                                       | V                          |                            |                            |                            |                            |      |  |  |  |  |  |
| Texture | <input checked="" type="checkbox"/> F | <input type="checkbox"/> G | <input type="checkbox"/> C | <input type="checkbox"/> B | <input type="checkbox"/> R | <input type="checkbox"/> A |      |  |  |  |  |  |
| RB SHP  |                                       | V                          |                            |                            |                            |                            |      |  |  |  |  |  |
| Texture | <input checked="" type="checkbox"/> F | <input type="checkbox"/> G | <input type="checkbox"/> C | <input type="checkbox"/> B | <input type="checkbox"/> R | <input type="checkbox"/> A |      |  |  |  |  |  |

| CROWN CLOSURE | 1                          |                            |                                       |                            |  |  |  |  |  |  |  |  |
|---------------|----------------------------|----------------------------|---------------------------------------|----------------------------|--|--|--|--|--|--|--|--|
|               |                            |                            |                                       |                            |  |  |  |  |  |  |  |  |
| INTREAM VEG   | <input type="checkbox"/> N | <input type="checkbox"/> A | <input checked="" type="checkbox"/> M | <input type="checkbox"/> V |  |  |  |  |  |  |  |  |
| RIP           | C                          |                            |                                       |                            |  |  |  |  |  |  |  |  |
| STG           | YF                         |                            |                                       |                            |  |  |  |  |  |  |  |  |
| RIP           | C                          |                            |                                       |                            |  |  |  |  |  |  |  |  |
| STG           | YF                         |                            |                                       |                            |  |  |  |  |  |  |  |  |

## WATER

FLOOD SIGNS NONE Req #  
Temp 6 Method GE EMS  
pH 8.0 Metho T3 Cond. 60 Method: S4  
Method P1 Turb. ☐ T ☐ M ☐ L ☒ C Method: GE

## MORPHOLOGY

BED MATERIAL Dominant: C Subdom: G DISTURBANCE INDICATORS O1 B1 B2 B3 D1 D2 D3  
D95: 22 D (cm): 4 Morph: CP C1 C2 C3 C4 C5 S1 S2 S3 S4 S5  
Pattern SI Islands N  
Bars ☒ N ☐ SIDE ☐ DIAG ☐ MID ☐ SPAN ☐ BR  
Coupling DC  
Confinement UN

# FDIS Site Card

1999/01/22

Reach # 1 — ILP Map # 93L.031 ILP Number 229 Site 6121  
Watershed Code: 000-000000-00000-00000-0000-0000-000-000-000-000-000

## FEATURE

TRIB ☐ SC ☐ FC ☐ SWP/SLG ☐ FL/BV ☐

## HABITAT QUALITY

| Name               | Comments                                     |
|--------------------|----------------------------------------------|
| OverWinter Habitat | none                                         |
| Other              | fisheries values are generally poor          |
| Rearing Habitat    | habitat is present but in limited quantities |
| Spawning Habitat   | limited                                      |

## PHOTO DOCUMENTATION

| Photo | Foc | Lg | Dir | Comments |                                           |
|-------|-----|----|-----|----------|-------------------------------------------|
| R 41  | F   | 8  | STD | U        | Bryan, Tania and Steve on bank of channel |
| R 41  | F   | 9  | STD | D        | Bryan on bank of channel                  |

## WILDLIFE

## COMMENT

| Section   | Comments                                                                    |
|-----------|-----------------------------------------------------------------------------|
| SITE CARD | the site is located on a steep, logged slope. Fisheries values are limited. |
| SITE CARD | insufficient water present to shock                                         |

# FDIS Reach Card

1999/01/22

Reach # 1 ILP Map # 93L.031 ILP # 241

Watershed Code: 000-000000-00000-00000-0000-0000-000-000-000-000-000-000

## PROJECT

Project Name Skeena Cellulose Fish Inventory Project Code 06-ZYMO-000000325-1999  
Stream Name (gaz.) CLORE RIVER  
Project Watershed Code 440-256900-00000-00000-0000-0000-000-000-000-000-000-000

## WATERSHED

Reach Watershed Code 000-000000-00000-00000-0000-0000-000-000-000-000-000-000  
ILP Map # 93L.031 ILP # 241 Reach # 1.0 NID Map # 93L.031 NID # 2411 UTM(Zone/East/North/Method)  
Gazetted Name Local Name Sample Type B Wetland ☐

## SURVEY INFO

Date 1998/09/16 Agency C172 Crew MLP/BLW

## ATTRIBUTES

Length (km) .50 US Elev 420 DISTURBANCE INDICATORS O1 B1 B2 B3 D1 D2 D3  
DS Elev. 330 Magnitude 4 ☐ ☐ ☐ ☐ ☐ ☐ ☐  
Gradient 18 Order 2 BGC Zone CWH C1 C2 C3 C4 C5 S1 S2 S3 S4 S5  
Setting VW ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐  
Islands N  
Open water A Bars ☒ N ☐ SIDE ☐ DIAG ☐ MID ☐ SPAN ☐ BR  
Confinement CO Mass Movement H  
Coupling DC Riparian Veg. C  
Valley Flat N C/D Exposed/Eroded NV  
Active Floodplain Visible ☐ Est. Width: Landuse NO  
Channel Pattern ST

## MAPS

Map Type Map # Year  
TRIM 93L.031 1990

## AIR PHOTOS

Line Number  
BCB8018 29-231

## FEATURES

## PHOTOS

## COMMENTS

# FDIS Site Card

1999/01/22

Reach # 1 ILP Map # 93L.031 ILP Number 241 Site 6122  
 Watershed Code: 000-000000-00000-00000-0000-0000-000-000-000-000-000

## PROJECT

Project Name Skeena Cellulose Fish Inventory Project Code 06-ZYMO-000000325-1999  
 Stream Name (gaz.) CLORE RIVER  
 Project Watershed Code 440-256900-00000-00000-0000-0000-000-000-000-000-000

## WATERSHED

Gazetted Name Local Name  
 Watershed Code 000-000000-00000-00000-0000-0000-000-000-000-000-000  
 ILP Map# 93L.031 ILP # 241 Reach # 1  
 Site # NID Map # NID # UTM(Zone/East/North/Method) Site Lg Method Access Fish Crd?  
 6122 93L.031 6122 100 HC H ☒  
 Date 1998/10/19 Time 16:24 Agency C172 Crew MLP/BLW Incomplete ☐

## CHANNEL

|                   | method | width | width | width | width | width | width | width | width | width | width | width |
|-------------------|--------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| Channel Width (m) | T      | 4.1   | 4.4   | 2.6   | 3.9   | 4.2   | 3.1   |       |       |       |       |       |
| Wetted Width (m)  | T      | 2.2   | 2.0   | 2.1   | 2.7   | 2.9   | 2.1   |       |       |       |       |       |
| Pool Depth (m)    | MS     | 1.10  | 0.25  | 0.63  | 0.21  | 0.16  | 0.24  |       |       |       |       |       |

|           | grad | grad | method |
|-----------|------|------|--------|
| Method I  | 4.0  | 7.0  | C      |
| Method II |      |      | C      |

Wb Depth 1.3 1.2 1.3 Method MS  
 Stage ☐ L ☒ M ☐ H  
 No Vis.Ch. ☐ Intermittent ☐  
 Dw ☐ Tribs. ☐

COVER  
 SWD LWD B C DP OV IV  
 S D S S S S N  
 LWD A  
 DIST E  
 LB SHP V  
 Texture ☒ F ☐ G ☐ C ☐ B ☐ R ☐ A  
 RB SHP V  
 Texture ☒ F ☐ G ☐ C ☐ B ☐ R ☐ A

CROWN CLOSURE  
 1 1-20%

INTREAM VEG ☐ N ☐ A ☒ M ☒ V  
 RIP C  
 STG MF  
 RIP C  
 STG MF

## WATER

FLOOD SIGNS  
 ROCKS HIGH ON LWD Method GE  
 Temp 6 Metho T3  
 pH 7.8 Method P1  
 Req #  
 EMS  
 Cond. 10 Method: S4  
 Turb. ☐ T ☐ M ☐ L ☒ C Method: GE

## MORPHOLOGY

BED MATERIAL Dominant: G Subdom: B DISTURBANCE INDICATORS O1 B1 B2 B3 D1 D2 D3  
 D95: 52 D (cm): 28 Morph: CP ☐ ☐ ☒ ☐ ☐ ☐ ☐  
 Pattern IM C1 C2 C3 C4 C5 S1 S2 S3 S4 S5  
 Islands N ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐  
 Bars ☐ N ☒ SIDE ☐ DIAG ☐ MID ☐ SPAN ☐ BR  
 Coupling DC  
 Confinement UN

# FDIS Site Card

Reach #      ILP Map #      ILP Number      Site

1 —      93L.031      241      6122

1999/01/22

Watershed Code: 000-000000-00000-00000-0000-0000-000-000-000-000-000

## FEATURE

TRIB ☐    SC ☐    FC ☐    SWP/SLG ☐    FL/BV ☐

## HABITAT QUALITY

| Name               | Comments                                                                       |
|--------------------|--------------------------------------------------------------------------------|
| OverWinter Habitat | some deep pools present (there is also unimpeded access to the Clore mainstem) |
| Rearing Habitat    | nice moderate gradient RB,DV type habitat with lots of cover                   |
| Spawning Habitat   | gravel present                                                                 |

## PHOTO DOCUMENTATION

| Photo | Foc | Lg | Dir | Comments |                  |
|-------|-----|----|-----|----------|------------------|
| R 41  | F   | 11 | STD | U        | channel with LWD |
| R 41  | F   | 12 | STD | D        | channel          |

## WILDLIFE

## COMMENT

# FDIS Fish Form

1999/01/22

Watershed Code:

000-000000-00000-00000-0000-0000-000-000-000-000-000-000

Reach # ILP Map # ILP #

1 93L.031 241

## WATERBODY

Gazetted Name:

Local:

WS Code: 000-000000-00000-00000-0000-0000-000-000-000-000-000

Lake/Stream: S

Waterbody ID:

ILP Map #: 93L.031

ILP #: 241

Project ID:

06-ZYMO-000000325-1999

Reach #: 1

Fish Permit #: 34770-20

Date: 1998/10/19

To: 1998/10/19

Agency C172

Crew: MLP/BLW

Resample: ☐

## SITE / METHOD

| Site# | NID Map | NID # | UTM:Zone/East/North/Mthd | MTD/NO | Temp | Cond | Turbid | Comment |
|-------|---------|-------|--------------------------|--------|------|------|--------|---------|
| 6122  | 93L.031 | 6122  |                          | EF 1   | 6.0  | 10   | C      |         |

## A. GEAR SETTINGS

| Site# | MTD/NO | H/P | Date In    | Time In | Date Out   | Time Out | Comment |
|-------|--------|-----|------------|---------|------------|----------|---------|
| 6122  | EF 1   | 1   | 1998/10/19 | 16:24   | 1998/10/19 | 16:46    |         |

## B. NET/TRAP SPECIFICATIONS

## C. ELECTROFISHER SPECIFICATIONS

| Site# | MTD/NO | H/P | Encl | Sec | Length | Width | Volt | Freq | Pulse | Make      | Model |
|-------|--------|-----|------|-----|--------|-------|------|------|-------|-----------|-------|
| 6122  | EF 1   | 1   | O    | 361 | 100.0  | 2.2   | 400  | 70   | 6     | SMITHROOT | 12B   |

## FISH SUMMARY

| Site# | MTD/NO | H/P | Species | Stage | Age | Total # | Lgth (Min/Max) | FishAct | Comment |
|-------|--------|-----|---------|-------|-----|---------|----------------|---------|---------|
| 6122  | EF 1   | 1   | RB      | J     |     | 2       | 37 69          | R       |         |

## INDIVIDUAL FISH DATA

| Site# | MTD/NO | H/P | Species | Length | Weight | Sex | Mat | Age<br>Str/Smpl#/Age | Vch# | Genetic<br>Str/Smpl# | Roll # | Frame# | Comment |
|-------|--------|-----|---------|--------|--------|-----|-----|----------------------|------|----------------------|--------|--------|---------|
| 6122  | EF 1   | 1   | RB      | 69     |        | U   | IM  |                      |      |                      | 41     | 10     |         |
| 6122  | EF 1   | 1   | RB      | 37     |        | U   | IM  |                      |      |                      |        |        |         |

## COMMENTS

# FDIS Reach Card

1999/01/22

Reach # 1 ILP Map # 93L.021 ILP # 635

Watershed Code: 000-000000-00000-00000-0000-0000-000-000-000-000-000-000

## PROJECT

Project Name Skeena Cellulose Fish Inventory Project Code 06-ZYMO-000000325-1999  
Stream Name (gaz.) CLORE RIVER  
Project Watershed Code 440-256900-00000-00000-0000-0000-000-000-000-000-000-000

## WATERSHED

Reach Watershed Code 000-000000-00000-00000-0000-0000-000-000-000-000-000-000  
ILP Map # 93L.021 ILP # 635 Reach # 1.0 NID Map # 93L.021 NID # 6351 UTM(Zone/East/North/Method)  
Gazetted Name Local Name Sample Type B Wetland ☐

## SURVEY INFO

Date 1998/09/16 Agency C172 Crew MLP/BLW

## ATTRIBUTES

Length (km) 1.30 US Elev 600 DISTURBANCE INDICATORS O1 B1 B2 B3 D1 D2 D3  
DS Elev. 410 Magnitude 1 C1 C2 C3 C4 C5 S1 S2 S3 S4 S5  
Gradient 14.62 Order 1 BGC Zone CWH  
Setting VW Islands N  
Open water A Bars ☒ N ☐ SIDE ☐ DIAG ☐ MID ☐ SPAN ☐ BR  
Confinement EN Mass Movement H  
Coupling CO Riparian Veg. C  
Valley Flat N C/D Exposed/Eroded NV  
Active Floodplain Visible ☐ Est. Width: Landuse FB  
Channel Pattern ST

## MAPS

Map Type Map # Year  
TRIM 93L.021 1990  
TRIM 93L.031 1990

## AIR PHOTOS

Line Number  
BCB8017 50-255

## FEATURES

NID Map 93L.021 NID: 5020  
Type: F Height: 3.0 Method:  
Length: Method:  
Photo: R F Comments:  
UTM (Zone/East/North)



FDIS Reach Card

1999/01/22

Reach #    ILP Map #    ILP #  
1            93L.021        635

Watershed Code:    000-000000-00000-00000-0000-0000-000-000-000-000-000

PHOTOS

COMMENTS

| Section              | Comments                                               |
|----------------------|--------------------------------------------------------|
| SAMPLING INFORMATION | this reach was identified NVC during the ground survey |



FDIS Site Card

1999/01/22

Watershed Code: 000-000000-00000-00000-0000-0000-000-000-000-000-000-000

Reach # ILP Map # ILP Number Site  
1 93L.021 635 6123

|                               |                                                                                                                         |
|-------------------------------|-------------------------------------------------------------------------------------------------------------------------|
| FEATURE                       |                                                                                                                         |
| TRIB <input type="checkbox"/> | SC <input type="checkbox"/> FC <input type="checkbox"/> SWP/SLG <input type="checkbox"/> FL/BV <input type="checkbox"/> |
| HABITAT QUALITY               |                                                                                                                         |
| PHOTO DOCUMENTATION           |                                                                                                                         |
| WILDLIFE                      |                                                                                                                         |
| COMMENT                       |                                                                                                                         |

| Section   | Comments                                                                                                                                                        |
|-----------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------|
| SITE CARD | no evidence of a channel was located from the recce flight or from recce walk through the bush. (A 3m falls (N5020) is indicated on TRIM-source/origin unknown) |

# FDIS Reach Card

1999/01/22

Reach # 1 ILP Map # 93L.011 ILP # 933

Watershed Code: 000-000000-00000-00000-0000-0000-000-000-000-000-000-000

## PROJECT

Project Name Skeena Cellulose Fish Inventory Project Code 06-ZYMO-000000325-1999  
Stream Name (gaz.) CLORE RIVER  
Project Watershed Code 440-256900-00000-00000-0000-0000-000-000-000-000-000-000

## WATERSHED

Reach Watershed Code 000-000000-00000-00000-0000-0000-000-000-000-000-000-000  
ILP Map # 93L.011 ILP # 933 Reach # 1.0 NID Map # 93L.011 NID # 9331 UTM(Zone/East/North/Method)  
Gazetted Name Local Name Sample Type B Wetland ☐

## SURVEY INFO

Date 1998/09/16 Agency C172 Crew SMJ/TMM

## ATTRIBUTES

Length (km) .50 US Elev 800 DISTURBANCE INDICATORS O1 B1 B2 B3 D1 D2 D3  
DS Elev. 655 Magnitude 1 C1 C2 C3 C4 C5 S1 S2 S3 S4 S5  
Gradient 29 Order 1 BGC Zone CWH  
Setting VW Islands N  
Open water A Bars ☒ N ☐ SIDE ☐ DIAG ☐ MID ☐ SPAN ☐ BR  
Confinement EN Mass Movement H  
Coupling PC Riparian Veg. C  
Valley Flat N C/D Exposed/Eroded NV  
Active Floodplain Visible ☐ Est. Width: Landuse NO  
Channel Pattern ST

## MAPS

Map Type Map # Year  
TRIM 93L.011 1990

## AIR PHOTOS

## FEATURES

NID Map 93L.011 NID: 5028  
Type: F Height: 2.0 Method:  
Length: Method:  
Photo: R F Comments:  
UTM (Zone/East/North)

## PHOTOS

# FDIS Site Card

1999/01/22

Watershed Code:

Reach # 1 ILP Map # 93L.011 ILP Number 933 Site 9100  
000-000000-000000-000000-0000-0000-000-000-000-000-000

## PROJECT

Project Name Skeena Cellulose Fish Inventory Project Code 06-ZYMO-000000325-1999  
Stream Name (gaz.) CLORE RIVER  
Project Watershed Code 440-256900-00000-00000-0000-0000-000-000-000-000-000

## WATERSHED

Gazetted Name Local Name  
Watershed Code 000-000000-00000-00000-0000-0000-000-000-000-000-000  
ILP Map# 93L.011 ILP # 933 Reach # 1  
Site # NID Map # NID # UTM(Zone/East/North/Method) Site Lg Method Access Fish Crd?  
9100 93L.011 9100 100 HC H ☒  
Date 1998/10/14 Time 10:07 Agency C172 Crew SMJ/TMM Incomplete ☐

## CHANNEL

|                   | method | width | width | width | width | width | width | width | width | width | width | width |
|-------------------|--------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| Channel Width (m) | T      | 0.4   | 0.8   | 1.1   | 0.6   | 0.4   | 0.5   |       |       |       |       |       |
| Wetted Width (m)  | T      | 0.3   | 0.4   | 0.7   | 0.5   | 0.3   | 0.3   |       |       |       |       |       |
| Pool Depth (m)    | MS     | 0.17  | 0.20  | 0.14  | 0.12  | 0.11  | 0.15  |       |       |       |       |       |

|           | grad | grad | method |  | Wb Depth | 1.2 | 2.0 | 2.5 | Method | MS |
|-----------|------|------|--------|--|----------|-----|-----|-----|--------|----|
| Method I  | 31.0 | 18.0 | C      |  |          |     |     |     |        |    |
| Method II | 27.0 |      | C      |  |          |     |     |     |        |    |

| COVER   | SWD                                   | LWD                        | B                          | C                          | Total DP                   | OV                         | A IV |
|---------|---------------------------------------|----------------------------|----------------------------|----------------------------|----------------------------|----------------------------|------|
|         | T                                     | T                          | T                          | S                          | N                          | D                          | S    |
| LWD     | F                                     |                            |                            |                            |                            |                            |      |
| DIST    | E                                     |                            |                            |                            |                            |                            |      |
| LB SHP  | S                                     |                            |                            |                            |                            |                            |      |
| Texture | <input checked="" type="checkbox"/> F | <input type="checkbox"/> G | <input type="checkbox"/> C | <input type="checkbox"/> B | <input type="checkbox"/> R | <input type="checkbox"/> A |      |
| RB SHP  | S                                     |                            |                            |                            |                            |                            |      |
| Texture | <input checked="" type="checkbox"/> F | <input type="checkbox"/> G | <input type="checkbox"/> C | <input type="checkbox"/> B | <input type="checkbox"/> R | <input type="checkbox"/> A |      |

| CROWN CLOSURE | 4 | 71-90% |
|---------------|---|--------|
|               |   |        |

| INTREAM VEG | <input type="checkbox"/> N | <input checked="" type="checkbox"/> A | <input checked="" type="checkbox"/> M | <input type="checkbox"/> V |
|-------------|----------------------------|---------------------------------------|---------------------------------------|----------------------------|
| RIP         | M                          |                                       |                                       |                            |
| STG         | MF                         |                                       |                                       |                            |
| RIP         | M                          |                                       |                                       |                            |
| STG         | MF                         |                                       |                                       |                            |

## WATER

FLOOD SIGNS  
NONE Method GE  
Temp 3.5 Metho T3  
pH 8.2 Method P1  
Req # EMS  
Cond. 10 Method: S4  
Turb. ☐ T ☐ M ☐ L ☒ C Method: GE

## MORPHOLOGY

BED MATERIAL Dominant: F Subdom: C DISTURBANCE INDICATORS O1 B1 B2 B3 D1 D2 D3  
D95: 30 D (cm): 1 Morph: CP C1 C2 C3 C4 C5 S1 S2 S3 S4 S5  
Pattern SI  
Islands O  
Bars ☒ N ☐ SIDE ☐ DIAG ☐ MID ☐ SPAN ☐ BR  
Coupling PC  
Confinement OC

# FDIS Site Card

Reach # 1 ILP Map # 93L.011 ILP Number 933 Site 9100

1999/01/22

Watershed Code: 000-000000-00000-00000-0000-0000-000-000-000-000-000

| FEATURE |      |      |      |        |    |        |                                    |
|---------|------|------|------|--------|----|--------|------------------------------------|
| NID Map | NID  | Type | Hgt  | Method | Lg | Method | Comments                           |
| 93L.011 | 9200 | F    | 10.0 | GE     |    | HC     | photo of barrier at mouth of LP933 |

Photo R 26 UTM (Zone/East/North) F 2 Method

TRIB ☐ SC ☐ FC ☐ SWP/SLG ☐ FL/BV ☐

| HABITAT QUALITY    |               |
|--------------------|---------------|
| Name               | Comments      |
| OverWinter Habitat | no potential  |
| Rearing Habitat    | poor          |
| Spawning Habitat   | none observed |

| PHOTO DOCUMENTATION |     |    |     |                                                       |
|---------------------|-----|----|-----|-------------------------------------------------------|
| Photo               | Foc | Lg | Dir | Comments                                              |
| R 26 F 3            | STD | D  |     | Tania and channel 50m u/s fo mouth                    |
| R 26 F 4            | STD | U  |     | vest and pools connected by overland flow and seepage |
| R 26 F 7            | STD | U  |     | waterfalls at mouth - aerial shot                     |

| WILDLIFE |
|----------|
|----------|

| COMMENT |
|---------|
|---------|

| Section | Comments                   |
|---------|----------------------------|
| CHANNEL | disconnected pools present |

# FDIS Fish Form

1999/01/22

Reach # 1 ILP Map # 93L.011 ILP # 933

Watershed Code: 000-000000-00000-00000-0000-0000-000-000-000-000-000

## WATERBODY

Gazetted Name:

Local:

WS Code: 000-000000-00000-00000-0000-0000-000-000-000-000-000

Lake/Stream: S

Waterbody ID:

ILP Map #: 93L.011

ILP #: 933

Project ID: 06-ZYMO-000000325-1999

Reach #: 1

Fish Permit #: 34770-20

Date: 1998/10/14

To: 1998/10/14

Agency C172

Crew: SMJ/TMM

Resample: ☐

## SITE / METHOD

| Site# | NID Map | NID # | UTM:Zone/East/North/Mthd | MTD/NO | Temp | Cond | Turbid | Comment |
|-------|---------|-------|--------------------------|--------|------|------|--------|---------|
| 9100  | 93L.011 | 9100  |                          | EF 1   | 3.5  | 10   | C      |         |

## A. GEAR SETTINGS

| Site# | MTD/NO | H/P | Date In    | Time In | Date Out   | Time Out | Comment |
|-------|--------|-----|------------|---------|------------|----------|---------|
| 9100  | EF 1   | 1   | 1998/10/14 | 10:07   | 1998/10/14 | 10:27    |         |

## B. NET/TRAP SPECIFICATIONS

## C. ELECTROFISHER SPECIFICATIONS

| Site# | MTD/NO | H/P | Encl | Sec | Length | Width | Volt | Freq | Pulse | Make      | Model |
|-------|--------|-----|------|-----|--------|-------|------|------|-------|-----------|-------|
| 9100  | EF 1   | 1   | O    | 197 | 150.0  | 0.5   | 500  | 70   | 8     | SMITHROOT | 12B   |

## FISH SUMMARY

| Site# | MTD/NO | H/P | Species | Stage | Age | Total # | Lgth (Min/Max) | FishAct | Comment |
|-------|--------|-----|---------|-------|-----|---------|----------------|---------|---------|
| 9100  | EF 1   | 1   | NFC     |       |     | 0       |                |         |         |

## INDIVIDUAL FISH DATA

## COMMENTS



# FDIS Reach Card

Reach #    ILP Map #    ILP #

1999/01/22

2

Watershed Code: 440-256900-47600-00000-00000-0000-000-000-000-000-000-000

## PROJECT

Project Name    Skeena Cellulose Fish Inventory    Project Code    06-ZYMO-000000325-1999

Stream Name (gaz.)    CLORE RIVER

Project Watershed Code    440-256900-00000-00000-0000-0000-000-000-000-000-000

## WATERSHED

Reach Watershed Code    440-256900-47600-00000-0000-0000-000-000-000-000-000-000

ILP Map #    ILP #    Reach #    NID Map #    NID #    UTM(Zone/East/North/Method)

2.0    93L.011    9232

Gazetted Name    Local Name    Sample Type    B    Wetland ☐

## SURVEY INFO

Date    1998/09/16    Agency    C172    Crew    SMJ/TMM

## ATTRIBUTES

Length (km)    1.80    US Elev    675    DISTURBANCE    O1    B1    B2    B3    D1    D2    D3

DS Elev.    555    Magnitude    139    INDICATORS    ☐    ☐    ☐    ☐    ☐    ☐    ☐

Gradient    6.67    Order    5    BGC Zone    CWH    C1    C2    C3    C4    C5    S1    S2    S3    S4    S5

Setting    VF    ☐    ☐    ☐    ☐    ☐    ☐    ☐    ☐    ☐    ☐

Open water    A    Islands    N

Confinement    CO    Bars    ☒ N    ☐ SIDE    ☐ DIAG    ☐ MID    ☐ SPAN    ☐ BR

Coupling    CO    Mass Movement    M

Valley Flat    N    C/D    Riparian Veg.    C

Active Floodplain    Visible ☐ Est. Width:    Exposed/Eroded    NV

Channel Pattern    ST    Landuse    NO

## MAPS

Map Type    Map #    Year

TRIM    93L.011    1990

TRIM    93L.031    1990

## AIR PHOTOS

## FEATURES

NID Map    93L.011    NID:    5211

Type:    C    Height:    Method:

Length:    800    Method:

Photo:    R    F    Comments:    Bustard

UTM (Zone/East/North)



# FDIS Site Card

1999/01/22

Reach # ILP Map # ILP Number Site

2--

9101

Watershed Code:

440-256900-47600-00000-0000-0000-000-000-000-000

## FEATURE

TRIB ☐ SC ☐ FC ☐ SWP/SLG ☐ FL/BV ☐

## HABITAT QUALITY

| Name             | Comments                                                                                                      |
|------------------|---------------------------------------------------------------------------------------------------------------|
| Rearing Habitat  | excellent - abundant pools and cover. This is a good looking large stream which is capable of supporting fish |
| Spawning Habitat | isolated patches in pool tailouts                                                                             |

## PHOTO DOCUMENTATION

| Photo | Foc | Lg | Dir | Comments |                                    |
|-------|-----|----|-----|----------|------------------------------------|
| R 26  | F   | 9  | STD | U        | aerial shot of barriers in channel |
| R 26  | F   | 5  | STD | D        | packsack and cascades              |
| R 26  | F   | 6  | STD | U        | packsack and cascades              |

## WILDLIFE

## COMMENT

| Section | Comments                                                                                                                           |
|---------|------------------------------------------------------------------------------------------------------------------------------------|
| CHANNEL | this is a large creek with many tribs. The reach is a confined boulder-cascade reach with many pools, drops and steep canyon walls |

# FDIS Fish Form

1999/01/22

Reach #    ILP Map #    ILP #  
2

Watershed Code: 440-256900-47600-00000-0000-0000-000-000-000-000-000

## WATERBODY

Gazetted Name:

Local:

WS Code: 440-256900-47600-00000-0000-0000-000-000-000-000-000

Lake/Stream: S

Waterbody ID:

ILP Map #:

ILP #:

Project ID: 06-ZYMO-000000325-1999

Reach #: 2

Fish Permit #: 34770-20

Date: 1998/10/14

To: 1998/10/14

Agency C172

Crew: SMJ/TMM

Resample: ☐

## SITE / METHOD

| Site# | NID Map | NID # | UTM:Zone/East/North/Mthd | MTD/NO | Temp | Cond | Turbid | Comment |
|-------|---------|-------|--------------------------|--------|------|------|--------|---------|
| 9101  | 93L.011 | 9101  |                          | EF 1   | 2.5  | 40   | L      |         |

## A. GEAR SETTINGS

| Site# | MTD/NO | H/P | Date In    | Time In | Date Out   | Time Out | Comment |
|-------|--------|-----|------------|---------|------------|----------|---------|
| 9101  | EF 1   | 1   | 1998/10/14 | 12:15   | 1998/10/14 | 12:35    |         |

## B. NET/TRAP SPECIFICATIONS

## C. ELECTROFISHER SPECIFICATIONS

| Site# | MTD/NO | H/P | Encl | Sec | Length | Width | Volt | Freq | Pulse | Make      | Model |
|-------|--------|-----|------|-----|--------|-------|------|------|-------|-----------|-------|
| 9101  | EF 1   | 1   | O    | 333 | 60.0   | 8.0   | 400  | 70   | 8     | SMITHROOT | 12B   |

## FISH SUMMARY

| Site# | MTD/NO | H/P | Species | Stage | Age | Total # | Lgth (Min/Max) | FishAct | Comment |
|-------|--------|-----|---------|-------|-----|---------|----------------|---------|---------|
| 9101  | EF     | 1 1 | NFC     |       |     | 0       |                |         |         |

## INDIVIDUAL FISH DATA

## COMMENTS

# FDIS Reach Card

1999/01/22

Reach # 1 ILP Map # 93L.011 ILP # 928

Watershed Code: 000-000000-00000-00000-0000-0000-000-000-000-000-000-000

## PROJECT

Project Name Skeena Cellulose Fish Inventory Project Code 06-ZYMO-000000325-1999  
Stream Name (gaz.) CLORE RIVER  
Project Watershed Code 440-256900-00000-00000-0000-0000-000-000-000-000-000-000

## WATERSHED

Reach Watershed Code 000-000000-00000-00000-0000-0000-000-000-000-000-000-000  
ILP Map # 93L.011 ILP # 928 Reach # 1.0 NID Map # 93L.011 NID # 9281 UTM(Zone/East/North/Method)  
Gazetted Name Local Name Sample Type B Wetland ☐

## SURVEY INFO

Date 1998/09/16 Agency C172 Crew SMJ/TMM

## ATTRIBUTES

Length (km) 3.40 US Elev 1580 DISTURBANCE INDICATORS O1 B1 B2 B3 D1 D2 D3  
DS Elev. 570 Magnitude 5  
Gradient 29.71 Order 2 BGC Zone CWH C1 C2 C3 C4 C5 S1 S2 S3 S4 S5  
Setting VW Islands N  
Open water A Bars ☒ N ☐ SIDE ☐ DIAG ☐ MID ☐ SPAN ☐ BR  
Confinement EN Mass Movement H  
Coupling CO Riparian Veg. C  
Valley Flat N C/D Exposed/Eroded NV  
Active Floodplain Visible ☐ Est. Width: Landuse NO  
Channel Pattern ST

## MAPS

Map Type TRIM Map # 93L.011 Year 1990

## AIR PHOTOS

## FEATURES

## PHOTOS

## COMMENTS

# FDIS Site Card

1999/01/22

Watershed Code:

| Reach #                                                  | ILP Map # | ILP Number | Site |
|----------------------------------------------------------|-----------|------------|------|
| 1—                                                       | 93L.011   | 928        | 9102 |
| 000-000000-00000-00000-0000-0000-000-000-000-000-000-000 |           |            |      |

## PROJECT

|                        |                                                          |              |                        |
|------------------------|----------------------------------------------------------|--------------|------------------------|
| Project Name           | Skeena Cellulose Fish Inventory                          | Project Code | 06-ZYMO-000000325-1999 |
| Stream Name (gaz.)     | CLORE RIVER                                              |              |                        |
| Project Watershed Code | 440-256900-00000-00000-0000-0000-000-000-000-000-000-000 |              |                        |

## WATERSHED

| Gazetted Name                                                           |            |            |                             | Local Name |         |            |                            |
|-------------------------------------------------------------------------|------------|------------|-----------------------------|------------|---------|------------|----------------------------|
| Watershed Code 000-000000-00000-00000-0000-0000-000-000-000-000-000-000 |            |            |                             |            |         |            |                            |
| ILP Map# 93L.011                                                        |            | ILP # 928  |                             | Reach # 1  |         |            |                            |
| Site #                                                                  | NID Map #  | NID #      | UTM(Zone/East/North/Method) |            | Site Lg | Method     | Access Fish Crd?           |
| 9102                                                                    | 93L.011    | 9102       |                             |            | 100     | GE         | H <input type="checkbox"/> |
| Date                                                                    | 1998/10/14 | Time 14:00 | Agency C172                 | Crew       | SMJ/TMM | Incomplete | <input type="checkbox"/>   |

## CHANNEL

|                   | method | width | width | width | width | width | width | width | width | width | width |
|-------------------|--------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| Channel Width (m) | T      | 7.2   | 1.3   | 6.7   | 7.1   | 5.7   | 6.2   |       |       |       |       |
| Wetted Width (m)  | T      | 3.3   | 2.5   | 2.8   | 3.7   | 2.9   | 2.6   |       |       |       |       |
| Pool Depth (m)    | MS     | 0.25  | 0.20  | 0.30  | 0.45  | 0.30  | 0.35  |       |       |       |       |

[illegible]

| COVER   |     |                            |                            |                            | Total                                 |                                       | M                          |
|---------|-----|----------------------------|----------------------------|----------------------------|---------------------------------------|---------------------------------------|----------------------------|
|         | SWD | LWD                        | B                          | C                          | DP                                    | OV                                    |                            |
|         | T   | S                          | D                          | N                          | S                                     | T                                     | N                          |
| LWD     |     | A                          |                            |                            |                                       |                                       |                            |
| DIST    |     |                            | C                          |                            |                                       |                                       |                            |
| LB SHP  |     | V                          |                            |                            |                                       |                                       |                            |
| Texture |     | <input type="checkbox"/> F | <input type="checkbox"/> G | <input type="checkbox"/> C | <input checked="" type="checkbox"/> B | <input type="checkbox"/> R            | <input type="checkbox"/> A |
| RB SHP  |     | V                          |                            |                            |                                       |                                       |                            |
| Texture |     | <input type="checkbox"/> F | <input type="checkbox"/> G | <input type="checkbox"/> C | <input type="checkbox"/> B            | <input checked="" type="checkbox"/> R | <input type="checkbox"/> A |

| Wb Depth      | 1.9                        | 1.7                                   | 1.5                        | Method                   | MS |
|---------------|----------------------------|---------------------------------------|----------------------------|--------------------------|----|
| Stage         | <input type="checkbox"/> L | <input checked="" type="checkbox"/> M | <input type="checkbox"/> H |                          |    |
| No Vis.Ch.    | <input type="checkbox"/>   | Intermittent                          |                            | <input type="checkbox"/> |    |
| Dw            | <input type="checkbox"/>   | Tribs.                                |                            | <input type="checkbox"/> |    |
| CROWN CLOSURE |                            |                                       |                            |                          |    |
| 1             | 1-20%                      |                                       |                            |                          |    |

INTREAM VEG      ☐ N    ☒ A    ☒ M    ☐ V

RIP      M

STG    MF

RIP      M

STG    MF

# WATER

## FLOOD SIGNS

|                     |        |    |
|---------------------|--------|----|
| @1.2M-BOULDER ON LO | Method | GE |
| Temp 3              | Metho  | T3 |
| pH 9.2              | Method | P1 |

Req #

EMS

Cond. 60

Turb. ☐ T ☐ M ☐ L ☒ C

**Method:** S4

**Method:** GE

## MORPHOLOGY

|              |           |         |         |        |    |
|--------------|-----------|---------|---------|--------|----|
| BED MATERIAL | Dominant: | B       | Subdom: | R      |    |
| D95:         | 85        | D (cm): | 45      | Morph: | CP |

## DISTURBANCE INDICATORS

|                          |                          |                          |                          |                          |                          |                                     |                          |                          |  |
|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|-------------------------------------|--------------------------|--------------------------|--|
| 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"/>            |                          |                          |  |
| 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 checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |  |

| Pattern | ST |
|---------|----|
| 1       | 1  |
| 2       | 1  |
| 3       | 1  |
| 4       | 1  |
| 5       | 1  |
| 6       | 1  |
| 7       | 1  |
| 8       | 1  |
| 9       | 1  |
| 10      | 1  |
| 11      | 1  |
| 12      | 1  |
| 13      | 1  |
| 14      | 1  |
| 15      | 1  |
| 16      | 1  |
| 17      | 1  |
| 18      | 1  |
| 19      | 1  |
| 20      | 1  |
| 21      | 1  |
| 22      | 1  |
| 23      | 1  |
| 24      | 1  |
| 25      | 1  |
| 26      | 1  |
| 27      | 1  |
| 28      | 1  |
| 29      | 1  |
| 30      | 1  |
| 31      | 1  |
| 32      | 1  |
| 33      | 1  |
| 34      | 1  |
| 35      | 1  |
| 36      | 1  |
| 37      | 1  |
| 38      | 1  |
| 39      | 1  |
| 40      | 1  |
| 41      | 1  |
| 42      | 1  |
| 43      | 1  |
| 44      | 1  |
| 45      | 1  |
| 46      | 1  |
| 47      | 1  |
| 48      | 1  |
| 49      | 1  |
| 50      | 1  |
| 51      | 1  |
| 52      | 1  |
| 53      | 1  |
| 54      | 1  |
| 55      | 1  |
| 56      | 1  |
| 57      | 1  |
| 58      | 1  |
| 59      | 1  |
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| 63      | 1  |
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| 67      | 1  |
| 68      | 1  |
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| 72      | 1  |
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| 79      | 1  |
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| 81      | 1  |
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| 83      | 1  |
| 84      | 1  |
| 85      | 1  |
| 86      | 1  |
| 87      | 1  |
| 88      | 1  |
| 89      | 1  |
| 90      | 1  |
| 91      | 1  |
| 92      | 1  |
| 93      | 1  |
| 94      | 1  |
| 95      | 1  |
| 96      | 1  |
| 97      | 1  |
| 98      | 1  |
| 99      | 1  |
| 100     | 1  |

| Islands | N |
|---------|---|
|---------|---|

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

Coupling CO

Confinement CO

# FDIS Site Card

1999/01/22

Watershed Code:

Reach # 1 — ILP Map # 93L.011 ILP Number 928 Site 9102  
000-000000-00000-00000-0000-0000-000-000-000-000-000

## FEATURE

| NID Map | NID  | Type | Hgt | Method | Lg | Method | Comments                                      |
|---------|------|------|-----|--------|----|--------|-----------------------------------------------|
| 93L.011 | 9999 | F    | 3.0 | GE     |    | HC     | falls located just u/s of the confluence with |

| Photo | UTM (Zone/East/North) | Method |
|-------|-----------------------|--------|
| R F   |                       |        |

TRIB ☐ SC ☐ FC ☐ SWP/SLG ☐ FL/BV ☐

## HABITAT QUALITY

| Name             | Comments                                                                                      |
|------------------|-----------------------------------------------------------------------------------------------|
| Rearing Habitat  | poor-very steep with several (but small) pools, steep chute located 70m u/s of the confluence |
| Spawning Habitat | no spawning habitat observed                                                                  |

## PHOTO DOCUMENTATION

| Photo     | Foc | Lg | Dir                               | Comments |
|-----------|-----|----|-----------------------------------|----------|
| R 26 F 10 | STD | U  | aerial shot of waterfall at mouth |          |
| R 26 F 11 | STD | U  | meter stick                       |          |
| R 26 F 12 | STD | D  | 2 people at confluence            |          |
| R 26 F 13 | STD | U  | Brad and barrier 170m u/s         |          |

## WILDLIFE

## COMMENT

| Section   | Comments                                                               |
|-----------|------------------------------------------------------------------------|
| SITE CARD | QA/QC site with Brad Pollard                                           |
| CHANNEL   | this is a steep creek (>20%) before the presence of barrier (3m falls) |



# FDIS Fish Form

1999/01/22

Reach # 1 ILP Map # 93L.011 ILP # 928

Watershed Code: 000-000000-00000-00000-0000-0000-000-000-000-000-000

## WATERBODY

Gazetted Name:

Local:

WS Code: 000-000000-00000-00000-0000-0000-000-000-000-000-000

Lake/Stream: S

Waterbody ID:

ILP Map #: 93L.011

ILP #: 928

Project ID:

06-ZYMO-000000325-1999

Reach #: 1

Fish Permit #: 34770-20

Date: 1998/10/14

To: 1998/10/14

Agency C172

Crew: SMJ/TMM

Resample: ☐

## SITE / METHOD

| Site# | NID Map | NID # | UTM:Zone/East/North/Mthd | MTD/NO | Temp | Cond | Turbid | Comment |
|-------|---------|-------|--------------------------|--------|------|------|--------|---------|
| 9102  | 93L.011 | 9102  |                          | EF 1   | 2.5  | 60   | C      |         |

## A. GEAR SETTINGS

| Site# | MTD/NO | H/P | Date In    | Time In | Date Out   | Time Out | Comment |
|-------|--------|-----|------------|---------|------------|----------|---------|
| 9102  | EF 1   | 1   | 1998/10/14 | 14:10   | 1998/10/14 | 14:30    |         |

## B. NET/TRAP SPECIFICATIONS

## C. ELECTROFISHER SPECIFICATIONS

| Site# | MTD/NO | H/P | Encl | Sec | Length | Width | Volt | Freq | Pulse | Make      | Model |
|-------|--------|-----|------|-----|--------|-------|------|------|-------|-----------|-------|
| 9102  | EF 1   | 1   | O    | 218 | 75.0   | 2.5   | 500  | 70   | 8     | SMITHROOT | 12B   |

## FISH SUMMARY

| Site# | MTD/NO | H/P | Species | Stage | Age | Total # | Lgth (Min/Max) | FishAct | Comment |
|-------|--------|-----|---------|-------|-----|---------|----------------|---------|---------|
| 9102  | EF     | 1 1 | NFC     |       |     | 0       |                |         |         |

## INDIVIDUAL FISH DATA

## COMMENTS

Section  
WATERBODY

Comments

20-30 cm fish observed in mainstem at confluence, but no fish observed within the site

# FDIS Reach Card

Reach #    ILP Map #    ILP #

1999/01/22

1

Watershed Code: 440-256900-47600-00000-00000-0000-000-000-000-000-000

## PROJECT

Project Name    Skeena Cellulose Fish Inventory    Project Code    06-ZYMO-000000325-1999

Stream Name (gaz.)    CLORE RIVER

Project Watershed Code    440-256900-00000-00000-00000-0000-000-000-000-000-000

## WATERSHED

Reach Watershed Code    440-256900-47600-00000-00000-0000-000-000-000-000-000

ILP Map #    ILP #    Reach #    NID Map #    NID #    UTM(Zone/East/North/Method)

1.0    93L.021    9231

Gazetted Name    Local Name    Sample Type    B    Wetland ☐

## SURVEY INFO

Date    1998/09/16    Agency    C172    Crew    SMJ/TMM

## ATTRIBUTES

Length (km)    .90    US Elev    555    DISTURBANCE    O1    B1    B2    B3    D1    D2    D3

DS Elev.    530    Magnitude    143    INDICATORS    ☐    ☐    ☐    ☐    ☐    ☐    ☐

Gradient    2.78    Order    5    BGC Zone    CWH    C1    C2    C3    C4    C5    S1    S2    S3    S4    S5

Setting    VF    ☐    ☐    ☐    ☐    ☐    ☐    ☐    ☐    ☐    ☐

Islands    N

Open water    A    Bars    ☒ N    ☐ SIDE    ☐ DIAG    ☐ MID    ☐ SPAN    ☐ BR

Confinement    CO    Mass Movement    M

Coupling    PC    Riparian Veg.    C

Valley Flat    N    C/D    Exposed/Eroded    NV

Active Floodplain    Visible ☐ Est. Width:    Landuse    NO

Channel Pattern    SI

## MAPS

Map Type    Map #    Year

TRIM    93L.031    1990

TRIM    93L.021    1990

## AIR PHOTOS

## FEATURES

## PHOTOS

## COMMENTS

# FDIS Site Card

1999/01/22

Watershed Code:

Reach # 1-  
ILP Map #  
ILP Number  
Site 9103  
440-256900-47600-00000-00000-00000-00000-00000-00000

## PROJECT

Project Name Skeena Cellulose Fish Inventory Project Code 06-ZYMO-000000325-1999  
Stream Name (gaz.) CLORE RIVER  
Project Watershed Code 440-256900-00000-00000-00000-00000-00000-00000-00000-00000

## WATERSHED

Gazetted Name Local Name  
Watershed Code 440-256900-47600-00000-00000-00000-00000-00000-00000-00000  
ILP Map# ILP # Reach # 1  
Site # NID Map # NID # UTM(Zone/East/North/Method) Site Lg Method Access Fish Crd?  
9103 93L.021 9103 200 GE H ☒  
Date 1998/10/14 Time 15:36 Agency C172 Crew SMJ/TMM Incomplete ☒

## CHANNEL

|                   | method | width | width | width | width | width | width | width | width | width | width | width |
|-------------------|--------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| Channel Width (m) | T      | 37.1  | 30.2  | 21.3  | 27.1  | 22.3  | 30.7  |       |       |       |       |       |
| Wetted Width (m)  | T      | 5.1   | 5.2   | 4.8   | 5.7   | 6.1   | 6.8   |       |       |       |       |       |
| Pool Depth (m)    | MS     | 0.80  | 0.65  | 1.00  | 0.75  | 0.85  | 0.90  |       |       |       |       |       |

|           | grad | grad | method |  | Wb Depth   | 3.0                                   | 2.5                        | 2.7                        | Method | MS |
|-----------|------|------|--------|--|------------|---------------------------------------|----------------------------|----------------------------|--------|----|
| Method I  | 5.0  | 3.0  | C      |  | Stage      | <input checked="" type="checkbox"/> L | <input type="checkbox"/> M | <input type="checkbox"/> H |        |    |
| Method II | 4.0  |      | C      |  | No Vis.Ch. | <input type="checkbox"/>              | Intermittent               | <input type="checkbox"/>   |        |    |
|           |      |      |        |  | Dw         | <input type="checkbox"/>              | Tribs.                     | <input type="checkbox"/>   |        |    |

| COVER   | SWD                        | LWD                        | B                                     | C                          | Total DP                              | OV                         | M IV |
|---------|----------------------------|----------------------------|---------------------------------------|----------------------------|---------------------------------------|----------------------------|------|
| T       | T                          | S                          | S                                     | D                          | N                                     | N                          |      |
| LWD     | F                          |                            |                                       |                            |                                       |                            |      |
| DIST    | E                          |                            |                                       |                            |                                       |                            |      |
| LB SHP  | V                          |                            |                                       |                            |                                       |                            |      |
| Texture | <input type="checkbox"/> F | <input type="checkbox"/> G | <input type="checkbox"/> C            | <input type="checkbox"/> B | <input checked="" type="checkbox"/> R | <input type="checkbox"/> A |      |
| RB SHP  | U                          |                            |                                       |                            |                                       |                            |      |
| Texture | <input type="checkbox"/> F | <input type="checkbox"/> G | <input checked="" type="checkbox"/> C | <input type="checkbox"/> B | <input type="checkbox"/> R            | <input type="checkbox"/> A |      |

## CROWN CLOSURE

0 0%

INTREAM VEG ☐ N ☒ A ☐ M ☐ V  
RIP M  
STG MF  
RIP M  
STG MF

## WATER

### FLOOD SIGNS

SCoured BANKS 2-3M Method GE  
Temp 3 Metho T3  
pH 8.3 Method P1

### Req #

### EMS

Cond. 40 Method: S4  
Turb. ☐ T ☐ M ☒ L ☐ C Method: GE

## MORPHOLOGY

BED MATERIAL Dominant: B Subdom: C  
D95: 60 D (cm): 35 Morph: RP

### DISTURBANCE INDICATORS

| 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"/> |                          |                                     |                          |
| C1                       | C2                       | C3                                  | C4                       | C5                       | S1                       | S2                       | S3                       | S4                                  | S5                       |
| <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"/> |

Pattern IR  
Islands N

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

Coupling PC

Confinement FC

# FDIS Site Card

Reach # ILP Map # ILP Number Site

1—

9103

1999/01/22

Watershed Code: 440-256900-47600-00000-0000-0000-000-000-000-000-000

## FEATURE

TRIB ☐ SC ☐ FC ☐ SWP/SLG ☐ FL/BV ☐

## HABITAT QUALITY

| Name               | Comments                                                          |
|--------------------|-------------------------------------------------------------------|
| OverWinter Habitat | present in deep runs and pools                                    |
| Rearing Habitat    | excellent with good, deep runs and lots of boulder and bank cover |
| Spawning Habitat   | none observed                                                     |

## PHOTO DOCUMENTATION

| Photo | Foc | Lg | Dir | Comments |                  |
|-------|-----|----|-----|----------|------------------|
| R 26  | F   | 17 | STD | U        | Steve in channel |
| R 26  | F   | 18 | STD | D        | Tania in channel |

## WILDLIFE

## COMMENT

# FDIS Fish Form

1999/01/22

Reach # 1 ILP Map # ILP #

Watershed Code: 440-256900-47600-00000-0000-0000-000-000-000-000-000

## WATERBODY

Gazetted Name:

Local:

WS Code: 440-256900-47600-00000-0000-0000-000-000-000-000-000

Lake/Stream: S

Waterbody ID:

ILP Map #:

ILP #:

Project ID: 06-ZYMO-000000325-1999

Reach #: 1

Fish Permit #: 34770-20

Date: 1998/10/14

To: 1998/10/14

Agency C172

Crew: SMJ/TMM

Resample: ☐

## SITE / METHOD

| Site# | NID Map | NID # | UTM:Zone/East/North/Mthd | MTD/NO | Temp | Cond | Turbid | Comment |
|-------|---------|-------|--------------------------|--------|------|------|--------|---------|
| 9103  | 93L.021 | 9103  |                          | EF 1   | 3.0  | 40   | L      |         |

## A. GEAR SETTINGS

| Site# | MTD/NO | H/P | Date In    | Time In | Date Out   | Time Out | Comment |
|-------|--------|-----|------------|---------|------------|----------|---------|
| 9103  | EF 1   | 1   | 1998/10/14 | 15:45   | 1998/10/14 | 16:00    |         |

## B. NET/TRAP SPECIFICATIONS

## C. ELECTROFISHER SPECIFICATIONS

| Site# | MTD/NO | H/P | Encl | Sec | Length | Width | Volt | Freq | Pulse | Make      | Model |
|-------|--------|-----|------|-----|--------|-------|------|------|-------|-----------|-------|
| 9103  | EF 1   | 1   | O    | 223 | 70.0   | 5.0   | 500  | 70   | 8     | SMITHROOT | 12B   |

## FISH SUMMARY

| Site# | MTD/NO | H/P | Species | Stage | Age | Total # | Lgth (Min/Max) | FishAct | Comment                       |
|-------|--------|-----|---------|-------|-----|---------|----------------|---------|-------------------------------|
| 9103  | EF 1   | 1   | BT      | A     |     | 1       | 160 160        | R       | one other BT @ 230mm was VO'd |

## INDIVIDUAL FISH DATA

| Site# | MTD/NO | H/P | Species | Length | Weight | Sex | Mat | Age<br>Str/Smpl#/Age | Vch# | Genetic<br>Str/Smpl# | Roll # | Frame# | Comment                             |
|-------|--------|-----|---------|--------|--------|-----|-----|----------------------|------|----------------------|--------|--------|-------------------------------------|
| 9103  | EF 1   | 1   | BT      | 160    |        | U   | M   |                      | 3    |                      | 26     | 14-16  | voucher labelle<br>SJ01 in the fiel |

## COMMENTS

# FDIS Reach Card

Reach #    ILP Map #    ILP #

1999/01/22

1

Watershed Code: 440-256900-41700-00000-00000-0000-000-000-000-000-000

## PROJECT

Project Name    Skeena Cellulose Fish Inventory    Project Code    06-ZYMO-000000325-1999

Stream Name (gaz.)    CLORE RIVER

Project Watershed Code    440-256900-00000-00000-00000-0000-000-000-000-000-000

## WATERSHED

Reach Watershed Code    440-256900-41700-00000-00000-0000-000-000-000-000-000

ILP Map #    ILP #    Reach #    NID Map #    NID #    UTM(Zone/East/North/Method)

1.0    93L.021    8721

Gazetted Name    Local Name    Sample Type    B    Wetland ☐

## SURVEY INFO

Date    1998/09/16    Agency    C172    Crew    SMJ/TMM

## ATTRIBUTES

Length (km)    .70    US Elev    660    DISTURBANCE    O1    B1    B2    B3    D1    D2    D3

DS Elev.    470    Magnitude    9    INDICATORS    ☐    ☐    ☐    ☐    ☐    ☐    ☐

Gradient    27.14    Order    3    BGC Zone    CWH    C1    C2    C3    C4    C5    S1    S2    S3    S4    S5

Setting    VW    ☐    ☐    ☐    ☐    ☐    ☐    ☐    ☐    ☐    ☐

Open water    A    Islands    N

Confinement    EN    Bars    ☒ N    ☐ SIDE    ☐ DIAG    ☐ MID    ☐ SPAN    ☐ BR

Coupling    CO    Mass Movement    H

Valley Flat    N    C/D    Riparian Veg.    C

Active Floodplain    Visible ☐ Est. Width:    Exposed/Eroded    NV

Channel Pattern    SI    Landuse    NO

## MAPS

Map Type    Map #    Year

TRIM    93L.021    1990

## AIR PHOTOS

Line    Number

## FEATURES

NID Map    93L.021    NID:    5025

Type:    F    Height:    40.0    Method:

Length:    Method:

Photo:    R    F    Comments:

UTM (Zone/East/North)

## PHOTOS



# FDIS Site Card

1999/01/22

Watershed Code:

Reach # 1  
ILP Map #  
ILP Number  
Site 9104  
440-256900-41700-00000-00000-00000-00000-00000-00000-00000

## PROJECT

Project Name Skeena Cellulose Fish Inventory Project Code 06-ZYMO-000000325-1999  
Stream Name (gaz.) CLORE RIVER  
Project Watershed Code 440-256900-00000-00000-00000-00000-00000-00000-00000-00000

## WATERSHED

Gazetted Name Local Name  
Watershed Code 440-256900-41700-00000-00000-00000-00000-00000-00000-00000  
ILP Map# ILP # Reach # 1  
Site # NID Map # NID # UTM(Zone/East/North/Method) Site Lg Method Access Fish Crd?  
9104 93L.021 9104 100 GE H ☒  
Date 1998/10/14 Time 16:45 Agency C172 Crew SMJ/TMM Incomplete ☐

## CHANNEL

|                   | method | width | width | width | width | width | width | width | width | width | width |
|-------------------|--------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| Channel Width (m) | T      | 7.9   | 6.7   | 6.8   | 6.2   | 6.7   | 5.9   |       |       |       |       |
| Wetted Width (m)  | T      | 5.8   | 3.3   | 3.6   | 3.1   | 3.4   | 2.9   |       |       |       |       |
| Pool Depth (m)    | MS     | 0.35  | 0.25  | 0.39  | 0.43  | 0.71  | 0.43  |       |       |       |       |

|           | grad | grad | method |  | Wb Depth | .8 | .9 | .7 | Method |
|-----------|------|------|--------|--|----------|----|----|----|--------|
| Method I  | 15.0 | 11.0 | C      |  |          |    |    |    | MS     |
| Method II | 9.0  |      | C      |  |          |    |    |    |        |

| COVER   | SWD                                                                                                                                                                          | LWD | B | C | Total DP | OV | A |
|---------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----|---|---|----------|----|---|
|         | T                                                                                                                                                                            | S   | S | T | D        | N  | N |
| LWD     | A                                                                                                                                                                            |     |   |   |          |    |   |
| DIST    | C                                                                                                                                                                            |     |   |   |          |    |   |
| LB SHP  | V                                                                                                                                                                            |     |   |   |          |    |   |
| Texture | <input type="checkbox"/> F <input type="checkbox"/> G <input type="checkbox"/> C <input checked="" type="checkbox"/> B <input type="checkbox"/> R <input type="checkbox"/> A |     |   |   |          |    |   |
| RB SHP  | V                                                                                                                                                                            |     |   |   |          |    |   |
| Texture | <input type="checkbox"/> F <input type="checkbox"/> G <input type="checkbox"/> C <input checked="" type="checkbox"/> B <input type="checkbox"/> R <input type="checkbox"/> A |     |   |   |          |    |   |

| CROWN CLOSURE | 3 | 41-70% |
|---------------|---|--------|
|               |   |        |

| INTREAM VEG | <input type="checkbox"/> N | <input checked="" type="checkbox"/> A | <input checked="" type="checkbox"/> M | <input type="checkbox"/> V |
|-------------|----------------------------|---------------------------------------|---------------------------------------|----------------------------|
| RIP         | C                          |                                       |                                       |                            |
| STG         | MF                         |                                       |                                       |                            |
| RIP         | C                          |                                       |                                       |                            |
| STG         | MF                         |                                       |                                       |                            |

## WATER

FLOOD SIGNS  
SCoured BANKS@1.5M Method GE  
Temp 4 Metho T3  
pH 7.6 Method P1  
Req #  
EMS  
Cond. 10 Method: S4  
Turb. ☐ T ☐ M ☐ L ☒ C Method: GE

## MORPHOLOGY

BED MATERIAL Dominant: B Subdom: C DISTURBANCE INDICATORS O1 B1 B2 B3 D1 D2 D3  
D95: 70 D (cm): 7 Morph: CP ☐ ☒ ☒ ☐ ☐ ☒ ☐  
Pattern SI C1 C2 C3 C4 C5 S1 S2 S3 S4 S5  
Islands N ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☒ ☐  
Bars ☐ N ☒ SIDE ☒ DIAG ☒ MID ☐ SPAN ☐ BR  
Coupling CO  
Confinement CO



# FDIS Site Card

1999/01/22

Watershed Code:

440-256900-41700-00000-0000-0000-000-000-000-000

Reach #

ILP Map #

ILP Number

Site

1—

9104

## FEATURE

TRIB ☐ SC ☐ FC ☐ SWP/SLG ☐ FL/BV ☐

## HABITAT QUALITY

| Name               | Comments                                         |
|--------------------|--------------------------------------------------|
| OverWinter Habitat | possible in deeper pools                         |
| Rearing Habitat    | excellent with good pools, cover and LWD         |
| Spawning Habitat   | isolated patches but only in lower 100m of creek |

## PHOTO DOCUMENTATION

| Photo | Foc | Lg | Dir | Comments |                                         |
|-------|-----|----|-----|----------|-----------------------------------------|
| R 26  | F   | 19 | STD | U        | LWD cascade                             |
| R 26  | F   | 20 | STD | D        | Steve just u/s of confluence with Clore |
| R 26  | F   | 21 | STD | U        | channel and far bank                    |

## WILDLIFE

## COMMENT

| Section | Comments                                                                                              |
|---------|-------------------------------------------------------------------------------------------------------|
| CHANNEL | the lower 80m of the creek is disturbed by channel migrating and eroding banks and abundant LWD fall. |
| CHANNEL | substantial bedload movement and elevated bars in lower 100m                                          |

# FDIS Fish Form

1999/01/22

Reach # 1  
ILP Map #  
ILP #

Watershed Code: 440-256900-41700-00000-0000-0000-000-000-000-000-000

## WATERBODY

Gazetted Name:

Local:

WS Code: 440-256900-41700-00000-0000-0000-000-000-000-000-000

Lake/Stream: S

Waterbody ID:

ILP Map #:

ILP #:

Project ID: 06-ZYMO-000000325-1999

Reach #: 1

Fish Permit #: 34770-20

Date: 1998/10/14

To: 1998/10/14

Agency C172

Crew: SMJ/TMM

Resample: ☐

## SITE / METHOD

| Site# | NID Map | NID # | UTM:Zone/East/North/Mthd | MTD/NO | Temp | Cond | Turbid | Comment |
|-------|---------|-------|--------------------------|--------|------|------|--------|---------|
| 9104  | 93L.021 | 9104  |                          | EF 1   | 4.0  | 10   | C      |         |

## A. GEAR SETTINGS

| Site# | MTD/NO | H/P | Date In    | Time In | Date Out   | Time Out | Comment |
|-------|--------|-----|------------|---------|------------|----------|---------|
| 9104  | EF 1   | 1   | 1998/10/14 | 16:45   | 1998/10/14 | 17:00    |         |

## B. NET/TRAP SPECIFICATIONS

## C. ELECTROFISHER SPECIFICATIONS

| Site# | MTD/NO | H/P | Encl | Sec | Length | Width | Volt | Freq | Pulse | Make      | Model |
|-------|--------|-----|------|-----|--------|-------|------|------|-------|-----------|-------|
| 9104  | EF 1   | 1   | O    | 203 | 105.0  | 3.0   | 500  | 60   | 6     | SMITHROOT | 12B   |

## FISH SUMMARY

| Site# | MTD/NO | H/P | Species | Stage | Age | Total # | Lgth (Min/Max) | FishAct | Comment |
|-------|--------|-----|---------|-------|-----|---------|----------------|---------|---------|
| 9104  | EF 1   | 1   | DV      | J     |     | 1       | 72 72          | R       |         |

## INDIVIDUAL FISH DATA

| Site# | MTD/NO | H/P | Species | Length | Weight | Sex | Mat | Age<br>Str/Smpl#/Age | Vch# | Genetic<br>Str/Smpl# | Roll # | Frame# | Comment        |
|-------|--------|-----|---------|--------|--------|-----|-----|----------------------|------|----------------------|--------|--------|----------------|
| 9104  | EF 1   | 1   | DV      | 72     |        | U   | IM  |                      |      |                      | 26     | 22     | Bstgl. count = |

## COMMENTS

# FDIS Reach Card

1999/01/22

Reach # 1 ILP Map # 103I.040 ILP # 97

Watershed Code: 000-000000-00000-00000-0000-0000-000-000-000-000-000

## PROJECT

Project Name Skeena Cellulose Fish Inventory Project Code 06-ZYMO-000000325-1999  
Stream Name (gaz.) CLORE RIVER  
Project Watershed Code 440-256900-00000-00000-0000-0000-000-000-000-000-000

## WATERSHED

Reach Watershed Code 000-000000-00000-00000-0000-0000-000-000-000-000-000  
ILP Map # 103I.040 ILP # 97 Reach # 1.0 NID Map # 103I.050 NID # 971 UTM(Zone/East/North/Method)  
Gazetted Name Local Name Sample Type B Wetland ☐  
trib to Trapline Creek

## SURVEY INFO

Date 1998/09/16 Agency C172 Crew SMJ/TMM

## ATTRIBUTES

Length (km) .20 US Elev 640 DISTURBANCE O1 B1 B2 B3 D1 D2 D3  
DS Elev. 600 Magnitude 1 INDICATORS ☐ ☐ ☐ ☐ ☐ ☐ ☐  
Gradient 20 Order 1 BGC Zone CWH C1 C2 C3 C4 C5 S1 S2 S3 S4 S5  
Setting VW Islands N  
Open water A Bars ☒ N ☐ SIDE ☐ DIAG ☐ MID ☐ SPAN ☐ BR  
Confinement OC Mass Movement M  
Coupling DC Riparian Veg. C  
Valley Flat N C/D Exposed/Eroded NV  
Active Floodplain Visible ☐ Est. Width: Landuse FR  
Channel Pattern ST

## MAPS

Map Type Map # Year  
TRIM 103I.040 1990  
TRIM 103I.050 1991

## AIR PHOTOS

Line Number  
BCB8019 95-97

## FEATURES

## PHOTOS

## COMMENTS

# FDIS Site Card

1999/01/22

Watershed Code:

Reach # 1 ILP Map # 103I.040 ILP Number 97 Site 9105  
000-000000-00000-00000-0000-0000-000-000-000-000-000-000

## PROJECT

Project Name Skeena Cellulose Fish Inventory Project Code 06-ZYMO-000000325-1999  
Stream Name (gaz.) CLORE RIVER  
Project Watershed Code 440-256900-00000-00000-0000-0000-000-000-000-000-000

## WATERSHED

Gazetted Name Local Name trib to Trapline Creek  
Watershed Code 000-000000-00000-00000-0000-0000-000-000-000-000-000  
ILP Map# 103I.040 ILP # 97 Reach # 1  
Site # NID Map # NID # UTM(Zone/East/North/Method) Site Lg Method Access Fish Crd?  
9105 103I.050 9105 100 HC H ☒  
Date 1998/10/15 Time 11:30 Agency C172 Crew SMJ/TMM Incomplete ☐

## CHANNEL

|                   | method | width | width | width | width | width | width | width | width | width | width | width |
|-------------------|--------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| Channel Width (m) | T      | 32.0  | 4.3   | 4.3   | 3.1   | 3.0   | 3.5   | 2.5   |       |       |       |       |
| Wetted Width (m)  | T      | 1.6   | 1.2   | 1.4   | 1.3   | 1.4   | 2.0   | 2.0   |       |       |       |       |
| Pool Depth (m)    | MS     | 0.15  | 0.10  | 0.25  | 0.25  | 0.15  | 0.20  |       |       |       |       |       |

|           | grad | grad | method |  | Wb Depth |    |    |  | Method |
|-----------|------|------|--------|--|----------|----|----|--|--------|
| Method I  | 10.0 | 13.0 | C      |  | .7       | .8 | .9 |  | MS     |
| Method II | 15.0 |      | C      |  |          |    |    |  |        |

| COVER   | SWD                                                                                                                                                                          | LWD | B | C | Total DP | OV | A IV |  | CROWN CLOSURE                                                                                                                                 |
|---------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----|---|---|----------|----|------|--|-----------------------------------------------------------------------------------------------------------------------------------------------|
| T       | T                                                                                                                                                                            | D   | T | S | T        | N  |      |  | 3 41-70%                                                                                                                                      |
| LWD     | F                                                                                                                                                                            |     |   |   |          |    |      |  | INTREAM VEG <input type="checkbox"/> N <input checked="" type="checkbox"/> A <input checked="" type="checkbox"/> M <input type="checkbox"/> V |
| DIST    | C                                                                                                                                                                            |     |   |   |          |    |      |  | RIP C                                                                                                                                         |
| LB SHP  | V                                                                                                                                                                            |     |   |   |          |    |      |  | STG MF                                                                                                                                        |
| Texture | <input type="checkbox"/> F <input type="checkbox"/> G <input checked="" type="checkbox"/> C <input type="checkbox"/> B <input type="checkbox"/> R <input type="checkbox"/> A |     |   |   |          |    |      |  | RIP C                                                                                                                                         |
| RB SHP  | V                                                                                                                                                                            |     |   |   |          |    |      |  | STG MF                                                                                                                                        |
| Texture | <input type="checkbox"/> F <input type="checkbox"/> G <input checked="" type="checkbox"/> C <input type="checkbox"/> B <input type="checkbox"/> R <input type="checkbox"/> A |     |   |   |          |    |      |  |                                                                                                                                               |

## WATER

FLOOD SIGNS Req #  
SCoured BANKS@.5M Method GE EMS 40  
Temp 4 Metho T3 Cond. Method: S4  
pH 8.0 Method P1 Turb. ☐ T ☐ M ☐ L ☒ C Method: GE

## MORPHOLOGY

BED MATERIAL Dominant: B Subdom: C DISTURBANCE INDICATORS O1 B1 B2 B3 D1 D2 D3  
D95: 40 D (cm): 20 Morph: CP ☐ ☐ ☐ ☐ ☐ ☐ ☐  
Pattern SI C1 C2 C3 C4 C5 S1 S2 S3 S4 S5  
Islands N ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐  
Bars ☐ N ☒ SIDE ☒ DIAG ☐ MID ☐ SPAN ☐ BR  
Coupling DC  
Confinement OC

# FDIS Site Card

1999/01/22

Watershed Code:

| Reach # | ILP Map # | ILP Number | Site |
|---------|-----------|------------|------|
| 1—      | 103I.040  | 97         | 9105 |

000-000000-00000-00000-0000-0000-000-000-000-000-000

## FEATURE

TRIB ☐ SC ☐ FC ☐ SWP/SLG ☐ FL/BV ☐

## HABITAT QUALITY

| Name             | Comments                                                                                             |
|------------------|------------------------------------------------------------------------------------------------------|
| Rearing Habitat  | fair-shallow pools with little LWD. Mostly shallow riffle and cascade with several drops .5-.7m high |
| Spawning Habitat | isolated patches for resident fish                                                                   |

## PHOTO DOCUMENTATION

| Photo | Foc | Lg | Dir | Comments |                                                        |
|-------|-----|----|-----|----------|--------------------------------------------------------|
| R 26  | F   | 25 | STD | U        | Steve in the channel                                   |
| R 26  | F   | 26 | STD | D        | glove and channel and confluence with Trapline Creek   |
| R 26  | F   | 33 | STD | D        | taken 100m u/s from the confluence with Trapline Creek |
| R 26  | F   | 34 | STD | D        | taken 100m u/s from the confluence with Trapline Creek |

## WILDLIFE

## COMMENT

| Section | Comments                                                                                                                            |
|---------|-------------------------------------------------------------------------------------------------------------------------------------|
| CHANNEL | the stream is unlikely to support fish since a barrier exists on Trapline Creek d/s from the confluence of this creek and Trapline. |

# FDIS Fish Form

1999/01/22

Reach #

1

ILP Map #

103I.040

ILP #

97

Watershed Code:

000-000000-00000-00000-0000-000-000-000-000-000-000

WATERBODY

Gazetted Name:

Local: trib to Trapline Creek

WS Code:

000-000000-00000-00000-0000-000-000-000-000-000-000

Lake/Stream: S

Waterbody ID:

ILP Map #: 103I.040

ILP #: 97

Project ID:

06-ZYMO-000000325-1999

Reach #: 1

Fish Permit #:

34770-20

Date:

1998/10/15

To:

1998/10/15

Agency

C172

Crew:

SMJ/TMM

Resample:

☐

| SITE / METHOD |          |       |                          |        |      |      |        |         |  |
|---------------|----------|-------|--------------------------|--------|------|------|--------|---------|--|
| Site#         | NID Map  | NID # | UTM:Zone/East/North/Mthd | MTD/NO | Temp | Cond | Turbid | Comment |  |
| 9105          | 103I.050 | 9105  |                          | EF 1   | 4.0  | 40   | C      |         |  |

| A. GEAR SETTINGS |        |   |     |            |         |            |          |         |  |
|------------------|--------|---|-----|------------|---------|------------|----------|---------|--|
| Site#            | MTD/NO |   | H/P | Date In    | Time In | Date Out   | Time Out | Comment |  |
| 9105             | EF     | 1 | 1   | 1998/10/15 | 11:35   | 1998/10/15 | 11:48    |         |  |

## B. NET/TRAP SPECIFICATIONS

| C. ELECTROFISHER SPECIFICATIONS |        |     |      |     |        |       |      |      |       |           |       |
|---------------------------------|--------|-----|------|-----|--------|-------|------|------|-------|-----------|-------|
| Site#                           | MTD/NO | H/P | Encl | Sec | Length | Width | Volt | Freq | Pulse | Make      | Model |
| 9105                            | EF 1   | 1   | O    | 275 | 100.0  | 2.0   | 500  | 70   | 6     | SMITHROOT | 12B   |

| FISH SUMMARY |        |     |         |       |     |         |                |         |         |
|--------------|--------|-----|---------|-------|-----|---------|----------------|---------|---------|
| Site#        | MTD/NO | H/P | Species | Stage | Age | Total # | Lgth (Min/Max) | FishAct | Comment |
| 9105         | EF     | 1 1 | NFC     |       |     | 0       |                |         |         |

## INDIVIDUAL FISH DATA

## COMMENTS

FDIS Reach Card

1999/01/22

Reach # 1 ILP Map # 103I.050 ILP # 93

Watershed Code: 000-000000-00000-00000-0000-0000-000-000-000-000-000-000

PROJECT

Project Name Skeena Cellulose Fish Inventory Project Code 06-ZYMO-000000325-1999  
Stream Name (gaz.) CLORE RIVER  
Project Watershed Code 440-256900-00000-00000-0000-0000-000-000-000-000-000-000

WATERSHED

Reach Watershed Code 000-000000-00000-00000-0000-0000-000-000-000-000-000-000  
ILP Map # 103I.050 ILP # 93 Reach # 1.0 NID Map # 103I.050 NID # 931 UTM(Zone/East/North/Method)  
Gazetted Name Local Name Sample Type B Wetland ☐  
trib to Trapline Creek

SURVEY INFO

Date 1998/09/16 Agency C172 Crew SMJ/TMM

ATTRIBUTES

Length (km) .40 US Elev 640 DISTURBANCE INDICATORS O1 B1 B2 B3 D1 D2 D3  
DS Elev. 560 Magnitude 3  
Gradient 20 Order 2 BGC Zone CWH C1 C2 C3 C4 C5 S1 S2 S3 S4 S5  
Setting VW Islands N  
Open water A Bars ☒ N ☐ SIDE ☐ DIAG ☐ MID ☐ SPAN ☐ BR  
Confinement CO Mass Movement H  
Coupling PC Riparian Veg. C  
Valley Flat N C/D Exposed/Eroded NV  
Active Floodplain Visible ☐ Est. Width: Landuse FR  
Channel Pattern ST

MAPS

Map Type Map # Year  
TRIM 103I.050 1991

AIR PHOTOS

Line Number  
BCB8019 97-198  
BCB8019 96-97

FEATURES

PHOTOS



1999/01/22

Watershed Code:

| Reach # | ILP Map # | ILP Number | Site |
|---------|-----------|------------|------|
| 1—      | 1031.050  | 93         | 9106 |

|                        |                                                          |              |                        |
|------------------------|----------------------------------------------------------|--------------|------------------------|
| Project Name           | Skeena Cellulose Fish Inventory                          | Project Code | 06-ZYMO-000000325-1999 |
| Stream Name (gaz.)     | CLORE RIVER                                              |              |                        |
| Project Watershed Code | 440-256900-00000-00000-0000-0000-000-000-000-000-000-000 |              |                        |

|                                                                     |            |            |                             |            |         |  |  |                        |                          |        |                                     |
|---------------------------------------------------------------------|------------|------------|-----------------------------|------------|---------|--|--|------------------------|--------------------------|--------|-------------------------------------|
| Gazetted Name                                                       |            |            |                             | Local Name |         |  |  | trib to Trapline Creek |                          |        |                                     |
| Watershed Code 000-000000-00000-00000-0000-0000-000-000-000-000-000 |            |            |                             |            |         |  |  |                        |                          |        |                                     |
| ILP Map# 1031.050                                                   |            |            |                             | ILP # 93   |         |  |  | Reach # 1              |                          |        |                                     |
| Site #                                                              | NID Map #  | NID #      | UTM(Zone/East/North/Method) |            |         |  |  | Site Lg                | Method                   | Access | Fish Crd?                           |
| 9106                                                                | 1031.050   | 9106       |                             |            |         |  |  | 150                    | HC                       | H      | <input checked="" type="checkbox"/> |
| Date                                                                | 1998/10/15 | Time 13:15 | Agency C172                 | Crew       | SMJ/TMM |  |  | Incomplete             | <input type="checkbox"/> |        |                                     |

|                   | method | width | width | width | width | width | width | width | width | width | width |
|-------------------|--------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| Channel Width (m) | T      | 5.7   | 5.4   | 4.9   | 4.3   | 4.7   | 4.7   | 4.9   | 4.3   |       |       |
| Wetted Width (m)  | T      | 3.1   | 2.8   | 2.1   | 1.7   | 1.9   | 1.5   | 1.7   | 1.5   |       |       |
| Pool Depth (m)    | MS     | 0.55  | 0.40  | 0.35  | 0.45  | 0.25  | 0.30  |       |       |       |       |

|                  | grad | grad | method |
|------------------|------|------|--------|
| <b>Method I</b>  | 12.0 | 22.0 | C      |
| <b>Method II</b> | 20.0 | 30.0 | C      |

|            |                            |                                       |                            |                          |    |
|------------|----------------------------|---------------------------------------|----------------------------|--------------------------|----|
| Wb Depth   | 1.1                        | .9                                    | .8                         | Method                   | MS |
| Stage      | <input type="checkbox"/> L | <input checked="" type="checkbox"/> M | <input type="checkbox"/> H |                          |    |
| No Vis.Ch. | <input type="checkbox"/>   | Intermittent                          |                            | <input type="checkbox"/> |    |
| Dw         | <input type="checkbox"/>   | Tribs.                                |                            | <input type="checkbox"/> |    |

| COVER   |                            |                            |                                       | Total                                 |                            | M                          |
|---------|----------------------------|----------------------------|---------------------------------------|---------------------------------------|----------------------------|----------------------------|
| SWD     | LWD                        | B                          | C                                     | DP                                    | OV                         | IV                         |
| T       | T                          | D                          | T                                     | S                                     | T                          | N                          |
| LWD     | F                          |                            |                                       |                                       |                            |                            |
| DIST    | C                          |                            |                                       |                                       |                            |                            |
| LB SHP  | V                          |                            |                                       |                                       |                            |                            |
| Texture | <input type="checkbox"/> F | <input type="checkbox"/> G | <input checked="" type="checkbox"/> C | <input type="checkbox"/> B            | <input type="checkbox"/> R | <input type="checkbox"/> A |
| RB SHP  | V                          |                            |                                       |                                       |                            |                            |
| Texture | <input type="checkbox"/> F | <input type="checkbox"/> G | <input type="checkbox"/> C            | <input checked="" type="checkbox"/> B | <input type="checkbox"/> R | <input type="checkbox"/> A |

CROWN CLOSURE

|   |        |
|---|--------|
| 3 | 41-70% |
|---|--------|

INTREAM VEG      ☐ N      ☒ A      ☒ M      ☐ V

RIP      C

STG      MF

RIP      C

STG      MF

## FLOOD SIGNS

| SCOURD BANKS @ 1M |     | Method | GE |
|-------------------|-----|--------|----|
| Temp              | 4   | Metho  | T3 |
| pH                | 8.4 | Method | P1 |

Req #

EMS

Cond. 60 Method: S4  
Turb. ☐ T ☐ M ☐ L ☒ C Method: GE

|              |                            |                                          |                                          |                              |                               |                             |                          |                          |                          |                          |                          |                          |                          |                          |                          |
|--------------|----------------------------|------------------------------------------|------------------------------------------|------------------------------|-------------------------------|-----------------------------|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|
| BED MATERIAL |                            | Dominant: B                              | Subdom: C                                | DISTURBANCE INDICATORS       |                               | O1                          | B1                       | B2                       | B3                       | D1                       | D2                       | D3                       |                          |                          |                          |
| D95:         | 60                         | D (cm): 5                                | Morph: CP                                |                              |                               | <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"/> |
| Bars         | <input type="checkbox"/> N | <input checked="" type="checkbox"/> SIDE | <input checked="" type="checkbox"/> DIAG | <input type="checkbox"/> MID | <input type="checkbox"/> SPAN | <input type="checkbox"/> BR |                          |                          |                          |                          |                          |                          |                          |                          |                          |
| Coupling     | PC                         |                                          |                                          |                              |                               |                             |                          |                          |                          |                          |                          |                          |                          |                          |                          |
| Confinement  | FC                         |                                          |                                          |                              |                               |                             |                          |                          |                          |                          |                          |                          |                          |                          |                          |

# FDIS Site Card

1999/01/22

Watershed Code:

|         |           |            |      |
|---------|-----------|------------|------|
| Reach # | ILP Map # | ILP Number | Site |
| 1 -     | 1031.050  | 93         | 9106 |

000-000000-00000-00000-0000-000-000-000-000-000-000

## FEATURE

TRIB ☐ SC ☐ FC ☐ SWP/SLG ☐ FL/BV ☐

## HABITAT QUALITY

| Name             | Comments                                                                                                                  |
|------------------|---------------------------------------------------------------------------------------------------------------------------|
| Rearing Habitat  | very steep - habitat exists in isolated pools with abundant cover but many steps exist with small (1m) falls obstructions |
| Spawning Habitat | poor-with only isolated pockets of gravel observed                                                                        |

## PHOTO DOCUMENTATION

| Photo | Foc | Lg | Dir | Comments |                                                                     |
|-------|-----|----|-----|----------|---------------------------------------------------------------------|
| R 26  | F   | 30 | STD | D        | Steve facing downstream 100m u/s of confluence with Trapline Creek  |
| R 26  | F   | 31 | STD | U        | S3 trib which joins LP93, 60m u/s of confluence with Trapline Creek |
| R 26  | F   | 27 | STD | NS       | DV captured 20m u/s in Trapline Creek (80mm) (Btgls = 24)           |
| R 26  | F   | 28 | STD | NS       | DV captured 20m u/s in Trapline Creek (80mm) (Bstgls = 24)          |
| R 26  | F   | 29 | STD | U        | Steve in channel 130m u/s of confluence with Trapline Creek         |

## WILDLIFE

## COMMENT

| Section | Comments                                                                                                                               |
|---------|----------------------------------------------------------------------------------------------------------------------------------------|
| CHANNEL | this creek has an S3 trib on the right bank 60m u/s of the confluence with Trapline.                                                   |
| CHANNEL | LP93 is >5m avg. channel width for the first 60m and then it changes to <5m avg. channel width u/s of the confluence with the S3 trib. |

## 1999/01/22

**Watershed Code:** 000-000000-00000-00000-0000-0000-000-000-000-000-000-000-000

Gazetted Name:

**WS Code:** 000-000000-00000-00000-0000-0000-000-000-000-000-000-000-000

Waterbody ID:

ILP Map #: 103I.050

ILP #: 93

Project ID: 06-ZYMO-000000325-1999

Reach #: 1

Fish Permit #: 34770-20

Date: 1998/10/15

To: 1998/10/15

Agency C172

Crew: SMJ/TMM

Resample: ☐

| Site# | NID Map  | NID # | UTM:Zone/East/North/Mthd | MTD/NO | Temp | Cond | Turbid | Comment |
|-------|----------|-------|--------------------------|--------|------|------|--------|---------|
| 9106  | 103I.050 | 9106  |                          | EF 1   | 4.0  | 60   | C      |         |

| Site# | MTD/NO | H/P | Date In    | Time In | Date Out   | Time Out | Comment |
|-------|--------|-----|------------|---------|------------|----------|---------|
| 9106  | EF 1   | 1   | 1998/10/15 | 15:15   | 1998/10/15 | 15:40    |         |

### C. ELECTROFISHER SPECIFICATIONS

| Site# | MTD/NO | H/P | Encl | Sec | Length | Width | Volt | Freq | Pulse | Make      | Model |
|-------|--------|-----|------|-----|--------|-------|------|------|-------|-----------|-------|
| 9106  | EF 1   | 1   | O    | 303 | 130.0  | 2.0   | 400  | 70   | 8     | SMITHROOT | 12B   |

| Site# | MTD/NO | H/P | Species | Stage | Age | Total # | Lgth (Min/Max) | FishAct | Comment                              |
|-------|--------|-----|---------|-------|-----|---------|----------------|---------|--------------------------------------|
| 9106  | EF     | 1   | 1       | DV    | J   | 1       | 80 80          | R       | fish caught within 30 m of the mouth |

| Site# | MTD/NO | H/P | Species | Length | Weight | Sex | Mat | Age<br>Str/Smpl#/Age | Vch# | Genetic<br>Str/Smpl# | Roll # | Frame# | Comment |
|-------|--------|-----|---------|--------|--------|-----|-----|----------------------|------|----------------------|--------|--------|---------|
| 9106  | EF     | 1   | 1       | DV     | 80     | U   | IM  |                      |      |                      | 26     | 31,32  |         |

## Section

## Comments

WATERBODY

observed two other DVs between 50 and 120mm. No fish caught in steep section.

# FDIS Reach Card

1999/01/22

Reach # 3  
ILP Map #  
ILP #

Watershed Code: 440-256900-02500-00000-0000-0000-000-000-000-000-000

## PROJECT

Project Name Skeena Cellulose Fish Inventory Project Code 06-ZYMO-000000325-1999  
Stream Name (gaz.) CLORE RIVER  
Project Watershed Code 440-256900-00000-00000-0000-0000-000-000-000-000-000

## WATERSHED

Reach Watershed Code 440-256900-02500-00000-0000-0000-000-000-000-000-000  
ILP Map # ILP # Reach # NID Map # NID # UTM(Zone/East/North/Method)  
3.0 103I.050 83  
Gazetted Name Local Name Sample Type B Wetland ☐

## SURVEY INFO

Date 1998/09/16 Agency C172 Crew SMJ/TMM

## ATTRIBUTES

Length (km) 1.10 US Elev 640 DISTURBANCE O1 B1 B2 B3 D1 D2 D3  
DS Elev. 540 Magnitude 11 INDICATORS ☐ ☐ ☐ ☐ ☐ ☐ ☐  
Gradient 9.09 Order 2 BGC Zone CWH C1 C2 C3 C4 C5 S1 S2 S3 S4 S5  
Setting VW ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐  
Islands N  
Open water A Bars ☒ N ☐ SIDE ☐ DIAG ☐ MID ☐ SPAN ☐ BR  
Confinement OC Mass Movement M  
Coupling PC Riparian Veg. M  
Valley Flat N C/D Exposed/Eroded NV  
Active Floodplain Visible ☐ Est. Width: Landuse FB  
Channel Pattern ST

## MAPS

Map Type Map # Year  
TRIM 103I.050 1991  
TRIM 93L.041 1990

## AIR PHOTOS

Line Number  
BCB8019 201  
BCB8019 220

## FEATURES

## PHOTOS

## COMMENTS



# FDIS Site Card

Reach #      ILP Map #      ILP Number      Site

3--

9107

1999/01/22

Watershed Code:

440-256900-02500-00000-0000-0000-000-000-000-000-000

## FEATURE

TRIB ☐    SC ☐    FC ☐    SWP/SLG ☐    FL/BV ☐

## HABITAT QUALITY

| Name             | Comments                                                                |
|------------------|-------------------------------------------------------------------------|
| Rearing Habitat  | possible in pools mainly, but steep creek with only small pools present |
| Spawning Habitat | very few patches observed in suitable situation for spawning.           |

## PHOTO DOCUMENTATION

| Photo          | Foc | Lg | Dir                          | Comments |
|----------------|-----|----|------------------------------|----------|
| R 23    F    1 | STD | U  | person and channel and slash |          |
| R 23    F    2 | STD | D  | glove and channel            |          |

## WILDLIFE

## COMMENT

| Section | Comments                                                                                             |
|---------|------------------------------------------------------------------------------------------------------|
| CHANNEL | reach in 5-10 year old clearcut with tons of slash and LWD left in channel which may cause problems. |
| CHANNEL | barrier falls located d/s is 40 m high                                                               |
| CHANNEL | stream classification - S5                                                                           |

# FDIS Fish Form

1999/01/22

Reach # 3 ILP Map # ILP #

Watershed Code: 440-256900-02500-00000-0000-0000-000-000-000-000-000

## WATERBODY

Gazetted Name:

Local:

WS Code: 440-256900-02500-00000-0000-0000-000-000-000-000-000

Lake/Stream: S

Waterbody ID:

ILP Map #:

ILP #:

Project ID: 06-ZYMO-000000325-1999

Reach #: 3

Fish Permit #: 34770-20

Date: 1998/10/16

To: 1998/10/16

Agency C172

Crew: SMJ/TMM

Resample: ☐

## SITE / METHOD

| Site# | NID Map  | NID # | UTM:Zone/East/North/Mthd | MTD/NO | Temp | Cond | Turbid | Comment |
|-------|----------|-------|--------------------------|--------|------|------|--------|---------|
| 9107  | 103I.050 | 9107  |                          | EF 1   | 4.0  | 50   | C      |         |

## A. GEAR SETTINGS

| Site# | MTD/NO | H/P | Date In    | Time In | Date Out   | Time Out | Comment |
|-------|--------|-----|------------|---------|------------|----------|---------|
| 9107  | EF 1   | 1   | 1998/10/16 | 09:35   | 1998/10/16 | 09:50    |         |

## B. NET/TRAP SPECIFICATIONS

## C. ELECTROFISHER SPECIFICATIONS

| Site# | MTD/NO | H/P | Encl | Sec | Length | Width | Volt | Freq | Pulse | Make      | Model |
|-------|--------|-----|------|-----|--------|-------|------|------|-------|-----------|-------|
| 9107  | EF 1   | 1   | O    | 222 | 750.0  | 2.0   | 400  | 60   | 6     | SMITHROOT | VII   |

## FISH SUMMARY

| Site# | MTD/NO | H/P | Species | Stage | Age | Total # | Lgth (Min/Max) | FishAct | Comment |
|-------|--------|-----|---------|-------|-----|---------|----------------|---------|---------|
| 9107  | EF     | 1 1 | NFC     |       |     | 0       |                |         |         |

## INDIVIDUAL FISH DATA

## COMMENTS



FDIS Reach Card

1999/01/22

Reach # 1  
ILP Map # 93L.031  
ILP # 1167

Watershed Code: 000-000000-00000-00000-0000-0000-000-000-000-000-000-000

PROJECT

Project Name Skeena Cellulose Fish Inventory Project Code 06-ZYMO-000000325-1999  
Stream Name (gaz.) CLORE RIVER  
Project Watershed Code 440-256900-00000-00000-0000-0000-000-000-000-000-000-000

WATERSHED

Reach Watershed Code 000-000000-00000-00000-0000-0000-000-000-000-000-000-000  
ILP Map # 93L.031 ILP # 1167 Reach # 1.0 NID Map # 93L.031 NID # 11671 UTM(Zone/East/North/Method)  
Gazetted Name Local Name Sample Type B Wetland ☐

SURVEY INFO

Date 1998/09/16 Agency C172 Crew SMJ/TMM

ATTRIBUTES

Length (km) .30 US Elev 330 DISTURBANCE INDICATORS O1 B1 B2 B3 D1 D2 D3  
DS Elev. 325 Magnitude 1 ☐ ☐ ☐ ☐ ☐ ☐ ☐  
Gradient 1.67 Order 1 BGC Zone CWH C1 C2 C3 C4 C5 S1 S2 S3 S4 S5  
☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐  
Setting VF Islands N  
Open water P Bars ☒ N ☐ SIDE ☐ DIAG ☐ MID ☐ SPAN ☐ BR  
Confinement OC Mass Movement M  
Coupling DC Riparian Veg. C  
Valley Flat L C/D C Exposed/Eroded NV  
Active Floodplain Visible ☐ Est. Width: Landuse NO  
Channel Pattern SI

MAPS

Map Type Map # Year  
TRIM 93L.031 1990

AIR PHOTOS

Line Number  
BCB8019 59-60

FEATURES

PHOTOS

COMMENTS

# FDIS Reach Card

1999/01/22

Reach # 1 ILP Map # 93L.031 ILP # 475

Watershed Code: 000-000000-00000-00000-0000-0000-000-000-000-000-000-000

## PROJECT

Project Name Skeena Cellulose Fish Inventory Project Code 06-ZYMO-000000325-1999  
Stream Name (gaz.) CLORE RIVER  
Project Watershed Code 440-256900-00000-00000-0000-0000-000-000-000-000-000

## WATERSHED

Reach Watershed Code 000-000000-00000-00000-0000-0000-000-000-000-000-000-000  
ILP Map # 93L.031 ILP # 475 Reach # 1.0 NID Map # 93L.031 NID # 4751 UTM(Zone/East/North/Method)  
Gazetted Name Local Name Sample Type B Wetland ☐

## SURVEY INFO

Date 1998/09/16 Agency C172 Crew SMJ/TMM

## ATTRIBUTES

Length (km) .50 US Elev 440 DISTURBANCE INDICATORS O1 B1 B2 B3 D1 D2 D3  
DS Elev. 370 Magnitude 4 ☐ ☐ ☐ ☐ ☐ ☐ ☐  
Gradient 14 Order 2 BGC Zone CWH C1 C2 C3 C4 C5 S1 S2 S3 S4 S5  
Setting VW ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐  
Islands N  
Open water A Bars ☒ N ☐ SIDE ☐ DIAG ☐ MID ☐ SPAN ☐ BR  
Confinement EN Mass Movement M  
Coupling CO Riparian Veg. M  
Valley Flat N C/D Exposed/Eroded NV  
Active Floodplain Visible ☐ Est. Width: Landuse FB  
Channel Pattern ST

## MAPS

Map Type Map # Year  
TRIM 93L.031 1990

## AIR PHOTOS

## FEATURES

## PHOTOS

## COMMENTS

# FDIS Site Card

1999/01/22

Reach # 1 ILP Map # 93L.031 ILP Number 475 Site 9110  
 Watershed Code: 000-000000-00000-00000-0000-0000-0000-000-000-000-000-000

## PROJECT

Project Name Skeena Cellulose Fish Inventory Project Code 06-ZYMO-000000325-1999  
 Stream Name (gaz.) CLORE RIVER  
 Project Watershed Code 440-256900-00000-00000-0000-0000-0000-000-000-000-000

## WATERSHED

Gazetted Name Local Name  
 Watershed Code 000-000000-00000-00000-0000-0000-0000-000-000-000-000  
 ILP Map# 93L.031 ILP # 475 Reach # 1  
 Site # NID Map # NID # UTM(Zone/East/North/Method) Site Lg Method Access Fish Crd?  
 9110 93L.031 9110 100 HC H ☒  
 Date 1998/10/16 Time 13:30 Agency C172 Crew SMJ/TMM Incomplete ☐

## CHANNEL

|                   | method | width | width | width | width | width | width | width | width | width | width |
|-------------------|--------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| Channel Width (m) | T      | 1.1   | 0.9   | 0.9   | 1.0   | 0.7   | 0.9   | 1.2   |       |       |       |
| Wetted Width (m)  | T      | 1.0   | 1.0   | 0.9   | 0.9   | 1.0   | 0.7   | 0.9   |       |       |       |
| Pool Depth (m)    | MS     | 0.15  | 0.20  | 0.20  | 0.35  | 0.28  | 0.23  | 0.40  |       |       |       |

|           | grad | grad | method |
|-----------|------|------|--------|
| Method I  | 3.0  | 2.0  | C      |
| Method II | 4.0  |      | C      |

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

| COVER | SWD | LWD | B | C | Total DP | OV | M IV |
|-------|-----|-----|---|---|----------|----|------|
|       | S   | S   | T | S | D        | S  | T    |

CROWN CLOSURE  
 1 1-20%

LWD F  
 DIST C  
 LB SHP S  
 Texture ☒ F ☐ G ☐ C ☐ B ☐ R ☐ A  
 RB SHP S  
 Texture ☒ F ☐ G ☐ C ☐ B ☐ R ☐ A

INTREAM VEG ☐ N ☒ A ☒ M ☒ V  
 RIP M  
 STG SHR  
 RIP M  
 STG PS

## WATER

### FLOOD SIGNS

NONE Method GE  
 Temp 5 Metho T3  
 pH 8.0 Method P1

### Req #

EMS  
 Cond. 50 Method: S4  
 Turb. ☐ T ☐ M ☐ L ☒ C Method: GE

## MORPHOLOGY

BED MATERIAL Dominant: G Subdom: C  
 D95: 25 D (cm): 8 Morph: RP

| DISTURBANCE INDICATORS | O1                       | B1                                  | B2                       | B3                       | D1                       | D2                       | D3                       |
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# FDIS Site Card

1999/01/22

Watershed Code:

Reach # 1 — ILP Map # 93L.031 ILP Number 475 Site 9110  
000-000000-00000-00000-0000-0000-000-000-000-000-000

## FEATURE

TRIB ☐ SC ☐ FC ☐ SWP/SLG ☐ FL/BV ☐

## HABITAT QUALITY

| Name               | Comments                                                            |
|--------------------|---------------------------------------------------------------------|
| OverWinter Habitat | possible in large ponds                                             |
| Rearing Habitat    | good quality with cover present and pools in which fish could rear. |
| Spawning Habitat   | very few isolated patches                                           |

## PHOTO DOCUMENTATION

| Photo | Foc | Lg | Dir | Comments |                  |
|-------|-----|----|-----|----------|------------------|
| R 23  | F   | 7  | STD | U        | Steve in channel |
| R 23  | F   | 8  | STD | D        | channel          |

## WILDLIFE

| Group | Observations                          |
|-------|---------------------------------------|
| AMP   | tailed frog caught by electroshocking |

## COMMENT

| Section | Comments                                                                                                                                                                                                  |
|---------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| CHANNEL | the problem with the creek is that the water ponds up at 100m from the Clore mainstem and seeps subsurface.                                                                                               |
| CHANNEL | The creek flows through logged cutblock (10-15 years old) and it appears that this logging activity diverted the channel into the pond section such that a flowing channel to the Clore no longer exists. |

# FDIS Fish Form

1999/01/22

Reach # 1 ILP Map # 93L.031 ILP # 475

Watershed Code: 000-000000-00000-00000-0000-000-000-000-000-000-000

## WATERBODY

Gazetted Name:

Local:

WS Code: 000-000000-00000-00000-0000-000-000-000-000-000-000

Lake/Stream: S

Waterbody ID: ILP Map #: 93L.031 ILP #: 475

Project ID: 06-ZYMO-000000325-1999 Reach #: 1

Fish Permit #: 34770-20 Date: 1998/10/16 To: 1998/10/16 Agency C172 Crew: SMJ/TMM Resample: ☐

## SITE / METHOD

| Site# | NID Map | NID # | UTM:Zone/East/North/Mthd | MTD/NO | Temp | Cond | Turbid | Comment |
|-------|---------|-------|--------------------------|--------|------|------|--------|---------|
| 9110  | 93L.031 | 9110  |                          | EF 1   | 5.0  | 50   | C      |         |

## A. GEAR SETTINGS

| Site# | MTD/NO | H/P | Date In    | Time In | Date Out   | Time Out | Comment |
|-------|--------|-----|------------|---------|------------|----------|---------|
| 9110  | EF 1   | 1   | 1998/10/16 | 13:30   | 1998/10/16 | 13:40    |         |

## B. NET/TRAP SPECIFICATIONS

## C. ELECTROFISHER SPECIFICATIONS

| Site# | MTD/NO | H/P | Encl | Sec | Length | Width | Volt | Freq | Pulse | Make      | Model |
|-------|--------|-----|------|-----|--------|-------|------|------|-------|-----------|-------|
| 9110  | EF 1   | 1   | O    | 120 | 130.0  | 1.0   | 400  | 70   | 5     | SMITHROOT | 12B   |

## FISH SUMMARY

| Site# | MTD/NO | H/P | Species | Stage | Age | Total # | Lgth (Min/Max) | FishAct | Comment             |
|-------|--------|-----|---------|-------|-----|---------|----------------|---------|---------------------|
| 9110  | EF     | 1 1 | NFC     |       |     | 0       |                |         | tailed frog shocked |

## INDIVIDUAL FISH DATA

## COMMENTS

| Section   | Comments                                                                                               |
|-----------|--------------------------------------------------------------------------------------------------------|
| WATERBODY | there is no flowing channel connecting this creek to the Clore. (d/s of the site it is ground seepage) |

# FDIS Reach Card

Reach #    ILP Map #    ILP #

1

1999/01/22

Watershed Code:    440-256900-30800-00000-00000-000-000-000-000-000-000

## PROJECT

Project Name    Skeena Cellulose Fish Inventory    Project Code    06-ZYMO-000000325-1999

Stream Name (gaz.)    CLORE RIVER

Project Watershed Code    440-256900-00000-00000-00000-000-000-000-000-000-000-000

## WATERSHED

Reach Watershed Code    440-256900-30800-00000-00000-00000-000-000-000-000-000-000

ILP Map #    ILP #    Reach #    NID Map #    NID #    UTM(Zone/East/North/Method)

1.0    93L.021    5531

Gazetted Name    Local Name    Sample Type    B    Wetland ☐

## SURVEY INFO

Date    1998/09/16    Agency    C172    Crew    SMJ/TMM

## ATTRIBUTES

Length (km)    .50    US Elev    440    DISTURBANCE    O1    B1    B2    B3    D1    D2    D3

DS Elev.    410    Magnitude    79    INDICATORS    ☐    ☐    ☐    ☐    ☐    ☐    ☐

Gradient    6    Order    4    BGC Zone    CWH    C1    C2    C3    C4    C5    S1    S2    S3    S4    S5

Setting    VF    Islands    N    ☐    ☐    ☐    ☐    ☐    ☐    ☐    ☐    ☐    ☐    ☐

Open water    A    Bars    ☒ N    ☐ SIDE    ☐ DIAG    ☐ MID    ☐ SPAN    ☐ BR

Confinement    CO    Mass Movement    H

Coupling    CO    Riparian Veg.    C

Valley Flat    N    C/D    Exposed/Eroded    NV

Active Floodplain    Visible ☐ Est. Width:    Landuse    NO

Channel Pattern    ST

## MAPS

Map Type    Map #    Year

TRIM    93L.031    1990

TRIM    93L.021    1990

## AIR PHOTOS

## FEATURES

NID Map    93L.021    NID:    5019

Type:    F    Height:    30.0    Method:

Length:    Method:

Photo:    R    F    Comments:

UTM (Zone/East/North)

# FDIS Site Card

1999/01/22

Watershed Code:

Reach # 1--  
ILP Map #  
ILP Number  
Site 9111  
440-256900-30800-00000-0000-0000-000-000-000-000-000

## PROJECT

Project Name Skeena Cellulose Fish Inventory Project Code 06-ZYMO-000000325-1999  
Stream Name (gaz.) CLORE RIVER  
Project Watershed Code 440-256900-00000-00000-0000-0000-000-000-000-000-000-000

## WATERSHED

Gazetted Name Local Name  
Watershed Code 440-256900-30800-00000-0000-0000-000-000-000-000-000-000  
ILP Map# ILP # Reach # 1  
Site # NID Map # NID # UTM(Zone/East/North/Method) Site Lg Method Access Fish Crd?  
9111 93L.021 9111 100 HC H ☒  
Date 1998/10/16 Time 14:30 Agency C172 Crew SMJ/TMM Incomplete ☐

## CHANNEL

|                   | method | width | width | width | width | width | width | width | width | width | width | width |
|-------------------|--------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| Channel Width (m) | T      | 7.1   | 8.3   | 9.4   | 7.6   | 9.0   | 8.3   |       |       |       |       |       |
| Wetted Width (m)  | T      | 3.0   | 9.0   | 2.1   | 1.7   | 1.2   | 2.0   |       |       |       |       |       |
| Pool Depth (m)    | MS     | 0.90  | 1.30  | 0.80  | 1.00  | 1.00  | 0.80  |       |       |       |       |       |

|           | grad | grad | method |            |                            |                                       |                            |        |    |  |  |  |
|-----------|------|------|--------|------------|----------------------------|---------------------------------------|----------------------------|--------|----|--|--|--|
| Method I  | 30.0 | 20.0 | C      | Wb Depth   | 3.0                        | 2.5                                   | 3.5                        | Method | MS |  |  |  |
| Method II |      |      | C      | Stage      | <input type="checkbox"/> L | <input checked="" type="checkbox"/> M | <input type="checkbox"/> H |        |    |  |  |  |
|           |      |      |        | No Vis.Ch. | <input type="checkbox"/>   | Intermittent                          | <input type="checkbox"/>   |        |    |  |  |  |
|           |      |      |        | Dw         | <input type="checkbox"/>   | Tribs.                                | <input type="checkbox"/>   |        |    |  |  |  |

| COVER   | SWD                        | LWD                        | B                          | C                          | Total                                 | DP                         | OV | A  |  |  |  |  |
|---------|----------------------------|----------------------------|----------------------------|----------------------------|---------------------------------------|----------------------------|----|----|--|--|--|--|
|         | N                          | T                          | S                          | T                          | D                                     | N                          | N  | IV |  |  |  |  |
| LWD     | F                          |                            |                            |                            |                                       |                            |    |    |  |  |  |  |
| DIST    | C                          |                            |                            |                            |                                       |                            |    |    |  |  |  |  |
| LB SHP  | V                          |                            |                            |                            |                                       |                            |    |    |  |  |  |  |
| Texture | <input type="checkbox"/> F | <input type="checkbox"/> G | <input type="checkbox"/> C | <input type="checkbox"/> B | <input checked="" type="checkbox"/> R | <input type="checkbox"/> A |    |    |  |  |  |  |
| RB SHP  | V                          |                            |                            |                            |                                       |                            |    |    |  |  |  |  |
| Texture | <input type="checkbox"/> F | <input type="checkbox"/> G | <input type="checkbox"/> C | <input type="checkbox"/> B | <input checked="" type="checkbox"/> R | <input type="checkbox"/> A |    |    |  |  |  |  |

| CROWN CLOSURE | 1                          | 1-20%                                 |                                       |                            |  |  |  |  |  |  |  |  |
|---------------|----------------------------|---------------------------------------|---------------------------------------|----------------------------|--|--|--|--|--|--|--|--|
| INTREAM VEG   | <input type="checkbox"/> N | <input checked="" type="checkbox"/> A | <input checked="" type="checkbox"/> M | <input type="checkbox"/> V |  |  |  |  |  |  |  |  |
| RIP           | M                          |                                       |                                       |                            |  |  |  |  |  |  |  |  |
| STG           | MF                         |                                       |                                       |                            |  |  |  |  |  |  |  |  |
| RIP           | C                          |                                       |                                       |                            |  |  |  |  |  |  |  |  |
| STG           | MF                         |                                       |                                       |                            |  |  |  |  |  |  |  |  |

## WATER

FLOOD SIGNS Req #  
SCOURED BEDROCK @ Method GE EMS  
Temp 5 Metho T3 Cond. 40 Method: S4  
pH 8.2 Method P1 Turb. ☐ T ☐ M ☐ L ☒ C Method: GE

## MORPHOLOGY

BED MATERIAL Dominant: R Subdom: B DISTURBANCE INDICATORS O1 B1 B2 B3 D1 D2 D3  
D95: 200 D (cm): 60 Morph: SP C1 C2 C3 C4 C5 S1 S2 S3 S4 S5  
Pattern SI  
Islands N  
Bars ☐ N ☒ SIDE ☐ DIAG ☐ MID ☐ SPAN ☐ BR  
Coupling CO  
Confinement EN



# FDIS Site Card

1999/01/22

Watershed Code:

Reach # 1- ILP Map # ILP Number Site 9111  
440-256900-30800-00000-0000-0000-000-000-000-000-000

| FEATURE |                       |      |      |        |    |        |          |
|---------|-----------------------|------|------|--------|----|--------|----------|
| NID Map | NID                   | Type | Hgt  | Method | Lg | Method | Comments |
| 93L.031 | 5018                  | F    | 10.0 | O      |    | HC     |          |
| Photo   | UTM (Zone/East/North) |      |      | Method |    |        |          |
| R       | F                     |      |      |        |    |        |          |

TRIB ☐ SC ☐ FC ☐ SWP/SLG ☐ FL/BV ☐

| HABITAT QUALITY    |                                                                                   |
|--------------------|-----------------------------------------------------------------------------------|
| Name               | Comments                                                                          |
| OverWinter Habitat | only in deep pools                                                                |
| Rearing Habitat    | good in plunge pools below falls but only about 60m of stream before high barrier |
| Spawning Habitat   | none observed                                                                     |

| PHOTO DOCUMENTATION |   |    |        |     |                                      |
|---------------------|---|----|--------|-----|--------------------------------------|
| Photo               |   |    | Foc Lg | Dir | Comments                             |
| R 23                | F | 9  | STD    | U   | falls and Steve                      |
| R 23                | F | 10 | STD    | X   | across the confluence with the Clore |

| WILDLIFE |
|----------|
|----------|

| COMMENT |
|---------|
|---------|

| Section | Comments                                                                 |
|---------|--------------------------------------------------------------------------|
| CHANNEL | the creek is entrenched in lower 300m and joins Clore in confined canyon |

FDIS Fish Form

1999/01/22

Reach # 1  
ILP Map #  
ILP #

Watershed Code: 440-256900-30800-00000-0000-0000-000-000-000-000-000

WATERBODY

Gazetted Name: Local:  
WS Code: 440-256900-30800-00000-0000-0000-000-000-000-000-000 Lake/Stream: S  
Waterbody ID: ILP Map #: ILP #:  
Project ID: 06-ZYMO-000000325-1999 Reach #: 1  
Fish Permit #: 34770-20 Date: 1998/10/16 To: 1998/10/16 Agency C172 Crew: SMJ/TMM Resample: ☐

SITE / METHOD

| Site# | NID Map | NID # | UTM:Zone/East/North/Mthd | MTD/NO | Temp | Cond | Turbid | Comment |
|-------|---------|-------|--------------------------|--------|------|------|--------|---------|
| 9111  | 93L.021 | 9111  |                          | EF 1   | 5.0  | 50   | C      |         |

A. GEAR SETTINGS

| Site# | MTD/NO | H/P | Date In    | Time In | Date Out   | Time Out | Comment                                       |
|-------|--------|-----|------------|---------|------------|----------|-----------------------------------------------|
| 9111  | EF 1   | 1   | 1998/10/16 | 14:30   | 1998/10/16 | 14:45    | could only shock 30m of habitat due to canyon |

B. NET/TRAP SPECIFICATIONS

C. ELECTROFISHER SPECIFICATIONS

| Site# | MTD/NO | H/P | Encl | Sec | Length | Width | Volt | Freq | Pulse | Make      | Model |
|-------|--------|-----|------|-----|--------|-------|------|------|-------|-----------|-------|
| 9111  | EF 1   | 1   | O    | 105 | 35.0   | 4.0   | 400  | 70   | 6     | SMITHROOT | 12B   |

FISH SUMMARY

| Site# | MTD/NO | H/P | Species | Stage | Age | Total # | Lgth (Min/Max) | FishAct | Comment |
|-------|--------|-----|---------|-------|-----|---------|----------------|---------|---------|
| 9111  | EF     | 1 1 | NFC     |       |     | 0       |                |         |         |

INDIVIDUAL FISH DATA

COMMENTS

# FDIS Reach Card

1999/01/22

Reach # 1 ILP Map # 93L.021 ILP # 636

Watershed Code: 000-000000-00000-00000-0000-0000-000-000-000-000-000-000

## PROJECT

Project Name Skeena Cellulose Fish Inventory Project Code 06-ZYMO-000000325-1999  
Stream Name (gaz.) CLORE RIVER  
Project Watershed Code 440-256900-00000-00000-0000-0000-000-000-000-000-000-000

## WATERSHED

Reach Watershed Code 000-000000-00000-00000-0000-0000-000-000-000-000-000-000  
ILP Map # 93L.021 ILP # 636 Reach # 1.0 NID Map # 93L.021 NID # 6361 UTM(Zone/East/North/Method)  
Gazetted Name Local Name Sample Type B Wetland ☐

## SURVEY INFO

Date 1998/09/16 Agency C172 Crew SMJ/TMM

## ATTRIBUTES

Length (km) .40 US Elev 520 DISTURBANCE INDICATORS O1 B1 B2 B3 D1 D2 D3  
DS Elev. 430 Magnitude 1  
Gradient 22.5 Order 1 BGC Zone CWH C1 C2 C3 C4 C5 S1 S2 S3 S4 S5  
Setting VW Islands N  
Open water A Bars ☒ N ☐ SIDE ☐ DIAG ☐ MID ☐ SPAN ☐ BR  
Confinement EN Mass Movement H  
Coupling CO Riparian Veg. C  
Valley Flat N C/D Exposed/Eroded NV  
Active Floodplain Visible ☐ Est. Width: Landuse NO  
Channel Pattern ST

## MAPS

Map Type Map # Year  
TRIM 93L.021 1990

## AIR PHOTOS

Line Number  
BCB8017 59-263

## FEATURES

## PHOTOS

## COMMENTS

Section Comments

SAMPLING INFORMATION this reach was identified NVC by the ground survey crew

# FDIS Site Card

1999/01/22

Watershed Code:

Reach # 1- ILP Map # 93L.021 ILP Number 636 Site 9112  
000-000000-00000-00000-0000-0000-000-000-000-000-000-000

## PROJECT

Project Name Skeena Cellulose Fish Inventory Project Code 06-ZYMO-000000325-1999  
Stream Name (gaz.) CLORE RIVER  
Project Watershed Code 440-256900-00000-00000-0000-0000-000-000-000-000-000-000

## WATERSHED

Gazetted Name Local Name  
Watershed Code 000-000000-00000-00000-0000-0000-000-000-000-000-000-000  
ILP Map# 93L.021 ILP # 636 Reach # 1  
Site # NID Map # NID # UTM(Zone/East/North/Method) Site Lg Method Access Fish Crd?  
9112 93L.021 9112 100 GE H ☐  
Date 1998/10/16 Time 15:30 Agency C172 Crew SMJ/TMM/BLW Incomplete ☐

## CHANNEL

method width width width width width width width width width width

Channel Width (m)

Wetted Width (m)

Pool Depth (m)

grad grad method

Method I

Wb Depth

Method MS

Method II

Stage ☐ L ☐ M ☐ H

No Vis.Ch. ☒ Intermittent ☐

Dw ☐ Tribs. ☐

COVER

Total

CROWN CLOSURE

SWD LWD B C DP OV IV

LWD

INTREAM VEG ☐ N ☐ A ☐ M ☐ V

DIST

RIP

LB SHP

STG

Texture ☐ F ☐ G ☐ C ☐ B ☐ R ☐ A

RIP

RB SHP

STG

Texture ☐ F ☐ G ☐ C ☐ B ☐ R ☐ A

## WATER

FLOOD SIGNS

Req #

Method

EMS

Temp

Metho

Cond.

Method:

pH

Method

Turb. ☐ T ☐ M ☐ L ☐ C

Method: GE

## MORPHOLOGY

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

# FDIS Site Card

1999/01/22

Watershed Code:

|                                                      |           |            |      |
|------------------------------------------------------|-----------|------------|------|
| Reach #                                              | ILP Map # | ILP Number | Site |
| 1—                                                   | 93L.021   | 636        | 9112 |
| 000-000000-00000-00000-0000-0000-000-000-000-000-000 |           |            |      |

## FEATURE

TRIB ☐
 SC ☐
 FC ☐
 SWP/SLG ☐
 FL/BV ☐

## HABITAT QUALITY

## PHOTO DOCUMENTATION

| Photo                      | Foc | Lg | Dir | Comments |
|----------------------------|-----|----|-----|----------|
| R 23                       | F   | 12 | STD | X        |
| typical vegetation in area |     |    |     |          |

## WILDLIFE

## COMMENT

| Section | Comments                                                                                                          |
|---------|-------------------------------------------------------------------------------------------------------------------|
| CHANNEL | old alluvial/colluvial fan with mature timber growing on it. Some old depressions but no fluvial channel present. |

FDIS Reach Card

1999/01/22

Watershed Code:000-000000-00000-00000-0000-0000-000-000-000-000-000

Reach #1ILP Map #103I.050ILP #90

PROJECT

Project NameSkeena Cellulose Fish InventoryProject Code06-ZYMO-000000325-1999

Stream Name (gaz.)CLORE RIVER

Project Watershed Code440-256900-00000-00000-0000-0000-000-000-000-000-000

WATERSHED

Reach Watershed Code000-000000-00000-00000-0000-0000-000-000-000-000-000

ILP Map #103I.050ILP #90Reach #1.0NID Map #103I.050NID #901UTM(Zone/East/North/Method)

Gazetted NameLocal NameSample TypeBWetland ☐

trib to Trapline Creek

SURVEY INFO

Date1998/09/16AgencyC172CrewSMJJ/TMM

ATTRIBUTES

Length (km).30US Elev600DISTURBANCE INDICATORSO1B1B2B3D1D2D3

DS Elev.550Magnitude1C1C2C3C4C5S1S2S3S4S5

Gradient16.67Order1BGC ZoneCWH

SettingVWIslandsN

Open waterABars ☒ N ☐ SIDE ☐ DIAG ☐ MID ☐ SPAN ☐ BR

ConfinementFCMass MovementH

CouplingCORiparian Veg.C

Valley FlatNC/DExposed/ErodedNV

Active FloodplainVisible ☐ Est. Width:LanduseFR

Channel PatternST

MAPS

Map TypeMap #Year

TRIM103I.0501991

AIR PHOTOS

LineNumber

BCB801995-100

FEATURES

PHOTOS

COMMENTS

SectionComments

SAMPLING INFORMATIONthis reach was identified as NVC by the ground survey crew

# FDIS Site Card

1999/01/22

Reach # 1 - ILP Map # 1031.050 ILP Number 90 Site 9113  
 Watershed Code: 000-000000-00000-00000-0000-000-000-000-000-000-000

## PROJECT

Project Name Skeena Cellulose Fish Inventory Project Code 06-ZYMO-000000325-1999  
 Stream Name (gaz.) CLORE RIVER  
 Project Watershed Code 440-256900-00000-00000-0000-000-000-000-000-000-000

## WATERSHED

Gazetted Name Local Name trib to Trapline Creek  
 Watershed Code 000-000000-00000-00000-0000-000-000-000-000-000-000  
 ILP Map# 1031.050 ILP # 90 Reach # 1  
 Site # NID Map # NID # UTM(Zone/East/North/Method) Site Lg Method Access Fish Crd?  
 9113 1031.050 9113 100 GE H ☐  
 Date 1998/10/15 Time 14:00 Agency C172 Crew SMJ/TMM Incomplete ☐

## CHANNEL

method width width width width width width width width width width

Channel Width (m)

Wetted Width (m)

Pool Depth (m)

grad grad method

Method I

Wb Depth

Method MS

Method II

Stage ☐ L ☐ M ☐ H

No Vis.Ch. ☒ Intermittent ☐

Dw ☐ Tribs. ☐

COVER

Total

CROWN CLOSURE

SWD LWD B C DP OV IV

LWD

INTREAM VEG ☐ N ☐ A ☐ M ☐ V

DIST

RIP

LB SHP

STG

Texture ☐ F ☐ G ☐ C ☐ B ☐ R ☐ A

RIP

RB SHP

STG

Texture ☐ F ☐ G ☐ C ☐ B ☐ R ☐ A

## WATER

FLOOD SIGNS

Req #

Method

EMS

Temp

Metho

Cond.

Method:

pH

Method

Turb. ☐ T ☐ M ☐ L ☐ C

Method: GE

## MORPHOLOGY

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



FDIS Site Card

1999/01/22

Watershed Code:

|                                                      |           |            |      |
|------------------------------------------------------|-----------|------------|------|
| Reach #                                              | ILP Map # | ILP Number | Site |
| 1—                                                   | 103I.050  | 90         | 9113 |
| 000-000000-00000-00000-0000-0000-000-000-000-000-000 |           |            |      |

|                               |                             |                             |                                                                 |
|-------------------------------|-----------------------------|-----------------------------|-----------------------------------------------------------------|
| FEATURE                       |                             |                             |                                                                 |
| TRIB <input type="checkbox"/> | SC <input type="checkbox"/> | FC <input type="checkbox"/> | SWP/SLG <input type="checkbox"/> FL/BV <input type="checkbox"/> |
| HABITAT QUALITY               |                             |                             |                                                                 |
| PHOTO DOCUMENTATION           |                             |                             |                                                                 |
| WILDLIFE                      |                             |                             |                                                                 |
| C O M M E N T                 |                             |                             |                                                                 |

| Section   | Comments                                                                                                                          |
|-----------|-----------------------------------------------------------------------------------------------------------------------------------|
| SITE CARD | walked d/s from LP93 past LP90 and LP88 along LB of Trapline Creek and no confluences or channels indicated on TRIM were located. |
| CHANNEL   | other sources (Brad North - personal communication) indicate LP 90 exists several hundred m away from Trapline                    |

# FDIS Reach Card

1999/01/22

Reach # 1 ILP Map # 103I.050 ILP # 88

Watershed Code: 000-000000-00000-00000-0000-0000-000-000-000-000-000-000

## PROJECT

Project Name Skeena Cellulose Fish Inventory Project Code 06-ZYMO-000000325-1999  
Stream Name (gaz.) CLORE RIVER  
Project Watershed Code 440-256900-00000-00000-0000-0000-000-000-000-000-000-000

## WATERSHED

Reach Watershed Code 000-000000-00000-00000-0000-0000-000-000-000-000-000-000  
ILP Map # 103I.050 ILP # 88 Reach # 1.0 NID Map # 103I.050 NID # 881 UTM(Zone/East/North/Method)  
Gazetted Name Local Name Sample Type B Wetland ☐  
trib to Trapline Creek

## SURVEY INFO

Date 1998/09/16 Agency C172 Crew SMJ/TMM

## ATTRIBUTES

Length (km) .40 US Elev 600 DISTURBANCE INDICATORS O1 B1 B2 B3 D1 D2 D3  
DS Elev. 540 Magnitude 1  
Gradient 15 Order 1 BGC Zone CWH C1 C2 C3 C4 C5 S1 S2 S3 S4 S5  
Setting VW Islands N  
Open water A Bars ☒ N ☐ SIDE ☐ DIAG ☐ MID ☐ SPAN ☐ BR  
Confinement FC Mass Movement H  
Coupling CO Riparian Veg. C  
Valley Flat N C/D Exposed/Eroded NV  
Active Floodplain Visible ☐ Est. Width: Landuse FR  
Channel Pattern ST

## MAPS

Map Type Map # Year  
TRIM 103I.050 1991

## AIR PHOTOS

Line Number  
BCB8019 95-100

## FEATURES

## PHOTOS

## COMMENTS

| Section              | Comments                                                  |
|----------------------|-----------------------------------------------------------|
| SAMPLING INFORMATION | this reach was identified NVC by the ground sampling crew |

# FDIS Site Card

1999/01/22

Reach # 1— ILP Map # 1031.050 ILP Number 88 Site 9114  
Watershed Code: 000-000000-00000-00000-0000-000-000-000-000-000-000

## PROJECT

Project Name Skeena Cellulose Fish Inventory Project Code 06-ZYMO-000000325-1999  
Stream Name (gaz.) CLORE RIVER  
Project Watershed Code 440-256900-00000-00000-0000-000-000-000-000-000-000

## WATERSHED

Gazetted Name Local Name trib to Trapline Creek  
Watershed Code 000-000000-00000-00000-0000-000-000-000-000-000-000  
ILP Map# 1031.050 ILP # 88 Reach # 1  
Site # NID Map # NID # UTM(Zone/East/North/Method) Site Lg Method Access Fish Crd?  
9114 1031.050 9114 100 GE H ☐  
Date 1998/10/15 Time 15:00 Agency C172 Crew SMJ/TMM Incomplete ☐

## CHANNEL

method width width width width width width width width width width

Channel Width (m)

Wetted Width (m)

Pool Depth (m)

grad grad method

Method I

Wb Depth

Method MS

Method II

Stage ☐ L ☐ M ☐ H

No Vis.Ch. ☒ Intermittent ☐

Dw ☐ Tribs. ☐

COVER

SWD LWD B C Total DP OV IV

CROWN CLOSURE

LWD

INTREAM VEG ☐ N ☐ A ☐ M ☐ V

DIST

RIP

LB SHP

STG

Texture ☐ F ☐ G ☐ C ☐ B ☐ R ☐ A

RIP

RB SHP

STG

Texture ☐ F ☐ G ☐ C ☐ B ☐ R ☐ A

## WATER

FLOOD SIGNS

Req #

Method

EMS

Temp

Metho

Cond.

Method:

pH

Method

Turb. ☐ T ☐ M ☐ L ☐ C

Method: GE

## MORPHOLOGY

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

# FDIS Site Card

1999/01/22

| Reach # | ILP Map # | ILP Number | Site |
|---------|-----------|------------|------|
| 1—      | 103I.050  | 88         | 9114 |

Watershed Code: 000-000000-00000-00000-0000-0000-000-000-000-000-000

## FEATURE

TRIB ☐ SC ☐ FC ☐ SWP/SLG ☐ FL/BV ☐

## HABITAT QUALITY

## PHOTO DOCUMENTATION

## WILDLIFE

## C O M M E N T

| Section   | Comments                                                                                                                     |
|-----------|------------------------------------------------------------------------------------------------------------------------------|
| SITE CARD | walked d/s along left bank of Trapline Creek past where LP88 is indicated on TRIM but no channel observed joining Trapline.  |
| CHANNEL   | other sources (Brad North - personal communication) indicate that a very small channel exists 300m away from Trapline Creek. |

# FDIS Reach Card

1999/01/22

Reach # 1 ILP Map # ILP #

Watershed Code: 440-256900-07000-00000-0000-0000-000-000-000-000-000

## PROJECT

Project Name Skeena Cellulose Fish Inventory Project Code 06-ZYMO-000000325-1999  
Stream Name (gaz.) CLORE RIVER  
Project Watershed Code 440-256900-00000-00000-0000-0000-000-000-000-000-000

## WATERSHED

Reach Watershed Code 440-256900-07000-00000-0000-0000-000-000-000-000-000  
ILP Map # ILP # Reach # NID Map # NID # UTM(Zone/East/North/Method)  
1.0 1031.050 70001

Gazetted Name Local Name Sample Type B Wetland ☐  
MORaine CREEK

## SURVEY INFO

Date 1998/09/16 Agency C172 Crew SMJ/TMM

## ATTRIBUTES

Length (km) 1.20 US Elev 400 DISTURBANCE INDICATORS O1 B1 B2 B3 D1 D2 D3  
DS Elev. 270 Magnitude 63  
Gradient 10.83 Order 4 BGC Zone CWH C1 C2 C3 C4 C5 S1 S2 S3 S4 S5  
Setting VF Islands N  
Open water A Bars ☒ N ☐ SIDE ☐ DIAG ☐ MID ☐ SPAN ☐ BR  
Confinement EN Mass Movement M  
Coupling CO Riparian Veg. C  
Valley Flat N C/D Exposed/Eroded NV  
Active Floodplain Visible ☐ Est. Width: Landuse NO  
Channel Pattern ST

## MAPS

Map Type Map # Year  
TRIM 1031.050 1991

## AIR PHOTOS

Line Number  
BCB8019 93

## FEATURES

NID Map 1031.050 NID: 5200  
Type: F Height: 10.0 Method:  
Length: Method:  
Photo: R F Comments: Bustard Report  
UTM (Zone/East/North)

## PHOTOS

FDIS Reach Card

Reach #    ILP Map #    ILP #  
1

1999/01/22

Watershed Code:    440-256900-07000-00000-0000-0000-000-000-000-000-000

COMMENTS





# FDIS Site Card

1999/01/22

Watershed Code:

Reach # 1— ILP Map # ILP Number Site 9115  
440-256900-07000-00000-0000-0000-000-000-000-000-000

## FEATURE

| NID Map  | NID  | Type | Hgt | Method | Lg  | Method | Comments                  |
|----------|------|------|-----|--------|-----|--------|---------------------------|
| 1031.050 | 5500 | C    |     |        | 200 | GE     | Chutes downstream of road |

| Photo | UTM (Zone/East/North) | Method |
|-------|-----------------------|--------|
| R F   |                       |        |

TRIB ☐ SC ☐ FC ☐ SWP/SLG ☐ FL/BV ☐

## HABITAT QUALITY

| Name               | Comments                         |
|--------------------|----------------------------------|
| OverWinter Habitat | possible in pools                |
| Rearing Habitat    | possible in bedrock plunge pools |
| Spawning Habitat   | none observed                    |

## PHOTO DOCUMENTATION

| Photo     | Foc | Lg | Dir                                 | Comments |
|-----------|-----|----|-------------------------------------|----------|
| R 23 F 13 | STD | U  | Steve in cascade section            |          |
| R 23 F 14 | STD | D  | underneath bridge and barrier falls |          |

## WILDLIFE

## COMMENT

| Section   | Comments                                                                        |
|-----------|---------------------------------------------------------------------------------|
| SITE CARD | site above series of falls but fish caught indicates that fish can ascend falls |

# FDIS Fish Form

1999/01/22

Reach # 1  
ILP Map #  
ILP #

Watershed Code: 440-256900-07000-00000-0000-0000-000-000-000-000-000

## WATERBODY

Gazetted Name: MORaine CREEK Local:  
WS Code: 440-256900-07000-00000-0000-0000-000-000-000-000-000 Lake/Stream: S  
Waterbody ID: ILP Map #: ILP #:  
Project ID: 06-ZYMO-000000325-1999 Reach #: 1

Fish Permit #: 34770-20 Date: 1998/10/19 To: 1998/10/19 Agency C172 Crew: SMJ/TMM Resample: ☐

## SITE / METHOD

| Site# | NID Map  | NID # | UTM:Zone/East/North/Mthd | MTD/NO | Temp | Cond | Turbid | Comment |
|-------|----------|-------|--------------------------|--------|------|------|--------|---------|
| 9115  | 103I.050 | 9115  |                          | EF 1   | 4.5  | 30   | C      |         |

## A. GEAR SETTINGS

| Site# | MTD/NO | H/P | Date In    | Time In | Date Out   | Time Out | Comment |
|-------|--------|-----|------------|---------|------------|----------|---------|
| 9115  | EF 1   | 1   | 1998/10/19 | 11:15   | 1998/10/19 | 11:30    |         |

## B. NET/TRAP SPECIFICATIONS

## C. ELECTROFISHER SPECIFICATIONS

| Site# | MTD/NO | H/P | Encl | Sec | Length | Width | Volt | Freq | Pulse | Make      | Model |
|-------|--------|-----|------|-----|--------|-------|------|------|-------|-----------|-------|
| 9115  | EF 1   | 1   | O    | 332 | 90.0   | 4.0   | 400  | 70   | 6     | SMITHROOT | 12B   |

## FISH SUMMARY

| Site# | MTD/NO | H/P | Species | Stage | Age | Total # | Lgth (Min/Max) | FishAct | Comment |
|-------|--------|-----|---------|-------|-----|---------|----------------|---------|---------|
| 9115  | EF 1   | 1   | RB      | J     |     | 1       | 130 130        | R       |         |

## INDIVIDUAL FISH DATA

| Site# | MTD/NO | H/P | Species | Length | Weight | Sex | Mat | Age<br>Str/Smpl#/Age | Vch# | Genetic<br>Str/Smpl# | Roll # | Frame# | Comment |
|-------|--------|-----|---------|--------|--------|-----|-----|----------------------|------|----------------------|--------|--------|---------|
| 9115  | EF 1   | 1   | RB      | 130    |        | U   | IM  |                      |      |                      |        |        |         |

## COMMENTS

# FDIS Reach Card

1999/01/22

Watershed Code:

000-000000-00000-00000-0000-0000-000-000-000-000-000

Reach # ILP Map # ILP #

1 93L.031 254

## PROJECT

Project Name Skeena Cellulose Fish Inventory Project Code 06-ZYMO-000000325-1999  
Stream Name (gaz.) CLORE RIVER  
Project Watershed Code 440-256900-00000-00000-0000-0000-000-000-000-000-000

## WATERSHED

Reach Watershed Code 000-000000-00000-00000-0000-0000-000-000-000-000-000  
ILP Map # ILP # Reach # NID Map # NID # UTM(Zone/East/North/Method)  
93L.031 254 1.0 93L.031 2541

Gazetted Name Local Name Sample Type B Wetland ☐  
trib to Thomas Creek

## SURVEY INFO

Date 1998/09/16 Agency C172 Crew SMJ/TMM

## ATTRIBUTES

Length (km) .90 US Elev 580 DISTURBANCE O1 B1 B2 B3 D1 D2 D3  
INDICATORS ☐ ☐ ☐ ☐ ☐ ☐ ☐  
DS Elev. 390 Magnitude 1 C1 C2 C3 C4 C5 S1 S2 S3 S4 S5  
Gradient 21.11 Order 1 BGC Zone CWH ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐  
Setting VW Islands N  
Open water A Bars ☒ N ☐ SIDE ☐ DIAG ☐ MID ☐ SPAN ☐ BR  
Confinement UN Mass Movement L  
Coupling DC Riparian Veg. M  
Valley Flat N C/D Exposed/Eroded NV  
Active Floodplain Visible ☐ Est. Width: Landuse FB  
Channel Pattern ST

## MAPS

Map Type Map # Year  
TRIM 93L.031 1990

## AIR PHOTOS

Line Number  
BCB8018 98-200

## FEATURES

## PHOTOS

## COMMENTS

1999/01/22

| Reach #                                                  | ILP Map # | ILP Number | Site |
|----------------------------------------------------------|-----------|------------|------|
| 1—                                                       | 93L031    | 254        | 9116 |
| 000-000000-00000-00000-0000-0000-000-000-000-000-000-000 |           |            |      |

|                        |                                                      |              |                        |
|------------------------|------------------------------------------------------|--------------|------------------------|
| Project Name           | Skeena Cellulose Fish Inventory                      | Project Code | 06-ZYMO-000000325-1999 |
| Stream Name (gaz.)     | CLORE RIVER                                          |              |                        |
| Project Watershed Code | 440-256900-00000-00000-0000-0000-000-000-000-000-000 |              |                        |

|                |            |                                                      |                             |            |      |      |         |                      |                          |                                     |  |
|----------------|------------|------------------------------------------------------|-----------------------------|------------|------|------|---------|----------------------|--------------------------|-------------------------------------|--|
| Gazetted Name  |            |                                                      |                             | Local Name |      |      |         | trib to Thomas Creek |                          |                                     |  |
| Watershed Code |            | 000-000000-00000-00000-0000-0000-000-000-000-000-000 |                             |            |      |      |         |                      |                          |                                     |  |
| ILP Map#       | 93L.031    |                                                      |                             | ILP #      | 254  |      |         | Reach #              | 1                        |                                     |  |
| Site #         | NID Map #  | NID #                                                | UTM(Zone/East/North/Method) |            |      |      | Site Lg | Method               | Access                   | Fish Crd?                           |  |
| 9116           | 93L.031    | 9116                                                 |                             |            |      |      | 100     | GE                   | H                        | <input checked="" type="checkbox"/> |  |
| Date           | 1998/10/19 | Time                                                 | 12:30                       | Agency     | C172 | Crew | SMJ/TMM | Incomplete           | <input type="checkbox"/> |                                     |  |

|                   |                            | method                     | width                                 | width                      | width                      | width                      | width                      | width                                 | width                      | width                                 | width                                 |  |
|-------------------|----------------------------|----------------------------|---------------------------------------|----------------------------|----------------------------|----------------------------|----------------------------|---------------------------------------|----------------------------|---------------------------------------|---------------------------------------|--|
| Channel Width (m) |                            | T                          | 2.5                                   | 2.1                        | 1.6                        | 1.1                        | 1.7                        | 1.9                                   |                            |                                       |                                       |  |
| Wetted Width (m)  |                            | T                          | 1.3                                   | 0.7                        | 0.9                        | 1.1                        | 0.9                        | 1.1                                   |                            |                                       |                                       |  |
| Pool Depth (m)    |                            | MS                         | 0.21                                  | 0.10                       | 0.15                       | 0.14                       | 0.10                       | 0.10                                  |                            |                                       |                                       |  |
| grad              |                            | grad                       | method                                |                            |                            |                            |                            |                                       |                            |                                       |                                       |  |
| Method I          | 50.0                       |                            | C                                     |                            |                            | Wb Depth                   | .3                         | .3                                    | .4                         | Method                                | MS                                    |  |
| Method II         | 10.0                       | 18.0                       | C                                     |                            |                            | Stage                      | <input type="checkbox"/> L | <input checked="" type="checkbox"/> M | <input type="checkbox"/> H |                                       |                                       |  |
|                   |                            |                            |                                       |                            |                            | No Vis.Ch.                 | <input type="checkbox"/>   | Intermittent                          |                            | <input checked="" type="checkbox"/>   |                                       |  |
|                   |                            |                            |                                       |                            |                            | Dw                         | <input type="checkbox"/>   | Tlibs.                                |                            | <input type="checkbox"/>              |                                       |  |
| COVER             |                            |                            |                                       | Total                      |                            | CROWN CLOSURE              |                            |                                       |                            |                                       |                                       |  |
| SWD               | LWD                        | B                          | C                                     | DP                         | OV                         | IV                         |                            |                                       |                            |                                       |                                       |  |
| D                 | S                          | T                          | T                                     | T                          | S                          | S                          |                            |                                       |                            |                                       |                                       |  |
| LWD               | A                          |                            |                                       |                            |                            |                            | INTREAM VEG                | <input type="checkbox"/> N            | <input type="checkbox"/> A | <input checked="" type="checkbox"/> M | <input checked="" type="checkbox"/> V |  |
| DIST              | C                          |                            |                                       |                            |                            |                            | RIP                        | M                                     |                            |                                       |                                       |  |
| LB SHP            | S                          |                            |                                       |                            |                            |                            | STG                        | SHR                                   |                            |                                       |                                       |  |
| Texture           | <input type="checkbox"/> F | <input type="checkbox"/> G | <input checked="" type="checkbox"/> C | <input type="checkbox"/> B | <input type="checkbox"/> R | <input type="checkbox"/> A | RIP                        | M                                     |                            |                                       |                                       |  |
| RB SHP            | S                          |                            |                                       |                            |                            |                            | STG                        | SHR                                   |                            |                                       |                                       |  |
| Texture           | <input type="checkbox"/> F | <input type="checkbox"/> G | <input checked="" type="checkbox"/> C | <input type="checkbox"/> B | <input type="checkbox"/> R | <input type="checkbox"/> A |                            |                                       |                            |                                       |                                       |  |

| FLOOD SIGNS   |     |        |    | Req # |                                                                                                                        |  |            |
|---------------|-----|--------|----|-------|------------------------------------------------------------------------------------------------------------------------|--|------------|
| RAFTED DEBRIS |     | Method | GE | EMS   |                                                                                                                        |  |            |
| Temp          | 6   | Metho  | T3 | Cond. | 50                                                                                                                     |  | Method: S4 |
| pH            | 8.2 | Method | P1 | Turb. | <input type="checkbox"/> T <input type="checkbox"/> M <input type="checkbox"/> L <input checked="" type="checkbox"/> C |  | Method: GE |

|              |                            |                                          |                               |                              |                               |                             |                          |                          |                          |                                     |                                     |                                     |                          |                          |                          |
|--------------|----------------------------|------------------------------------------|-------------------------------|------------------------------|-------------------------------|-----------------------------|--------------------------|--------------------------|--------------------------|-------------------------------------|-------------------------------------|-------------------------------------|--------------------------|--------------------------|--------------------------|
| BED MATERIAL |                            |                                          | Dominant: G                   | Subdom: F                    | DISTURBANCE INDICATORS        |                             |                          |                          |                          |                                     |                                     |                                     |                          |                          |                          |
| D95:         | 100                        | D (cm):                                  | 2                             | Morph:                       | RP                            | 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 checked="" type="checkbox"/> |                          |                          |                          |
| Pattern      | SI                         |                                          |                               |                              |                               | 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"/> |
| Islands      | N                          |                                          |                               |                              |                               |                             |                          |                          |                          |                                     |                                     |                                     |                          |                          |                          |
| Bars         | <input type="checkbox"/> N | <input checked="" type="checkbox"/> SIDE | <input type="checkbox"/> DIAG | <input type="checkbox"/> MID | <input type="checkbox"/> SPAN | <input type="checkbox"/> BR |                          |                          |                          |                                     |                                     |                                     |                          |                          |                          |
| Coupling     | DC                         |                                          |                               |                              |                               |                             |                          |                          |                          |                                     |                                     |                                     |                          |                          |                          |
| Confinement  | UN                         |                                          |                               |                              |                               |                             |                          |                          |                          |                                     |                                     |                                     |                          |                          |                          |

# FDIS Site Card

1999/01/22

Watershed Code:

|                                                      |           |            |      |
|------------------------------------------------------|-----------|------------|------|
| Reach #                                              | ILP Map # | ILP Number | Site |
| 1—                                                   | 93L.031   | 254        | 9116 |
| 000-000000-00000-00000-0000-0000-000-000-000-000-000 |           |            |      |

## FEATURE

TRIB ☐ SC ☐ FC ☐ SWP/SLG ☐ FL/BV ☐

## HABITAT QUALITY

| Name             | Comments                                                                                      |
|------------------|-----------------------------------------------------------------------------------------------|
| Rearing Habitat  | fair quality with shallow pools and steep cascade ~350m u/s from confluence with Thomas Creek |
| Spawning Habitat | poor quality gravel in low gradient section                                                   |

## PHOTO DOCUMENTATION

| Photo | Foc | Lg | Dir | Comments |                      |
|-------|-----|----|-----|----------|----------------------|
| R 23  | F   | 15 | STD | D        | Steve in the channel |
| R 23  | F   | 16 | STD | U        | channel              |

## WILDLIFE

## C O M M E N T

| Section | Comments                                                                                 |
|---------|------------------------------------------------------------------------------------------|
| CHANNEL | a short section (100m long) in channel on break of slope with 50% gradient and cascades. |
| CHANNEL | the creek seeps subsurface under debris piles in several places for 5-10m                |
| CHANNEL | no fish caught in adjacent Thomas Creek                                                  |

# FDIS Fish Form

1999/01/22

Reach # 1 ILP Map # 93L.031 ILP # 254

Watershed Code: 000-000000-00000-00000-0000-0000-000-000-000-000-000

## WATERBODY

Gazetted Name: Local: trib to Thomas Creek  
 WS Code: 000-000000-00000-00000-0000-0000-000-000-000-000-000 Lake/Stream: S  
 Waterbody ID: ILP Map #: 93L.031 ILP #: 254  
 Project ID: 06-ZYMO-000000325-1999 Reach #: 1

Fish Permit #: 34770-20 Date: 1998/10/19 To: 1998/10/19 Agency C172 Crew: SMJ/TMM Resample: ☐

## SITE / METHOD

| Site# | NID Map | NID # | UTM:Zone/East/North/Mthd | MTD/NO | Temp | Cond | Turbid | Comment |
|-------|---------|-------|--------------------------|--------|------|------|--------|---------|
| 9116  | 93L.031 | 9116  |                          | EF 1   | 6.0  | 50   | C      |         |

## A. GEAR SETTINGS

| Site# | MTD/NO | H/P | Date In    | Time In | Date Out   | Time Out | Comment |
|-------|--------|-----|------------|---------|------------|----------|---------|
| 9116  | EF 1   | 1   | 1998/10/19 | 12:40   | 1998/10/19 | 13:00    |         |

## B. NET/TRAP SPECIFICATIONS

## C. ELECTROFISHER SPECIFICATIONS

| Site# | MTD/NO | H/P | Encl | Sec | Length | Width | Volt | Freq | Pulse | Make      | Model |
|-------|--------|-----|------|-----|--------|-------|------|------|-------|-----------|-------|
| 9116  | EF 1   | 1   | O    | 75  | 75.0   | 1.5   | 400  | 70   | 6     | SMITHROOT | 12B   |

## FISH SUMMARY

| Site# | MTD/NO | H/P | Species | Stage | Age | Total # | Lgth (Min/Max) | FishAct | Comment |
|-------|--------|-----|---------|-------|-----|---------|----------------|---------|---------|
| 9116  | EF 1   | 1   | NFC     |       |     | 0       |                |         |         |

## INDIVIDUAL FISH DATA

## COMMENTS

| Section   | Comments                                                                          |
|-----------|-----------------------------------------------------------------------------------|
| WATERBODY | very little shockable water present with subsurface flow through debris jams etc. |

FDIS Reach Card

1999/01/22

Watershed Code: 000-000000-00000-00000-0000-0000-000-000-000-000-000-000

Reach # 1ILP Map # 93L.031ILP # 256

PROJECT

Project NameSkeena Cellulose Fish InventoryProject Code06-ZYMO-000000325-1999

Stream Name (gaz.)CLORE RIVER

Project Watershed Code440-256900-00000-00000-0000-0000-000-000-000-000-000-000

WATERSHED

Reach Watershed Code000-000000-00000-00000-0000-0000-000-000-000-000-000-000

ILP Map # 93L.031ILP # 256Reach # 1.0NID Map # 93L.031NID # 2561UTM(Zone/East/North/Method)

Gazetted NameLocal NameSample Type BWetland ☐

trib to Thomas Creek

SURVEY INFO

Date1998/09/16AgencyC172CrewSMJ/TMM

ATTRIBUTES

Length (km).90US Elev590DISTURBANCE INDICATORS O1 B1 B2 B3 D1 D2 D3

DS Elev.390Magnitude1C1 C2 C3 C4 C5 S1 S2 S3 S4 S5

Gradient22.22Order1BGC ZoneCWH

SettingVWIslandsN

Open waterASide ☒ N ☐ SIDE ☐ DIAG ☐ MID ☐ SPAN ☐ BR

ConfinementENMass MovementM

CouplingPCRiparian Veg.M

Valley FlatNC/DExposed/ErodedNV

Active FloodplainVisible ☐ Est. Width:LanduseFB

Channel PatternST

MAPS

Map TypeMap #Year

TRIM93L.0311990

AIR PHOTOS

LineNumber

BCB801897-200

FEATURES

PHOTOS

COMMENTS



# FDIS Site Card

1999/01/22

Watershed Code:

Reach # 1 — ILP Map # 93L.031 ILP Number 256 Site 9117  
000-000000-00000-00000-0000-0000-000-000-000-000-000-000

## PROJECT

Project Name Skeena Cellulose Fish Inventory Project Code 06-ZYMO-000000325-1999  
Stream Name (gaz.) CLORE RIVER  
Project Watershed Code 440-256900-00000-00000-0000-0000-000-000-000-000-000-000

## WATERSHED

Gazetted Name Local Name trib to Thomas Creek  
Watershed Code 000-000000-00000-00000-0000-0000-000-000-000-000-000-000  
ILP Map# 93L.031 ILP # 256 Reach # 1  
Site # NID Map # NID # UTM(Zone/East/North/Method) Site Lg Method Access Fish Crd?  
9117 93L.031 9117 150 GE H ☒  
Date 1998/10/19 Time 13:15 Agency C172 Crew SMJ/TMM Incomplete ☐

## CHANNEL

|                   | method | width | width | width | width | width | width | width | width | width | width |
|-------------------|--------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| Channel Width (m) | T      | 1.2   | 1.1   | 1.6   | 1.3   | 0.9   | 0.8   |       |       |       |       |
| Wetted Width (m)  | T      | 0.8   | 0.5   | 0.4   | 0.4   | 0.6   | 0.5   |       |       |       |       |
| Pool Depth (m)    | MS     | 0.29  | 0.16  | 0.10  | 0.11  | 0.09  | 0.15  | 0.23  |       |       |       |

|           | grad | grad | method |
|-----------|------|------|--------|
| Method I  | 10.0 | 20.0 | C      |
| Method II | 13.0 | 15.0 | C      |

Wb Depth .3 .4 .4 Method MS  
Stage ☐ L ☒ M ☐ H  
No Vis.Ch. ☐ Intermittent ☐  
Dw ☐ Tribs. ☐

COVER  
SWD LWD B C Total DP OV A IV  
D S N S T S T  
LWD A  
DIST C  
LB SHP S  
Texture ☒ F ☐ G ☐ C ☐ B ☐ R ☐ A  
RB SHP S  
Texture ☒ F ☒ G ☐ C ☐ B ☐ R ☐ A

## CROWN CLOSURE

1 1-20%

INTREAM VEG ☐ N ☒ A ☒ M ☒ V  
RIP M  
STG SHR  
RIP M  
STG SHR

## WATER

### FLOOD SIGNS

RAFTED DEBRIS Method GE  
Temp 5 Metho T3  
pH 8.0 Method P1

### Req #

EMS  
Cond. 70 Method: S4  
Turb. ☐ T ☐ M ☐ L ☒ C Method: GE

## MORPHOLOGY

BED MATERIAL Dominant: G Subdom: F DISTURBANCE INDICATORS O1 B1 B2 B3 D1 D2 D3  
D95: 5 D (cm): 2 Morph: CP ☐ ☐ ☐ ☐ ☒ ☒ ☒  
Pattern SI C1 C2 C3 C4 C5 S1 S2 S3 S4 S5  
Islands N ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐  
Bars ☐ N ☒ SIDE ☐ DIAG ☐ MID ☐ SPAN ☐ BR  
Coupling DC  
Confinement OC

FDIS Site Card

1999/01/22

Reach #      ILP Map #      ILP Number      Site  
1—      93L.031      256      9117

Watershed Code:      000-000000-00000-00000-0000-000-000-000-000-000-000

FEATURE

TRIB ☐      SC ☐      FC ☐      SWP/SLG ☐      FL/BV ☐

HABITAT QUALITY

| Name             | Comments                                                                         |
|------------------|----------------------------------------------------------------------------------|
| Rearing Habitat  | poor quality with lots of LWD and flow but not much water depth or channel width |
| Spawning Habitat | some fair quality patches in low gradient section of stream near Thomas Creek    |

PHOTO DOCUMENTATION

| Photo |   |    | Foc | Lg | Dir | Comments |
|-------|---|----|-----|----|-----|----------|
| R 23  | F | 17 | STD |    | U   | channel  |
| R 23  | F | 18 | STD |    | D   | channel  |

WILDLIFE

C O M M E N T

| Section    | Comments                                                                                        |
|------------|-------------------------------------------------------------------------------------------------|
| CHANNEL    | the creek is completely logged over and tons of LWD and slash left in the creek                 |
| MORPHOLOGY | the channel flows overland in places and beneath abundant slash as a seepage into Thomas Creek. |

# FDIS Fish Form

1999/01/22

Reach # 1 ILP Map # 93L.031 ILP # 256  
 Watershed Code: 000-000000-00000-00000-0000-0000-000-000-000-000-000

## WATERBODY

Gazetted Name: Local: trib to Thomas Creek  
 WS Code: 000-000000-00000-00000-0000-0000-000-000-000-000-000 Lake/Stream: S  
 Waterbody ID: ILP Map #: 93L.031 ILP #: 256  
 Project ID: 06-ZYMO-000000325-1999 Reach #: 1

Fish Permit #: 34770-20 Date: 1998/10/19 To: 1998/10/19 Agency C172 Crew: SMJ/TMM Resample: ☐

## SITE / METHOD

| Site# | NID Map | NID # | UTM:Zone/East/North/Mthd | MTD/NO | Temp | Cond | Turbid | Comment |
|-------|---------|-------|--------------------------|--------|------|------|--------|---------|
| 9117  | 93L.031 | 9117  |                          | EF 1   | 5.0  | 70   | C      |         |

## A. GEAR SETTINGS

| Site# | MTD/NO | H/P | Date In    | Time In | Date Out   | Time Out | Comment |
|-------|--------|-----|------------|---------|------------|----------|---------|
| 9117  | EF 1   | 1   | 1998/10/19 | 13:15   | 1998/10/19 | 13:29    |         |

## B. NET/TRAP SPECIFICATIONS

## C. ELECTROFISHER SPECIFICATIONS

| Site# | MTD/NO | H/P | Encl | Sec | Length | Width | Volt | Freq | Pulse | Make      | Model |
|-------|--------|-----|------|-----|--------|-------|------|------|-------|-----------|-------|
| 9117  | EF 1   | 1   | O    | 197 | 90.0   | 1.0   | 400  | 70   | 6     | SMITHROOT | 12B   |

## FISH SUMMARY

| Site# | MTD/NO | H/P | Species | Stage | Age | Total # | Lgth (Min/Max) | FishAct | Comment |
|-------|--------|-----|---------|-------|-----|---------|----------------|---------|---------|
| 9117  | EF 1   | 1   | NFC     |       |     | 0       |                |         |         |

## INDIVIDUAL FISH DATA

## COMMENTS

# FDIS Reach Card

1999/01/22

Reach # 1 ILP Map # 93L.031 ILP # 228

Watershed Code: 000-000000-00000-00000-0000-0000-000-000-000-000-000-000

## PROJECT

Project Name Skeena Cellulose Fish Inventory Project Code 06-ZYMO-000000325-1999  
Stream Name (gaz.) CLORE RIVER  
Project Watershed Code 440-256900-00000-00000-0000-0000-000-000-000-000-000-000

## WATERSHED

Reach Watershed Code 000-000000-00000-00000-0000-0000-000-000-000-000-000-000  
ILP Map # 93L.031 ILP # 228 Reach # 1.0 NID Map # 103L.040 NID # 2281 UTM(Zone/East/North/Method)  
Gazetted Name Local Name Sample Type B Wetland ☐

## SURVEY INFO

Date 1998/09/16 Agency C172 Crew SMJ/TMM

## ATTRIBUTES

Length (km) .60 US Elev 400 DISTURBANCE INDICATORS O1 B1 B2 B3 D1 D2 D3  
DS Elev. 310 Magnitude 2 C1 C2 C3 C4 C5 S1 S2 S3 S4 S5  
Gradient 15 Order 2 BGC Zone CWH  
Setting VF Islands N  
Open water A Bars ☒ N ☐ SIDE ☐ DIAG ☐ MID ☐ SPAN ☐ BR  
Confinement CO Mass Movement M  
Coupling DC Riparian Veg. C  
Valley Flat N C/D N Exposed/Eroded NV  
Active Floodplain Visible ☐ Est. Width: Landuse FB  
Channel Pattern ST

## MAPS

Map Type Map # Year  
TRIM 93L.031 1990  
TRIM 103L.040 1990

## AIR PHOTOS

Line Number  
BCB8019 57-60

## FEATURES

## PHOTOS

## COMMENTS

# FDIS Site Card

1999/01/22

Watershed Code:

Reach # 1 ILP Map # 93L.031 ILP Number 228 Site 9118  
000-000000-00000-00000-0000-0000-000-000-000-000-000-000

## PROJECT

Project Name Skeena Cellulose Fish Inventory Project Code 06-ZYMO-000000325-1999  
Stream Name (gaz.) CLORE RIVER  
Project Watershed Code 440-256900-00000-00000-0000-0000-000-000-000-000-000-000

## WATERSHED

Gazetted Name Local Name  
Watershed Code 000-000000-00000-00000-0000-0000-000-000-000-000-000-000  
ILP Map# 93L.031 ILP # 228 Reach # 1  
Site # NID Map # NID # UTM(Zone/East/North/Method) Site Lg Method Access Fish Crd?  
9118 93L.031 9118 150 GE H ☒  
Date 1998/10/19 Time 15:15 Agency C172 Crew SMJ/TMM Incomplete ☐

## CHANNEL

|                   | method | width | width | width | width | width | width | width | width | width | width |
|-------------------|--------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| Channel Width (m) | T      | 3.1   | 2.4   | 2.5   | 2.8   | 3.1   | 2.9   |       |       |       |       |
| Wetted Width (m)  | T      | 2.8   | 2.0   | 2.1   | 1.7   | 1.9   | 1.7   |       |       |       |       |
| Pool Depth (m)    | MS     | 0.10  | 0.15  | 0.35  | 0.20  | 0.22  | 0.40  |       |       |       |       |

|           | grad | grad | method |
|-----------|------|------|--------|
| Method I  | 2.0  | 1.0  | C      |
| Method II | 1.5  |      | C      |

Wb Depth .3 .4 .4 Method MS  
Stage ☐ L ☒ M ☐ H  
No Vis.Ch. ☐ Intermittent ☐  
Dw ☐ Tribs. ☐

COVER  
SWD LWD B C Total A  
DP OV IV  
T S N S D S S  
LWD A  
DIST C  
LB SHP S  
Texture ☐ F ☒ G ☐ C ☐ B ☐ R ☐ A  
RB SHP S  
Texture ☐ F ☒ G ☐ C ☐ B ☐ R ☐ A

CROWN CLOSURE  
3 41-70%

INTREAM VEG ☐ N ☒ A ☒ M ☒ V  
RIP C  
STG MF  
RIP C  
STG MF

## WATER

FLOOD SIGNS  
NONE Method GE  
Temp 7 Metho T3  
pH 7.4 Method P1  
Req #  
EMS  
Cond. 70 Method: S4  
Turb. ☐ T ☐ M ☐ L ☒ C Method: GE

## MORPHOLOGY

BED MATERIAL Dominant: G Subdom: C DISTURBANCE INDICATORS O1 B1 B2 B3 D1 D2 D3  
D95: 8 D (cm): 3 Morph: RP ☒ ☐ ☐ ☐ ☐ ☐ ☐  
Pattern IR C1 C2 C3 C4 C5 S1 S2 S3 S4 S5  
Islands O ☐ ☐ ☐ ☒ ☐ ☐ ☐ ☐ ☐ ☐  
Bars ☐ N ☒ SIDE ☒ DIAG ☒ MID ☐ SPAN ☐ BR  
Coupling DC  
Confinement UN

# FDIS Site Card

1999/01/22

Watershed Code:

Reach # 1- ILP Map # 93L.031 ILP Number 228 Site 9118  
000-000000-00000-00000-0000-0000-000-000-000-000-000

## FEATURE

| NID Map | NID  | Type | Hgt | Method | Lg | Method | Comments                    |
|---------|------|------|-----|--------|----|--------|-----------------------------|
| 93L.031 | 9203 | BD   | .5  | GE     |    | HC     | u/s view of the beaver pond |

| Photo     | UTM (Zone/East/North) | Method |
|-----------|-----------------------|--------|
| R 23 F 22 |                       |        |

TRIB ☐ SC ☐ FC ☐ SWP/SLG ☐ FL/BV ☐

## HABITAT QUALITY

| Name               | Comments                                          |
|--------------------|---------------------------------------------------|
| OverWinter Habitat | excellent                                         |
| Rearing Habitat    | excellent                                         |
| Spawning Habitat   | good - accessible to resident and anadromous fish |

## PHOTO DOCUMENTATION

| Photo     | Foc | Lg | Dir | Comments                   |
|-----------|-----|----|-----|----------------------------|
| R 23 F 19 | STD | U  |     | person and flowing channel |
| R 23 F 24 | STD | D  |     | Bryan and channel          |

## WILDLIFE

## COMMENT

| Section | Comments                                                                   |
|---------|----------------------------------------------------------------------------|
| CHANNEL | nice ground water stream with lots of fish and good rearing in beaver pond |

# FDIS Fish Form

1999/01/22

Reach # 1 ILP Map # 93L.031 ILP # 228

Watershed Code: 000-000000-00000-00000-0000-0000-000-000-000-000-000

## WATERBODY

Gazetted Name:

Local:

WS Code: 000-000000-00000-00000-0000-0000-000-000-000-000-000

Lake/Stream: S

Waterbody ID:

ILP Map #: 93L.031

ILP #: 228

Project ID: 06-ZYMO-000000325-1999

Reach #: 1

Fish Permit #: 34770-20

Date: 1998/10/19

To: 1998/10/19

Agency C172

Crew: SMJ/TMM

Resample: ☐

## SITE / METHOD

| Site# | NID Map | NID # | UTM:Zone/East/North/Mthd | MTD/NO | Temp | Cond | Turbid | Comment |
|-------|---------|-------|--------------------------|--------|------|------|--------|---------|
| 9118  | 93L.031 | 9118  |                          | EF 1   | 7.0  | 70   | C      |         |

## A. GEAR SETTINGS

| Site# | MTD/NO | H/P | Date In    | Time In | Date Out   | Time Out | Comment |
|-------|--------|-----|------------|---------|------------|----------|---------|
| 9118  | EF 1   | 1   | 1998/10/19 | 15:30   | 1998/10/19 | 15:45    |         |

## B. NET/TRAP SPECIFICATIONS

## C. ELECTROFISHER SPECIFICATIONS

| Site# | MTD/NO | H/P | Encl | Sec | Length | Width | Volt | Freq | Pulse | Make      | Model |
|-------|--------|-----|------|-----|--------|-------|------|------|-------|-----------|-------|
| 9118  | EF 1   | 1   | O    | 210 | 100.0  | 2.0   | 300  | 70   | 6     | SMITHROOT | 12B   |

## FISH SUMMARY

| Site# | MTD/NO | H/P | Species | Stage | Age | Total # | Lgth (Min/Max) | FishAct | Comment |
|-------|--------|-----|---------|-------|-----|---------|----------------|---------|---------|
| 9118  | EF 1   | 1   | RB      | J     |     | 1       | 34 34          | R       |         |
| 9118  | EF 1   | 1   | BT      | J     |     | 1       | 100 100        | R       |         |
| 9118  | EF 1   | 1   | CO      | J     |     | 1       | 95 95          | R       |         |

## INDIVIDUAL FISH DATA

| Site# | MTD/NO | H/P | Species | Length | Weight | Sex | Mat | Age<br>Str/Smpl#/Age | Vch# | Genetic<br>Str/Smpl# | Roll # | Frame# | Comment |
|-------|--------|-----|---------|--------|--------|-----|-----|----------------------|------|----------------------|--------|--------|---------|
| 9118  | EF 1   | 1   | BT      | 100    |        | U   | IM  |                      |      |                      | 41     | 7      |         |
| 9118  | EF 1   | 1   | RB      | 34     |        | U   | IM  |                      |      |                      | 23     | 21     |         |
| 9118  | EF 1   | 1   | CO      | 95     |        | U   | IM  |                      |      |                      | 23     | 20     |         |

## COMMENTS

| Section   | Comments                     |
|-----------|------------------------------|
| WATERBODY | excellent fish rearing creek |



# FDIS Reach Card

Reach #    ILP Map #    ILP #

1

1999/01/22

Watershed Code: 440-256900-17300-00000-0000-0000-000-000-000-000-000

## PROJECT

Project Name    Skeena Cellulose Fish Inventory    Project Code    06-ZYMO-000000325-1999  
Stream Name (gaz.)    CLORE RIVER  
Project Watershed Code    440-256900-00000-00000-0000-0000-000-000-000-000-000

## WATERSHED

Reach Watershed Code    440-256900-17300-00000-0000-0000-000-000-000-000-000-000  
ILP Map #    ILP #    Reach #    NID Map #    NID #    UTM(Zone/East/North/Method)  
1.0    93L.031    2461

Gazetted Name    Local Name    Sample Type    B    Wetland ☐

## SURVEY INFO

Date    1998/09/16    Agency    C172    Crew    SMJ/TMM

## ATTRIBUTES

Length (km)    .70    US Elev    500    DISTURBANCE    O1    B1    B2    B3    D1    D2    D3  
INDICATORS    ☐    ☐    ☐    ☐    ☐    ☐    ☐  
DS Elev.    330    Magnitude    3    C1    C2    C3    C4    C5    S1    S2    S3    S4    S5  
Gradient    24.29    Order    2    BGC Zone    CWH    ☐    ☐    ☐    ☐    ☐    ☐    ☐    ☐    ☐  
Setting    VW    Islands    N  
Open water    A    Bars    ☒ N    ☐ SIDE    ☐ DIAG    ☐ MID    ☐ SPAN    ☐ BR  
Confinement    UN    Mass Movement    M  
Coupling    PC    Riparian Veg.    C  
Valley Flat    N    C/D    Exposed/Eroded    NV  
Active Floodplain    Visible ☐ Est. Width:    Landuse    NO  
Channel Pattern    ST

## MAPS

Map Type    Map #    Year  
TRIM    93L.031    1990

## AIR PHOTOS

Line    Number  
BCB8018    230

## FEATURES

## PHOTOS

## COMMENTS



# FDIS Site Card

1999/01/22

Reach #

ILP Map #

ILP Number

Site

1—

9119

Watershed Code:

440-256900-17300-00000-0000-0000-000-000-000-000

## FEATURE

TRIB ☐ SC ☐ FC ☐ SWP/SLG ☐ FL/BV ☐

## HABITAT QUALITY

| Name             | Comments                                                                   |
|------------------|----------------------------------------------------------------------------|
| Rearing Habitat  | poor quality - very steep with few deep stable pools                       |
| Spawning Habitat | isolated patches in tailouts of pools above steep cascade section at mouth |

## PHOTO DOCUMENTATION

| Photo | Foc | Lg | Dir | Comments |                                |
|-------|-----|----|-----|----------|--------------------------------|
| R 23  | F   | 27 | STD | X        | confluence                     |
| R 23  | F   | 28 | STD | X        | Tania                          |
| R 23  | F   | 29 | STD | U        | LWD filled gulley              |
| R 23  | F   | 30 | STD | U        | channel and Steve above gulley |

## WILDLIFE

## COMMENT

| Section | Comments                                                                                                                   |
|---------|----------------------------------------------------------------------------------------------------------------------------|
| CHANNEL | First 100m of creek u/s of Clore is a steep (25-35%) gulley filled with LWD and sediment wedges and an abundance of steps. |
| CHANNEL | Above the steep section is a 20% section with stable banks that is likely too steep for fish to ascend.                    |

# FDIS Fish Form

1999/01/22

Reach # ILP Map # ILP #

1

Watershed Code: 440-256900-17300-00000-00000-0000-000-000-000-000-000

## WATERBODY

Gazetted Name:

Local:

WS Code: 440-256900-17300-00000-00000-0000-000-000-000-000-000

Lake/Stream: S

Waterbody ID:

ILP Map #:

ILP #:

Project ID: 06-ZYMO-000000325-1999

Reach #: 1

Fish Permit #: 34770-20 Date: 1998/10/19 To: 1998/10/19 Agency C172 Crew: SMJ/TMM Resample: ☐

## SITE / METHOD

| Site# | NID Map | NID # | UTM:Zone/East/North/Mthd | MTD/NO | Temp | Cond | Turbid | Comment |
|-------|---------|-------|--------------------------|--------|------|------|--------|---------|
| 9119  | 93L.031 | 9119  |                          | EF 1   | 6.0  | 60   | C      |         |

## A. GEAR SETTINGS

| Site# | MTD/NO | H/P | Date In    | Time In | Date Out   | Time Out | Comment |
|-------|--------|-----|------------|---------|------------|----------|---------|
| 9119  | EF 1   | 1   | 1998/10/19 | 17:10   | 1998/10/19 | 17:20    |         |

## B. NET/TRAP SPECIFICATIONS

## C. ELECTROFISHER SPECIFICATIONS

| Site# | MTD/NO | H/P | Encl | Sec | Length | Width | Volt | Freq | Pulse | Make      | Model |
|-------|--------|-----|------|-----|--------|-------|------|------|-------|-----------|-------|
| 9119  | EF 1   | 1   | O    | 246 | 100.0  | 2.0   | 400  | 70   | 6     | SMITHROOT | 12B   |

## FISH SUMMARY

| Site# | MTD/NO | H/P | Species | Stage | Age | Total # | Lgth (Min/Max) | FishAct | Comment |
|-------|--------|-----|---------|-------|-----|---------|----------------|---------|---------|
| 9119  | EF     | 1 1 | NFC     |       |     | 0       |                |         |         |

## INDIVIDUAL FISH DATA

## COMMENTS

**Appendix II: Photodocumentation Form 1, Photodocumentation Spreadsheet and Thumbnail Images**

**PHOTO SURVEY FORM 1 - EQUIPMENT DETAILS**

Survey start date: Oct 14/98  
Survey end date: Oct 19/98

Agency: C172  
Crew: BLW/MLP/TMM/SM

**Camera #1**

|                 |                    |           |
|-----------------|--------------------|-----------|
| Make and Model: | Canon Sure Shot A1 | Lenses: A |
| Format:         | 135mm film         |           |

**Camera #2**

|                 |                  |             |
|-----------------|------------------|-------------|
| Make and Model: | Pentax Zoom90-WR | Lenses: B C |
| Format:         | 135mm film       |             |

**Lenses**

| Focal Length (mm) | Focal Length (mm) |
|-------------------|-------------------|
| A 32              | D                 |
| B 38              | E                 |
| C 90              | F                 |

**Roll Details**

| Roll # | Camera # | Output Medium | Film Type | ISO |
|--------|----------|---------------|-----------|-----|
| 26     | 2        | Slide         | colour    | 200 |
| 23     | 2        | Slide         | colour    | 200 |
| 40     | 1        | Slide         | colour    | 200 |
| 41     | 1        | Slide         | colour    | 200 |
|        |          |               |           |     |

Clore River 1:20K Inventory: Project #06-ZYMO-0000-0325-1999

Photodocumentation Spreadsheet

| Date      | Project_Code           | Site/Nid | Nid Map  | Roll | Frame | Focal | Dir | Comment                                                             | CD Number      | CD Image |
|-----------|------------------------|----------|----------|------|-------|-------|-----|---------------------------------------------------------------------|----------------|----------|
| 14-Oct-98 | 06-ZYMO-0000-0325-1999 | 9200     | 93L.011  | 26   | 2     | STD   | U   | Falls 10 m                                                          | 8249 3203 0360 | 2        |
| 14-Oct-98 | 06-ZYMO-0000-0325-1999 | 9100     | 93L.011  | 26   | 3     | STD   | D   | T.M. and channel 50m u/s fo mouth                                   | 8249 3203 0360 | 3        |
| 14-Oct-98 | 06-ZYMO-0000-0325-1999 | 9101     | 93L.021  | 26   | 6     | STD   | D   | packsack and cascades                                               | 8249 3203 0360 | 6        |
| 14-Oct-98 | 06-ZYMO-0000-0325-1999 | 9101     | 93L.021  | 26   | 7     | STD   | U   | packsack and cascades                                               | 8249 3203 0360 | 7        |
| 14-Oct-98 | 06-ZYMO-0000-0325-1999 | 9100     | 93L.011  | 26   | 8     | STD   | U   | vest and pools connected by overland flow and seepage               | 8249 3203 0360 | 8        |
| 14-Oct-98 | 06-ZYMO-0000-0325-1999 | 9101     | 93L.021  | 26   | 9     | STD   | U   | aerial shot of barriers in channel                                  | 8249 3203 0360 | 9        |
| 14-Oct-98 | 06-ZYMO-0000-0325-1999 | 9100     | 93L.011  | 26   | 10    | STD   | U   | waterfalls at mouth - aerial shot                                   | 8249 3203 0360 | 10       |
| 14-Oct-98 | 06-ZYMO-0000-0325-1999 | 9102     | 93L.011  | 26   | 11    | STD   | U   | meter stick                                                         | 8249 3203 0360 | 11       |
| 14-Oct-98 | 06-ZYMO-0000-0325-1999 | 9102     | 93L.011  | 26   | 12    | STD   | D   | 2 people at confluence                                              | 8249 3203 0360 | 12       |
| 14-Oct-98 | 06-ZYMO-0000-0325-1999 | 9102     | 93L.011  | 26   | 13    | STD   | U   | B.P. and barrier 170m u/s                                           | 8249 3203 0360 | 13       |
| 14-Oct-98 | 06-ZYMO-0000-0325-1999 | 9103     | 93L.021  | 26   | 14    | STD   | NS  | BT 160mm                                                            | 8249 3203 0360 | 14       |
| 14-Oct-98 | 06-ZYMO-0000-0325-1999 | 9103     | 93L.021  | 26   | 15    | STD   | NS  | BT 160mm                                                            | 8249 3203 0360 | 15       |
| 14-Oct-98 | 06-ZYMO-0000-0325-1999 | 9103     | 93L.021  | 26   | 16    | STD   | NS  | BT 160mm                                                            | 8249 3203 0360 | 16       |
| 14-Oct-98 | 06-ZYMO-0000-0325-1999 | 9103     | 93L.021  | 26   | 17    | STD   | U   | SJ in channel                                                       | 8249 3203 0360 | 17       |
| 14-Oct-98 | 06-ZYMO-0000-0325-1999 | 9103     | 93L.021  | 26   | 18    | STD   | D   | TM in channel                                                       | 8249 3203 0360 | 18       |
| 14-Oct-98 | 06-ZYMO-0000-0325-1999 | 9104     | 93L.021  | 26   | 19    | STD   | U   | LWD cascade                                                         | 8249 3203 0360 | 19       |
| 14-Oct-98 | 06-ZYMO-0000-0325-1999 | 9104     | 93L.021  | 26   | 20    | STD   | D   | SJ just u/s of confluence with Clore                                | 8249 3203 0360 | 20       |
| 14-Oct-98 | 06-ZYMO-0000-0325-1999 | 9104     | 93L.021  | 26   | 21    | STD   | U   | channel and far bank                                                | 8249 3203 0360 | 21       |
| 14-Oct-98 | 06-ZYMO-0000-0325-1999 | 9104     | 93L.021  | 26   | 22    | STD   | NS  | DV 72mm                                                             | 8249 3203 0360 | 22       |
| 14-Oct-98 | 06-ZYMO-0000-0325-1999 | 5007     | 103I.050 | 26   | 23    | STD   | U   | SJ at falls (EFU- R2/R3 break), Trapline Creek feature NID 5007     | 8249 3203 0360 | 23       |
| 14-Oct-98 | 06-ZYMO-0000-0325-1999 | 5007     | 103I.050 | 26   | 24    | STD   | D   | SJ at falls (EFU- R2/R3 break), Trapline Creek feature NID 5007     | 8249 3203 0360 | 24       |
| 15-Oct-98 | 06-ZYMO-0000-0325-1999 | 9105     | 103I.050 | 26   | 25    | STD   | U   | SJ in the channel                                                   | 8249 3203 0360 | 25       |
| 15-Oct-98 | 06-ZYMO-0000-0325-1999 | 9105     | 103I.050 | 26   | 26    | STD   | D   | glove and channel and confluence with Trapline Creek                | 8249 3203 0360 | 26       |
| 15-Oct-98 | 06-ZYMO-0000-0325-1999 | 9106     | 103I.050 | 26   | 27    | STD   | NS  | DV captured 20m u/s in Trapline Creek (80mm) (13tgs = 24)           | 8249 3203 0360 | 27       |
| 15-Oct-98 | 06-ZYMO-0000-0325-1999 | 9106     | 103I.050 | 26   | 28    | STD   | NS  | DV captured 20m u/s in Trapline Creek (80mm) (13tgs = 24)           | 8249 3203 0360 | 28       |
| 15-Oct-98 | 06-ZYMO-0000-0325-1999 | 9106     | 103I.050 | 26   | 29    | STD   | U   | SJ in channel 130m u/s of confluence with Trapline Creek            | 8249 3203 0360 | 29       |
| 15-Oct-98 | 06-ZYMO-0000-0325-1999 | 9106     | 103I.050 | 26   | 30    | STD   | D   | SJ facing downstream 100m u/s of confluence with Trapline Creek     | 8249 3203 0360 | 30       |
| 15-Oct-98 | 06-ZYMO-0000-0325-1999 | 9106     | 103I.050 | 26   | 31    | STD   | U   | S3 trib which joins LP93, 60m u/s of confluence with Trapline Creek | 8249 3203 0360 | 31       |
| 15-Oct-98 | 06-ZYMO-0000-0325-1999 | 9106     | 103I.050 | 26   | 32    | STD   | D   | confluence with trib ILP 093                                        | 8249 3203 0360 | 32       |
| 15-Oct-98 | 06-ZYMO-0000-0325-1999 | 9105     | 103I.050 | 26   | 33    | STD   | D   | taken 100m u/s from the confluence with Trapline Creek              | 8249 3203 0360 | 33       |



| Date      | Project_Code           | Site/Nid | Nid Map  | Roll | Frame | Focal | Dir | Comment                                                | CD Number      | CD Image |
|-----------|------------------------|----------|----------|------|-------|-------|-----|--------------------------------------------------------|----------------|----------|
| 15-Oct-98 | 06-ZYMO-0000-0325-1999 | 9105     | 103I.050 | 26   | 34    | STD   | D   | taken 100m u/s from the confluence with Trapline Creek | 8249 3203 0360 | 34       |
| 14-Oct-98 | 06-ZYMO-0000-0325-1999 | 6100     | 93L.021  | 40   | 1     | STD   | U   | channel with MP and Brad                               | 8249 3203 0360 | 36       |
| 14-Oct-98 | 06-ZYMO-0000-0325-1999 | 6100     | 93L.021  | 40   | 2     | STD   | D   | anode and channel in frame                             | 8249 3203 0360 | 37       |
| 14-Oct-98 | 06-ZYMO-0000-0325-1999 | 6101     | 93L.021  | 40   | 4     | STD   | U   | BW in channel                                          | 8249 3203 0360 | 38       |
| 14-Oct-98 | 06-ZYMO-0000-0325-1999 | 6101     | 93L.021  | 40   | 5     | STD   | D   | channel at POT of site with wood on both banks         | 8249 3203 0360 | 39       |
| 14-Oct-98 | 06-ZYMO-0000-0325-1999 | 6102     | 93L.021  | 40   | 6     | STD   | NS  | DV 118mm                                               | 8249 3203 0360 | 40       |
| 14-Oct-98 | 06-ZYMO-0000-0325-1999 | 6102     | 93L.021  | 40   | 7     | STD   | U   | MP in channel                                          | 8249 3203 0360 | 41       |
| 14-Oct-98 | 06-ZYMO-0000-0325-1999 | 6102     | 93L.021  | 40   | 8     | STD   | D   | mouth of channel (confluence with the Clore River)     | 8249 3203 0360 | 42       |
| 14-Oct-98 | 06-ZYMO-0000-0325-1999 | 6103     | 93L.021  | 40   | 9     | STD   | U   | MP on Left Bank                                        | 8249 3203 0360 | 43       |
| 14-Oct-98 | 06-ZYMO-0000-0325-1999 | 6103     | 93L.021  | 40   | 10    | STD   | D   | channel                                                | 8249 3203 0360 | 44       |
| 14-Oct-98 | 06-ZYMO-0000-0325-1999 | 6104     | 93L.021  | 40   | 11    | STD   | U   | MP on LB and cut block at bend in creek                | 8249 3203 0360 | 45       |
| 14-Oct-98 | 06-ZYMO-0000-0325-1999 | 6104     | 93L.021  | 40   | 12    | STD   | D   | channel with very nice habitat                         | 8249 3203 0360 | 46       |
| 14-Oct-98 | 06-ZYMO-0000-0325-1999 | 6104     | 93L.021  | 40   | 13    | STD   | NS  | BT 104mm                                               | 8249 3203 0360 | 47       |
| 15-Oct-98 | 06-ZYMO-0000-0325-1999 | 6105     | 103I.040 | 40   | 14    | STD   | U   | BW on log across banks                                 | 8249 3203 0360 | 48       |
| 15-Oct-98 | 06-ZYMO-0000-0325-1999 | 6105     | 103I.040 | 40   | 15    | STD   | U   | channel with LWD                                       | 8249 3203 0360 | 49       |
| 15-Oct-98 | 06-ZYMO-0000-0325-1999 | 6106     | 103I.050 | 40   | 16    | STD   | NS  | DV 93mm                                                | 8249 3203 0360 | 50       |
| 15-Oct-98 | 06-ZYMO-0000-0325-1999 | 6106     | 103I.050 | 40   | 17    | STD   | U   | cascade                                                | 8249 3203 0360 | 51       |
| 15-Oct-98 | 06-ZYMO-0000-0325-1999 | 6106     | 103I.050 | 40   | 18    | STD   | D   | channel with LWD across banks                          | 8249 3203 0360 | 52       |
| 15-Oct-98 | 06-ZYMO-0000-0325-1999 | 6106     | 103I.050 | 40   | 19    | STD   | U   | confluence with Trapline                               | 8249 3203 0360 | 53       |
| 15-Oct-98 | 06-ZYMO-0000-0325-1999 | 6107     | 103I.050 | 40   | 20    | STD   | D   | channel                                                | 8249 3203 0360 | 54       |
| 15-Oct-98 | 06-ZYMO-0000-0325-1999 | 6107     | 103I.050 | 40   | 21    | STD   | U   | cascade over moss                                      | 8249 3203 0360 | 55       |
| 15-Oct-98 | 06-ZYMO-0000-0325-1999 | 6108     | 103I.050 | 40   | 22    | STD   | U   | most apparent channel from mouth                       | 8249 3203 0360 | 56       |
| 15-Oct-98 | 06-ZYMO-0000-0325-1999 | 6108     | 103I.050 | 40   | 23    | STD   | U   | area of sediment and scour present on LB               | 8249 3203 0360 | 57       |
| 15-Oct-98 | 06-ZYMO-0000-0325-1999 | 6108     | 103I.050 | 40   | 24    | STD   | U   | channel present u/s of disturbed fluvial fan           | 8249 3203 0360 | 58       |
| 15-Oct-98 | 06-ZYMO-0000-0325-1999 | 6112     | 103I.050 | 40   | 25    | STD   | U   | with BW on log                                         | 8249 3203 0360 | 59       |
| 15-Oct-98 | 06-ZYMO-0000-0325-1999 | 6112     | 103I.050 | 40   | 26    | STD   | D   | showing disturbed channel                              | 8249 3203 0360 | 60       |
| 16-Oct-98 | 06-ZYMO-0000-0325-1999 | 6113     | 103I.050 | 40   | 27    | STD   | NS  | RB 83mm                                                | 8249 3203 0360 | 61       |
| 16-Oct-98 | 06-ZYMO-0000-0325-1999 | 6113     | 103I.050 | 40   | 28    | STD   | U   | BW shocking-note eroding bank on LB                    | 8249 3203 0360 | 62       |
| 16-Oct-98 | 06-ZYMO-0000-0325-1999 | 6113     | 103I.050 | 40   | 29    | STD   | D   | showing LWD-debris jam                                 | 8249 3203 0360 | 63       |
| 16-Oct-98 | 06-ZYMO-0000-0325-1999 | 6115     | 93L.031  | 40   | 30    | STD   | U   | showing vegetation in channel                          | 8249 3203 0360 | 64       |
| 16-Oct-98 | 06-ZYMO-0000-0325-1999 | 6115     | 93L.031  | 40   | 31    | STD   | D   | mouth of channel                                       | 8249 3203 0360 | 65       |
| 16-Oct-98 | 06-ZYMO-0000-0325-1999 | 6116     | 93L.031  | 40   | 32    | STD   | NS  | DV 78mm                                                | 8249 3203 0360 | 66       |
| 16-Oct-98 | 06-ZYMO-0000-0325-1999 | 6116     | 93L.031  | 40   | 33    | STD   | U   | BW shocking                                            | 8249 3203 0360 | 67       |

| Date      | Project Code           | Site/Nid | Nid Map  | Roll | Frame | Focal | Dir | Comment                                   | CD Number      | CD Image |
|-----------|------------------------|----------|----------|------|-------|-------|-----|-------------------------------------------|----------------|----------|
| 16-Oct-98 | 06-ZYMO-0000-0325-1999 | 6116     | 93L.031  | 40   | 34    | STD   | D   | LWD and SWD across channel                | 8249 3203 0360 | 68       |
| 16-Oct-98 | 06-ZYMO-0000-0325-1999 | 6117     | 93L.031  | 40   | 35    | STD   | NS  | RB 110mm                                  | 8249 3203 0360 | 69       |
| 16-Oct-98 | 06-ZYMO-0000-0325-1999 | 6117     | 93L.031  | 40   | 36    | STD   | U   | large moss covered log across the channel | 8249 3203 0360 | 70       |
| 16-Oct-98 | 06-ZYMO-0000-0325-1999 | 9107     | 103I.050 | 23   | 1     | STD   | U   | person and channel and slash              | 8249 3203 0360 | 71       |
| 16-Oct-98 | 06-ZYMO-0000-0325-1999 | 9107     | 103I.050 | 23   | 2     | STD   | D   | glove and channel                         | 8249 3203 0360 | 72       |
| 16-Oct-98 | 06-ZYMO-0000-0325-1999 | 9108     | 93L.031  | 23   | 3     | STD   | U   | person in shot                            | 8249 3203 0360 | 73       |
| 16-Oct-98 | 06-ZYMO-0000-0325-1999 | 9108     | 93L.031  | 23   | 4     | STD   | D   | channel and pools                         | 8249 3203 0360 | 74       |
| 16-Oct-98 | 06-ZYMO-0000-0325-1999 | 9109     | 103I.040 | 23   | 5     | STD   | U   | helicopter                                | 8249 3203 0360 | 75       |
| 16-Oct-98 | 06-ZYMO-0000-0325-1999 | 9109     | 103I.040 | 23   | 6     | STD   | D   | jacket on corner                          | 8249 3203 0360 | 76       |
| 16-Oct-98 | 06-ZYMO-0000-0325-1999 | 9110     | 93L.031  | 23   | 7     | STD   | U   | SJ in channel                             | 8249 3203 0360 | 77       |
| 16-Oct-98 | 06-ZYMO-0000-0325-1999 | 9110     | 93L.031  | 23   | 8     | STD   | D   | channel                                   | 8249 3203 0360 | 78       |
| 16-Oct-98 | 06-ZYMO-0000-0325-1999 | 9111     | 93L.021  | 23   | 9     | STD   | U   | falls and SJ                              | 8249 3203 0360 | 80       |
| 16-Oct-98 | 06-ZYMO-0000-0325-1999 | 9111     | 93L.021  | 23   | 10    | STD   | X   | across the confluence with the Clore      | 8249 3203 0360 | 81       |
| 16-Oct-98 | 06-ZYMO-0000-0325-1999 | 9112     | 93L.021  | 23   | 12    | STD   | X   | typical vegetation in area                | 8249 3203 0360 | 82       |
| 16-Oct-98 | 06-ZYMO-0000-0325-1999 | 9115     | 103I.050 | 23   | 13    | STD   | U   | SJ in cascade section                     | 8249 3203 0360 | 83       |
| 19-Oct-98 | 06-ZYMO-0000-0325-1999 | 9115     | 103I.050 | 23   | 14    | STD   | D   | underneath bridge and barrier falls       | 8249 3203 0360 | 84       |
| 19-Oct-98 | 06-ZYMO-0000-0325-1999 | 9116     | 93L.031  | 23   | 15    | STD   | D   | SJ in the channel                         | 8249 3203 0360 | 85       |
| 19-Oct-98 | 06-ZYMO-0000-0325-1999 | 9116     | 93L.031  | 23   | 16    | STD   | U   | out of focus, channel, log on right       | 8249 3203 0360 | 86       |
| 19-Oct-98 | 06-ZYMO-0000-0325-1999 | 9117     | 93L.031  | 23   | 17    | STD   | U   | channel with heavy deciduous veg          | 8249 3203 0360 | 87       |
| 19-Oct-98 | 06-ZYMO-0000-0325-1999 | 9117     | 93L.031  | 23   | 18    | STD   | D   | heavily vegetated channel, SJ downstream  | 8249 3203 0360 | 88       |
| 19-Oct-98 | 06-ZYMO-0000-0325-1999 | 9118     | 93L.031  | 23   | 19    | STD   | U   | person and flowing channel                | 8249 3203 0360 | 89       |
| 19-Oct-98 | 06-ZYMO-0000-0325-1999 | 9118     | 93L.031  | 23   | 20    | STD   | NS  | CO 95mm                                   | 8249 3203 0360 | 90       |
| 19-Oct-98 | 06-ZYMO-0000-0325-1999 | 9118     | 93L.031  | 23   | 21    | STD   | NS  | RB 34mm                                   | 8249 3203 0360 | 91       |
| 19-Oct-98 | 06-ZYMO-0000-0325-1999 | 9203     | 93L.031  | 23   | 22    | STD   | U   | BD 0.5m                                   | 8249 3203 0360 | 92       |
| 19-Oct-98 | 06-ZYMO-0000-0325-1999 | 9118     | 93L.031  | 23   | 24    | STD   | D   | BW and channel                            | 8249 3203 0360 | 94       |
| 19-Oct-98 | 06-ZYMO-0000-0325-1999 | 9119     | 93L.031  | 23   | 27    | STD   | X   | confluence                                | 8249 3203 0360 | 97       |
| 19-Oct-98 | 06-ZYMO-0000-0325-1999 | 9119     | 93L.031  | 23   | 28    | STD   | X   | TM in shot                                | 8249 3203 0360 | 98       |
| 19-Oct-98 | 06-ZYMO-0000-0325-1999 | 9119     | 93L.031  | 23   | 29    | STD   | U   | 1.WPD filled gully                        | 8249 3203 0360 | 99       |
| 19-Oct-98 | 06-ZYMO-0000-0325-1999 | 9119     | 93L.031  | 23   | 30    | STD   | U   | channel and SJ above gully                | 8249 3203 0360 | 100      |
| 19-Oct-98 | 06-ZYMO-0000-0325-1999 | 6118     | 93L.021  | 41   | 1     | STD   | D   | BW and metre stick in channel             | 8249 3203 0360 | 108      |
| 19-Oct-98 | 06-ZYMO-0000-0325-1999 | 6118     | 93L.021  | 41   | 2     | STD   | U   | bend in channel at POT of site            | 8249 3203 0360 | 109      |
| 19-Oct-98 | 06-ZYMO-0000-0325-1999 | 6119     | 93L.031  | 41   | 3     | STD   | U   | BW shocking                               | 8249 3203 0360 | 110      |
| 19-Oct-98 | 06-ZYMO-0000-0325-1999 | 6120     | 93L.031  | 41   | 4     | STD   | D   | note the high flow stage of the creek     | 8249 3203 0360 | 111      |
| 19-Oct-98 | 06-ZYMO-0000-0325-1999 | 6120     | 93L.031  | 41   | 5     | STD   | U   | channel from old bridge (lower road)      | 8249 3203 0360 | 112      |
| 19-Oct-98 | 06-ZYMO-0000-0325-1999 | 6120     | 93L.031  | 41   | 6     | STD   | D   | channel from old bridge (lower road)      | 8249 3203 0360 | 113      |
| 19-Oct-98 | 06-ZYMO-0000-0325-1999 | 9118     | 93L.031  | 41   | 7     | STD   | NS  | BT 100                                    | 8249 3203 0360 | 114      |
| 19-Oct-98 | 06-ZYMO-0000-0325-1999 | 6121     | 93L.031  | 41   | 8     | STD   | U   | BW, TM and SJ on bank of channel          | 8249 3203 0360 | 115      |

| Date      | Project_Code           | Site/Nid | Nid Map | Roll | Frame | Focal | Dir | Comment                | CD Number      | CD Image |
|-----------|------------------------|----------|---------|------|-------|-------|-----|------------------------|----------------|----------|
| 19-Oct-98 | 06-ZYMO-0000-0325-1999 | 6121     | 93L.031 | 41   | 9     | STD   | D   | BW on bank of channel  | 8249 3203 0360 | 116      |
| 19-Oct-98 | 06-ZYMO-0000-0325-1999 | 6122     | 93L.031 | 41   | 10    | STD   | NS  | RB 69                  | 8249 3203 0360 | 117      |
| 19-Oct-98 | 06-ZYMO-0000-0325-1999 | 6122     | 93L.031 | 41   | 11    | STD   | U   | channel with LWD       | 8249 3203 0360 | 118      |
| 19-Oct-98 | 06-ZYMO-0000-0325-1999 | 6122     | 93L.031 | 41   | 12    | STD   | D   | channel                | 8249 3203 0360 | 119      |
| 19-Oct-98 | 06-ZYMO-0000-0325-1999 |          |         |      |       |       |     | Aerial shots of valley | 8249 3203 0360 | 120      |
| 19-Oct-98 | 06-ZYMO-0000-0325-1999 |          |         |      |       |       |     | Aerial shots of valley | 8249 3203 0360 | 121      |
| 19-Oct-98 | 06-ZYMO-0000-0325-1999 |          |         |      |       |       |     | Aerial shots of valley | 8249 3203 0360 | 122      |
| 19-Oct-98 | 06-ZYMO-0000-0325-1999 |          |         |      |       |       |     | Aerial shots of valley | 8249 3203 0360 | 123      |
| 19-Oct-98 | 06-ZYMO-0000-0325-1999 |          |         |      |       |       |     | Aerial shots of valley | 8249 3203 0360 | 124      |
| 19-Oct-98 | 06-ZYMO-0000-0325-1999 |          |         |      |       |       |     | Aerial shots of valley | 8249 3203 0360 | 125      |
| 19-Oct-98 | 06-ZYMO-0000-0325-1999 |          |         |      |       |       |     | Aerial shots of valley | 8249 3203 0360 | 126      |
| 19-Oct-98 | 06-ZYMO-0000-0325-1999 |          |         |      |       |       |     | Aerial shots of valley | 8249 3203 0360 | 127      |
| 19-Oct-98 | 06-ZYMO-0000-0325-1999 |          |         |      |       |       |     | Aerial shots of valley | 8249 3203 0360 | 128      |
| 19-Oct-98 | 06-ZYMO-0000-0325-1999 |          |         |      |       |       |     | Aerial shots of valley | 8249 3203 0360 | 129      |
| 19-Oct-98 | 06-ZYMO-0000-0325-1999 |          |         |      |       |       |     | Aerial shots of valley | 8249 3203 0360 | 130      |





img0001



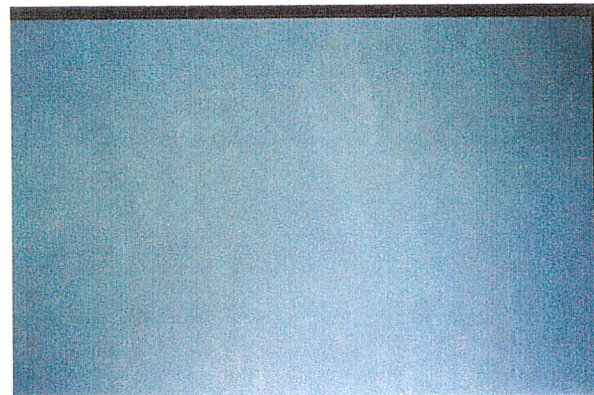
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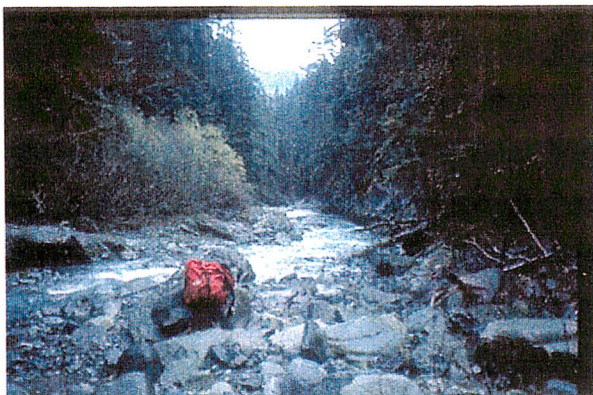


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img0006





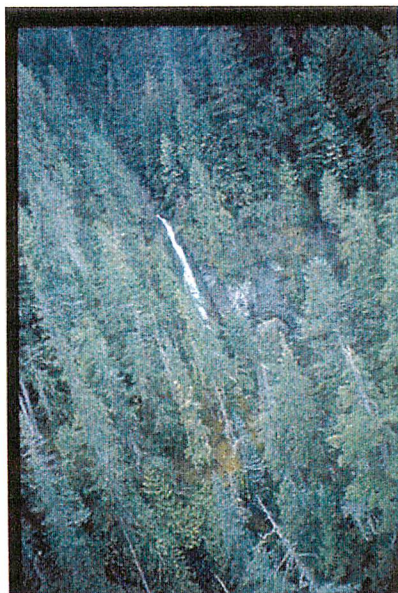
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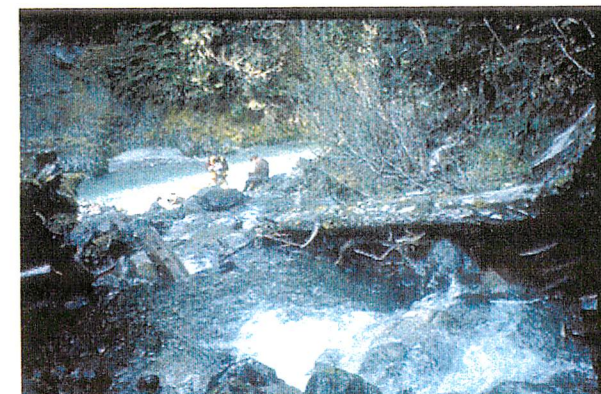
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img0011



img0012





img0013



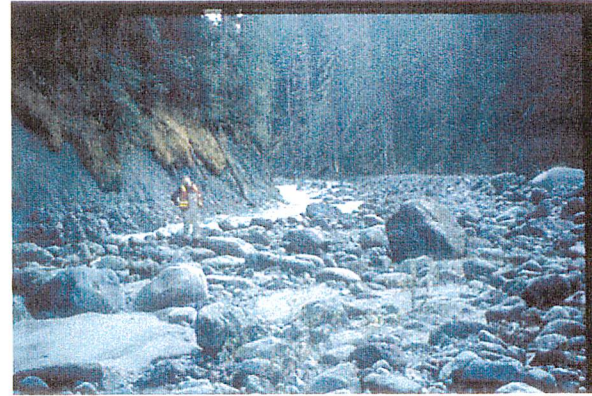
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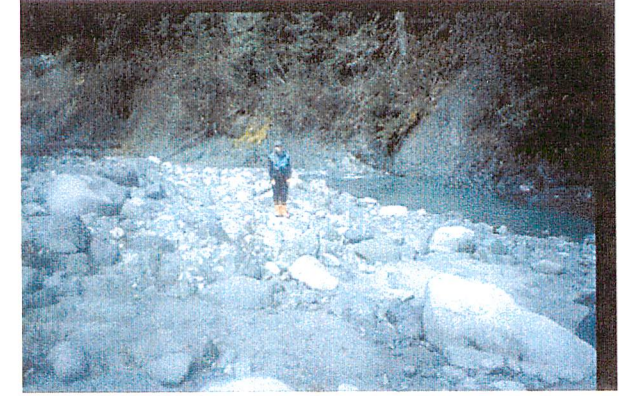
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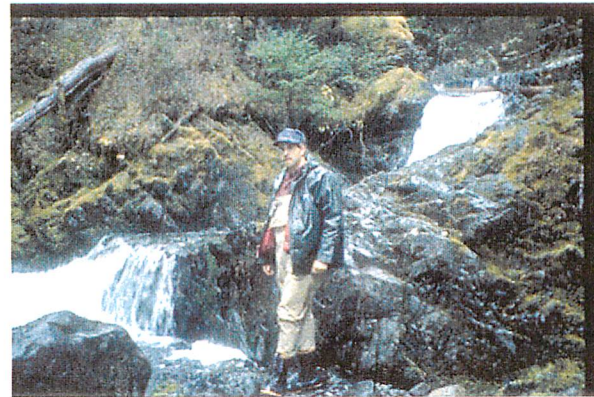
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img0033



img0034



img0035



img0036

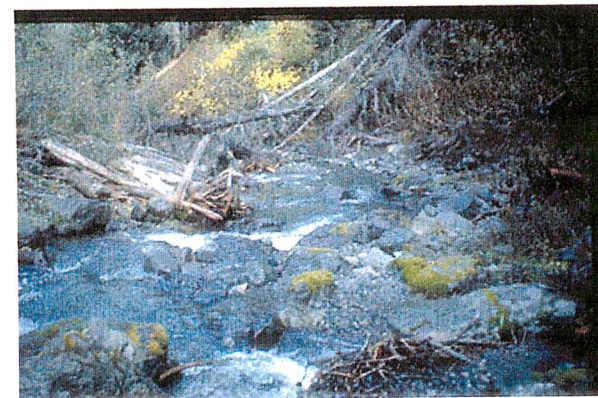




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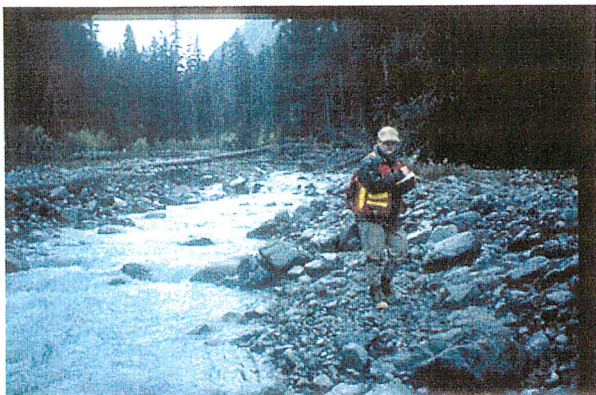


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img0043



img0044



img0045



img0046



img0047

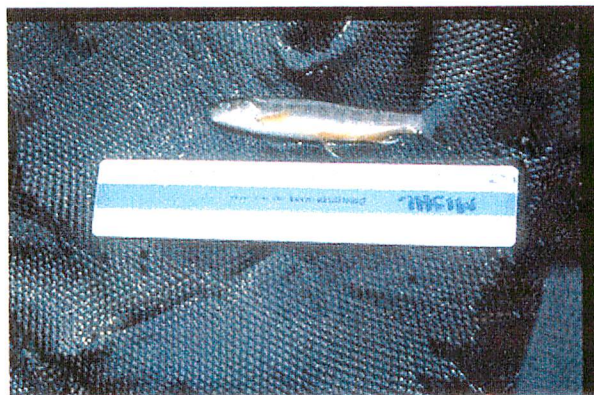


img0048





img0049



img0050



img0051



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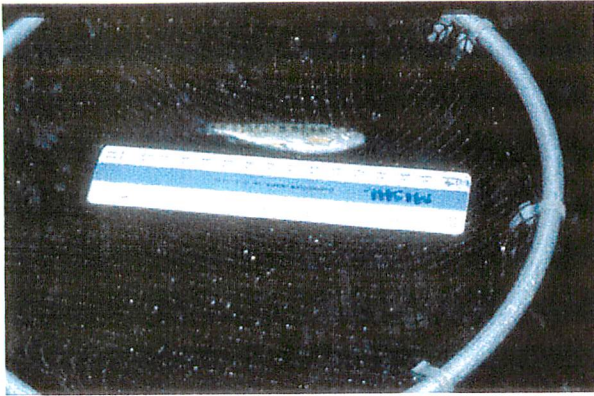


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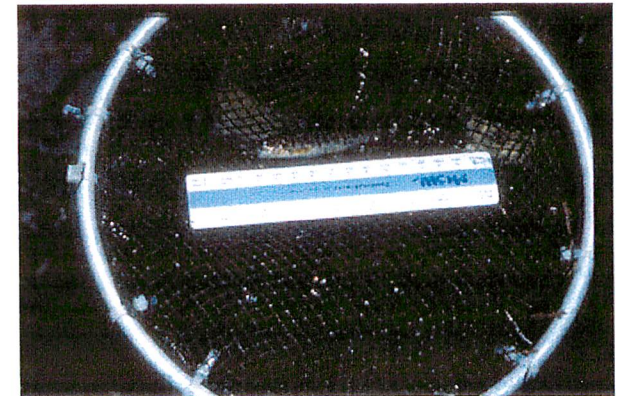
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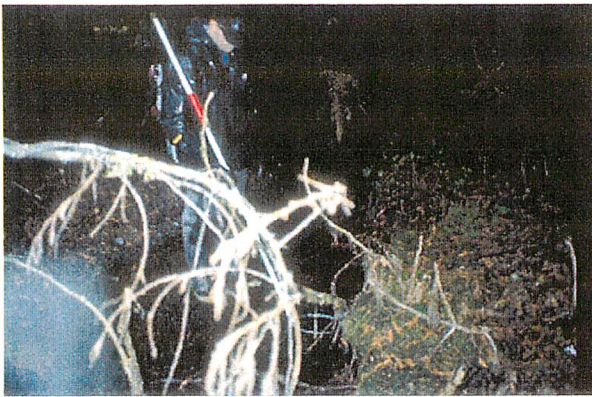


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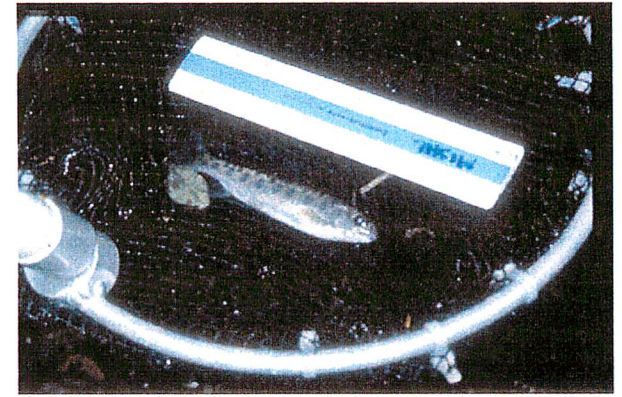




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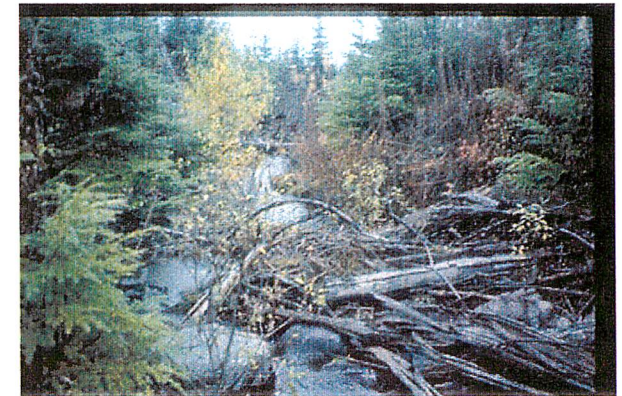
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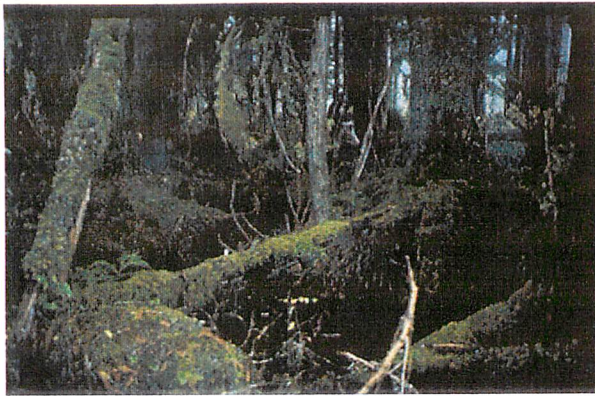


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img0075



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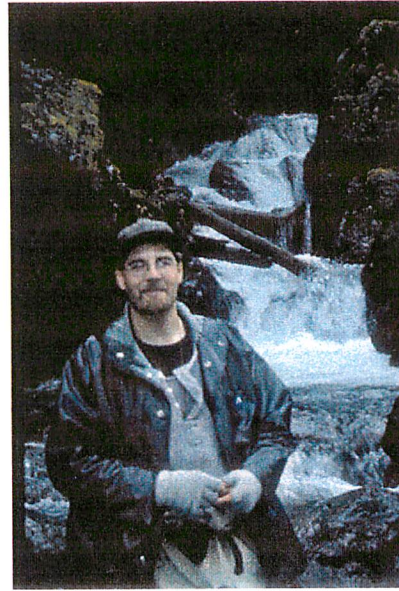


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img0081



img0082



img0083



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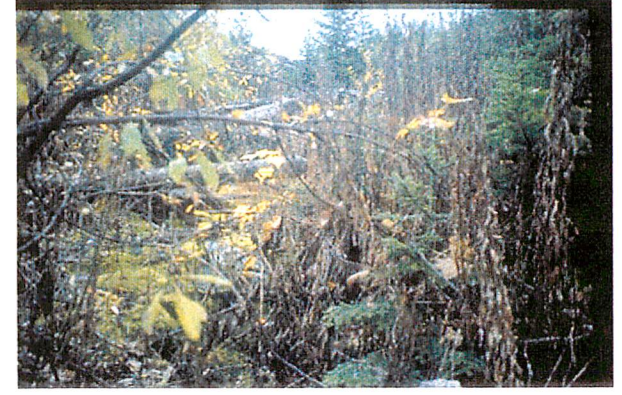




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img0090





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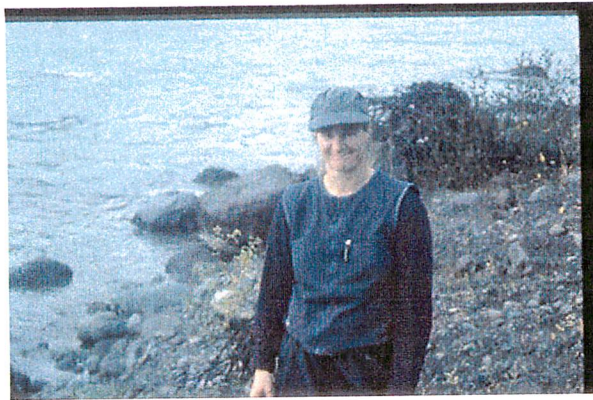


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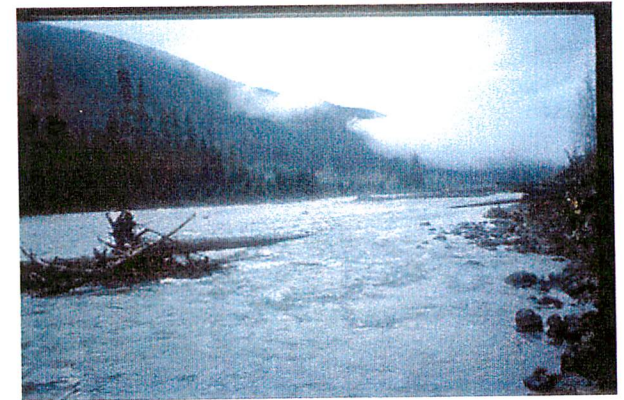
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img0100



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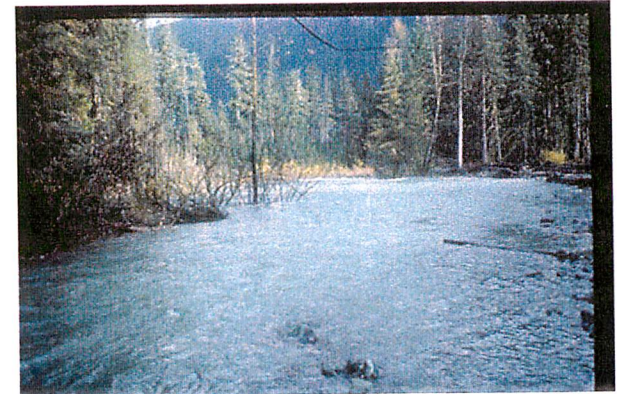




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img0115



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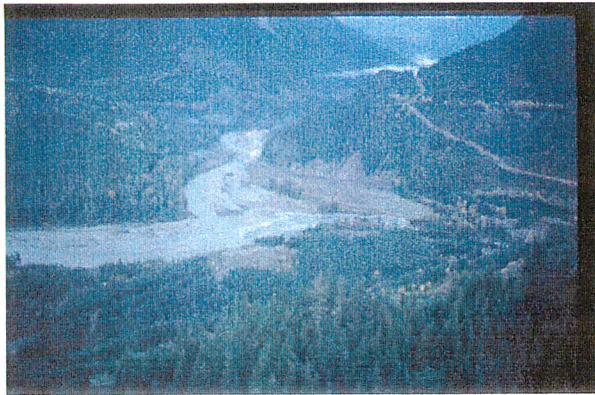


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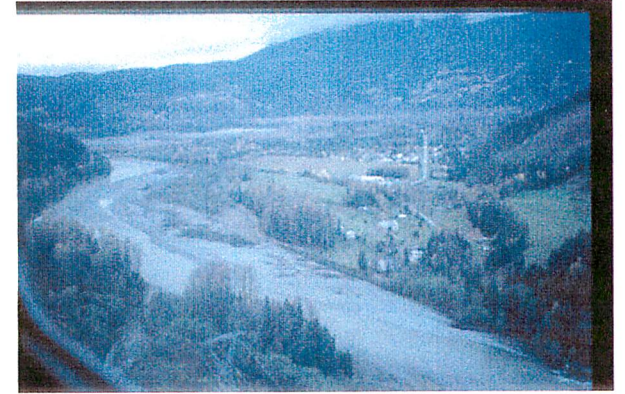




img0127



img0128



img0129



img0130

**Appendix III: 1:20,000 Scale Project Maps**

**(included separately)**

**Appendix IV: 1:20,000 Scale Interpretive Maps**

**(included separately)**