

APPENDIX I

Reach Cards/Site Cards and Fish Collection Forms

Site/Reach Card

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

Reach 1.0
Site # 25

ILP # 1352
ILP Map # 93L.090

Project Name Northwood Pulp and Timber Fish Inventory

Project Code 06-BABL-0103-0606-1998

REACH ATTRIBUTES

Sample Type B

Length (km) .60 Elevation (m): upstream 807 downstream 760 UTM (Zone/East/North/ method)
Gradient (%) 7.8 Order 1 Magnitude 1 BGC Zone SBS
Setting Valley Floor Bars ☒ None ☐ Side ☐ Diagonal ☐ Mid ☐ Span ☐ Braid
Open water A Wetland ☐ Mass Movement Not Specified Active Floodplain ☐
Confinement Occasionally Confined Exposed/Eroded Unknown, Not visible Width (m)
Coupling Decoupled Islands NONE Beaver Dam(s) ☐
Channel Pattern Sinuous Landuse None/natural LWD jam(s) ☐
Riparian Vegetation Shrubs Valley Flat Not Specified (C)ontinuous ☐
(D)iscontinuous ☐

SITE

Gazetted Name Local Name Unnamed
Survey Date 1998/09/15 Time 15:55 FIELD UTM(Zone/East/North/Method)
Crew SW/JD Access V2 MAP UTM (Zone/East/North/Method) GIS
Site Length (m) 200 Method HC Fish Card ☐ Incomplete ☐ NID Map 93L.090 NID # 25

CHANNEL

	Average	Method(s)
Channel Widths (m) 1.4 1.3 0.8 0.9 0.9 1.1	1.1	T
Wetted Widths (m)	n/a	T
Resid. Pool Depths (m)	n/a	T

No Vis.Ch. ☐	Dewatered ☐	Gradients (%) 17.0 20.0 22.0	19.7	C , C
Intermittent ☒	Tributaries ☐	Bankfull Depth (m) 0.4 0.5 0.2	0.4	T

Stage ☒ Low
☐ Med.
☐ High

COVER -		Total	Moderate	LWD Few	Dist.	Evenly Distributed
SWD	LWD	Boulder	Cutbank	Deep Pool	Over Veg	Instream Veg
Trace	Sub-Dominant	None	Dominant	None	Trace	Trace

Crown Closure
41-70%

LEFT BANK

Shape V - shaped (steep sloping or vertical)
Riparian Veg. Deciduous
Riparian Stage Pole-sapling stage

Texture ☒ Fines ☐ Gravel ☐ Cobble
☐ Boulder ☐ Rock ☐ Man Made

RIGHT BANK

Shape V - shaped (steep sloping or vertical)
Riparian Veg. Deciduous
Riparian Stage Pole-sapling stage

Texture ☒ Fines ☐ Gravel ☐ Cobble
☐ Boulder ☐ Rock ☐ Man Made

Instream Vegetation
☐ None ☐ Moss
☐ Algae ☒ Vasc.

WATER

Temperature Method T4 pH Method P2 EMS #
Conductivity Method S2 Turbidity ☐ Turbid ☐ Medium ☐ Light ☐ Clear Method GE

MORPHOLOGY

BED Dominant Gravels D95(cm) (only 5%larger) 10
MATERIAL Subdominant Fines D (cm) (moveable) 4
Channel Pattern Irregular, Wandering
Coupling Coupled
Confinement Frequently Confined
Islands None

Morphology Code
CP

Beaver Dam(s) ☐ O1
Eroding Bank(s) ☐ B2
LWD Jam(s) ☐ D3
Sediment Wedges ☐ S3

Bars

☒ None ☐ Mid
☐ Side ☐ Span
☐ Diag. ☐ Braid

Site/Reach Card

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

Reach 1.0

ILP # 1352

Site # 25

ILP Map # 93L.090

Project Name Northwood Pulp and Timber Fish Inventory

Project Code 06-BABL-0103-0606-1998

FEATURES

Type CV Height 1.0 Method GE Length 25 Method GE

Comments

Photograph Roll 12 Frame 3 UTM (Zone/East/North/ Method)

HABITAT QUALITY

FSZs

Side Chan ☐Flood/Beaver ☐Tribes ☐Flood Chan ☐Slough ☐

Name

Comments

Spawning Habitat

Lower 30 metres may offer some spawning habitat for lake residents. Suitable gravel present but no water - most likely dry 8 months of the year. Cascades above 30 metres limit fish access.

PHOTO DOCUMENTATION

Film	Compact Disc				Lens / Dir.		Comments
Roll 12	Fr	4	CD 274	Im	2	STD U	dry channel.
Roll 12	Fr	5	CD 274	Im	3	STD D	Dry channel
Roll 12	Fr	3	CD 274	Im	1	STD NS	Culvert

WILDLIFE**COMMENTS**

Form Section Comments

SITE CHANNEL

Lower 30 metres is accessible to fish, the remainder of the stream is classified as S6.

Site/Reach Card

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

Reach 1.0
Site # 34

ILP # 71314
ILP Map # 93K.071

Project Name Northwood Pulp and Timber Fish Inventory

Project Code 06-BABL-0103-0606-1998

REACH ATTRIBUTES

Sample Type R

Length (km) .69 Elevation (m): upstream 802 downstream 790 UTM (Zone/East/North/ method)
Gradient (%) 1.7 Order 1 Magnitude 1 BGC Zone SBS
Setting Plain/Large Plateau Bars ☒ None ☐ Side ☐ Diagonal ☐ Mid ☐ Span ☐ Braid
Open water A Wetland ☐ Mass Movement Low or no impact to channel; Active Floodplain ☐
Confinement Occasionally Confined Exposed/Eroded Unknown, Not visible Width (m)
Coupling Partially Coupled Islands None Visible Beaver Dam(s) ☐
Channel Pattern Sinuous Landuse None/natural LWD jam(s) ☐
Riparian Vegetation Mixed C/D Valley Flat No valley flat on either bank (C)ontinuous ☐
(D)iscontinuous ☐

SITE

Gazetted Name Local Name Unnamed
Survey Date 1998/09/17 Time 12:45 FIELD UTM(Zone/East/North/Method)
Crew JD/JH Access H MAP UTM (Zone/East/North/Method) GIS
Site Length (m) 200 Method HC Fish Card ☒ Incomplete ☐ NID Map 93K.071 NID # 34

CHANNEL

							Average	Method(s)
Channel Widths (m)	2.3	2.4	2.0	1.8	1.5	1.8	2.0	T
Wetted Widths (m)	1.8	1.5	1.6	1.5			1.6	T
Resid. Pool Depths (m)	0.14	0.15	0.16	0.17			0.15	T

No Vis.Ch. ☐	Dewatered ☐	Gradients (%)	1.0	1.0	1.0	C ,
Intermittent ☒	Tributaries ☐	Bankfull Depth (m)	0.2	0.2	0.3	T

Stage ☐ Low
☒ Med.
☐ High

COVER -		Total	Moderate	LWD	Few	Dist.	Evenly Distributed
SWD	LWD	Boulder	Cutbank	Deep Pool	Over Veg	Instream Veg	
Trace	Trace	None	Trace	Trace	Dominant	Sub-Dominant	

Crown Closure
1-20%

Instream Vegetation

☐ None ☒ Moss
☐ Algae ☒ Vasc.

LEFT BANK

Shape Sloping (gradual or shallow sloping)
Riparian Veg. Shrubs
Riparian Stage Shrub/herb stage

Texture ☒ Fines ☐ Gravel ☐ Cobble
☐ Boulder ☐ Rock ☐ Man Made

RIGHT BANK

Shape Sloping (gradual or shallow sloping)
Riparian Veg. Shrubs
Riparian Stage Shrub/herb stage

Texture ☒ Fines ☐ Gravel ☐ Cobble
☐ Boulder ☐ Rock ☐ Man Made

WATER

Temperature 8.9 Method T4 pH 7.2 Method P2 EMS #
Conductivity 100 Method S2 Turbidity ☐ Turbid ☐ Medium ☐ Light ☒ Clear Method GE

MORPHOLOGY

BED Dominant Fines D95(cm) (only 5%larger) 0.1
MATERIAL Subdominant Not Applicable (same as Dominant) D (cm) (moveable) 0.1

Channel Pattern Straight
Coupling Decoupled
Confinement Unconfined
Islands None

Morphology Code
NS

Beaver Dam(s) ☐ O1
Eroding Bank(s) ☐ B2
LWD Jam(s) ☐ D3
Sediment Wedges ☐ S3
Bars ☒ None ☐ Mid
☐ Side ☐ Span
☐ Diag. ☐ Braid

Site/Reach Card

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

Reach 1.0

ILP # 71314

Site # 34

ILP Map # 93K.071

Project Name Northwood Pulp and Timber Fish Inventory

Project Code 06-BABL-0103-0606-1998

FEATURES**HABITAT QUALITY**

FSZs

Side Chan ☐Flood/Beaver ☐Tribes ☐Flood Chan ☐Slough ☐**Name****Comments**

Rearing Habitat

Poor rearing habitat - no flows but lots of pool habitat

Spawning Habitat

No spawning habitat

PHOTO DOCUMENTATION**Film****Compact Disc****Lens / Dir.****Comments**

Roll 12 Fr 27 CD 274 Im 4 STD U Standing water between banks

Roll 12 Fr 28 CD 274 Im 5 STD D Standing water between banks

WILDLIFE**Group****Observations**

MAM

Moose

COMMENTS

FDIS Fish Form

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

Reach # 1.0

ILP # 71314

ILP Map # 93K.071

Project Name Northwood Pulp and Timber Fish Inventory

Project Code 06-BABL-0103-0606-1998

Lake / Stream	S	SITE / METHOD				Waterbody ID
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Permit 34770-20 Date: 1998/09/17 To: 1998/09/17 Crew: JH/JD Resample ☐

Site	NID MAP	NID	UTM:Zone/East/North/ Mthd	MTD/NO	Temp	Cond	Turbid	Comment
34	93K.071	34		EF 1	9.0	100	C	

GEAR SETTINGS

Site	MTD/NO	H/P	Date In	Time In	Date Out	Time Out	Comment
34	EF 1	1	1998/09/17	12:45	1998/09/17	12:55	

NET/TRAP SPECIFICATIONS

ELECTROFISHER SPECIFICATIONS

Site	MTD/NO	H/P	Encl	Sec.	Length	Width	Volts	Hz	Pulse	Make	Model
34	EF 1	1	O	102	200.0	2.0	500	60	5	SR	12 B POW

FISH SUMMARY

Site	MTD/NO	H/P	Species	Stage	Age	Total #	Lgth (Min/Max)	Activity	Comment
34	EF	1 1	RSC	J		9	22 36	R	
34	EF	1 1	RSC	J		4	32 49	R	

INDIVIDUAL FISH DATA

Site	MTD/NO	H/P	Species	Length (mm)	Weight (g)	Sex	Mat	Age	Vch#	Genetic Str/ Smpl#	Photograph Roll Fr.	Comment
34	EF	1	1	RSC	27		U	U				Unidentified minnow - FDIS won't accept C as code
34	EF	1	1	RSC	32		U	U				Unidentified minnow - FDIS won't accept C as code
34	EF	1	1	RSC	36		U	U		5	12 29	Unidentified minnow - FDIS won't accept C as code
34	EF	1	1	RSC	29		U	U				Unidentified minnow - FDIS won't accept C as code
34	EF	1	1	RSC	31		U	U				Unidentified minnow - FDIS won't accept C as code
34	EF	1	1	RSC	45		U	U				
34	EF	1	1	RSC	37		U	U				
34	EF	1	1	RSC	32		U	U				
34	EF	1	1	RSC	49		U	U			12 30	
34	EF	1	1	RSC	26		U	U		4		Unidentified minnow - FDIS won't accept C as code
34	EF	1	1	RSC	30		U	U				Unidentified minnow -

FDIS Fish Form

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

Reach # 1.0

ILP # 71314

ILP Map # 93K.071

Project Name Northwood Pulp and Timber Fish Inventory

Project Code 06-BABL-0103-0606-1998

34	EF	1	1	RSC	22	U	U
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FDIS won't
accept C as
code

Unidentified
minnow -
FDIS won't
accept C as
code

34	EF	1	1	RSC	34	U	U
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Unidentified
minnow -
FDIS won't
accept C as
code

COMMENTS

Site/Reach Card

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

Reach 1.0
Site # 35

ILP # 71303
ILP Map # 93K.071

Project Name Northwood Pulp and Timber Fish Inventory

Project Code 06-BABL-0103-0606-1998

REACH ATTRIBUTES

Sample Type B

Length (km) .43 Elevation (m): upstream 715 downstream 711 UTM (Zone/East/North/ method)
Gradient (%) 0.9 Order 4 Magnitude 42 BGC Zone SBS
Setting Plain/Large Plateau Bars ☒ None ☐ Side ☐ Diagonal ☐ Mid ☐ Span ☐ Braid
Open water A Wetland ☒ Mass Movement Low or no impact to channel; Active Floodplain ☐
Confinement Occasionally Confined Exposed/Eroded Unknown, Not visible Width (m)
Coupling Decoupled Islands None Visible Beaver Dam(s) ☐
Channel Pattern Irregular, Wandering Landuse None/natural LWD jam(s) ☐
Riparian Vegetation Shrubs Valley Flat No valley flat on either bank (C)ontinuous ☐
(D)iscontinuous ☐

SITE

Gazetted Name Local Name Big Loon Creek
Survey Date 1998/09/17 Time 14:13 FIELD UTM(Zone/East/North/Method)
Crew JD/SW Access H MAP UTM (Zone/East/North/Method) GIS
Site Length (m) 600 Method HC Fish Card ☒ Incomplete ☐ NID Map 93K.071 NID # 35

CHANNEL

									Average	Method(s)
Channel Widths (m)	3.5	4.8	5.7	6.0	6.4	4.4	12.3	6.2	T	
Wetted Widths (m)	1.6	1.0	2.7	3.9	1.5	3.3	7.8	3.1	T	
Resid. Pool Depths (m)	0.05	0.04	0.03	0.81	0.20	0.04	0.37	0.22	T	

No Vis.Ch. ☐	Dewatered ☐	Gradients (%)	1.0	2.0	1.5	AL ,	
Intermittent ☐	Tributaries ☐	Bankfull Depth (m)	0.3	0.3	0.2	0.3	T

Stage ☒ Low
☐ Med.
☐ High

COVER -		Total	Trace	LWD	Few	Dist.	Clumped
SWD	LWD	Boulder	Cutbank	Deep Pool	Over Veg	Instream Veg	
Trace	Trace	None	Trace	Sub-Dominant	Dominant	Trace	

Crown Closure
1-20%

Instream Vegetation
☐ None ☒ Moss
☐ Algae ☐ Vasc.

LEFT BANK

Shape Sloping (gradual or shallow sloping)
Riparian Veg. Deciduous
Riparian Stage Shrub/herb stage

Texture ☒ Fines ☐ Gravel ☐ Cobble
☐ Boulder ☐ Rock ☐ Man Made

RIGHT BANK

Shape V - shaped (steep sloping or vertical)
Riparian Veg. Grass
Riparian Stage Shrub/herb stage

Texture ☒ Fines ☐ Gravel ☐ Cobble
☐ Boulder ☐ Rock ☐ Man Made

WATER

Temperature 9.1 Method T4 pH 8.4 Method P2 EMS #
Conductivity 174 Method S2 Turbidity ☐ Turbid ☐ Medium ☒ Light ☐ Clear Method GE

MORPHOLOGY

BED Dominant Gravels
MATERIAL Subdominant Fines

D95(cm) (only 5% larger) 5
D (cm) (moveable) 4

Channel Pattern Irregular, Wandering
Coupling Decoupled
Confinement Unconfined
Islands None

Morphology Code
RP

Beaver Dam(s) ☐ O1
Eroding Bank(s) ☐ B2
LWD Jam(s) ☐ D3
Sediment Wedges ☐ S3
Bars
☐ None ☒ Mid
☒ Side ☐ Span
☐ Diag. ☐ Braid

Site/Reach Card

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

Reach 1.0
Site # 35ILP # 71303
ILP Map # 93K.071

Project Name Northwood Pulp and Timber Fish Inventory

Project Code 06-BABL-0103-0606-1998

FEATURES**HABITAT QUALITY**FSZs ☐ Side Chan ☐ Flood/Beaver ☐
Tribes ☐ Flood Chan ☐ Slough ☐

Name	Comments
Spawning Habitat	Good spawning habitat
Rearing Habitat	Good cover and steady flows.

PHOTO DOCUMENTATION

Film	Compact Disc	Lens / Dir.	Comments
Roll 12	Fr 33 CD 274	1m 10 STD D	Looking towards confluence with Babine Lake.
Roll 12	Fr 34 CD 274	1m 11 STD U	Upstream showing wide downstream portions of reach
Roll 12	Fr 37 CD	1m STD NS	RB specimen. Photo did not turn out. No CD image.
Roll 13	Fr 1 CD	1m STD NS	Sculpin specimen. Photo did not turn out. No CD image.
Roll 13	Fr 2 CD	1m STD NS	Squaw fish specimen. Photo did not turn out. No CD image.
Roll 13	Fr 3 CD	1m STD NS	Minnow specimen. Photo did not turn out. No CD image.

WILDLIFE

Group	Observations
MAM	Bear, moose, and cougar tracks
BIR	Sandpiper

COMMENTS

Form	Section	Comments
SITE	CHANNEL	At the downstream end of reach at Babine Lake, the stream becomes braided and has slower flows.
SITE	CHANNEL	In these portions channel width can become as wide as ~25m (GE) (wetted width ~4m) however this is not representative of reach as a whole substrate alternatives b/w sections with fines to sections with gravel/cobble.

FDIS Fish Form

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

Reach # 1.0

ILP # 71303

ILP Map # 93K.071

Project Name Northwood Pulp and Timber Fish Inventory

Project Code 06-BABL-0103-0606-1998

Lake / Stream	S	SITE / METHOD						Waterbody ID	
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Permit 34770-20 Date: 1998/09/17 To: 1998/09/17 Crew: JD/SW Resample ☐

Site	NID MAP	NID	UTM:Zone/East/North/	Mthd	MTD/NO	Temp	Cond	Turbid	Comment
35	93K.071	35			EF 1	8.4	174	L	

GEAR SETTINGS

Site	MTD/NO	H/P	Date In	Time In	Date Out	Time Out	Comment
35	EF 1	1	1998/09/17	14:13	1998/09/17	14:45	

NET/TRAP SPECIFICATIONS

ELECTROFISHER SPECIFICATIONS

Site	MTD/NO	H/P	Encl	Sec.	Length	Width	Volts	Hz	Pulse	Make	Model
35	EF 1	1	O	703	400.0	3.0	500	60	5	SR	12 B POW

FISH SUMMARY

Site	MTD/NO	H/P	Species	Stage	Age	Total #	Lgth (Min/Max)		Activity	Comment
35	EF	1	1	WSU	J	10	39	47	R	White sucker
35	EF	1	1	CAS	J	14	27	66	R	Sculpins
35	EF	1	1	RB	A	1	12	12	R	Rainbow trout
35	EF	1	1	RSC	J	2	19	23	R	Minnow

INDIVIDUAL FISH DATA

Site	MTD/NO	H/P	Species	Length (mm)	Weight (g)	Sex	Mat	Age	Str / Smp# / Age	Vch#	Genetic	Str/ Smp#	Photograph	Roll Fr.	Comment
35	EF	1	1	WSU	41		U	IM		3				13 2	Sucker. Photo did not turn out. No CD image.
35	EF	1	1	WSU	43		U	IM							Sucker
35	EF	1	1	WSU	43		U	IM							Sucker
35	EF	1	1	WSU	47		U	IM							Sucker
35	EF	1	1	WSU	45		U	IM							Sucker
35	EF	1	1	WSU	45		U	IM							Sucker
35	EF	1	1	WSU	39		U	IM							Sucker
35	EF	1	1	WSU	43		U	IM							Sucker
35	EF	1	1	WSU	39		U	IM							Sucker
35	EF	1	1	WSU	42		U	IM							Sucker
35	EF	1	1	CAS	48		U	IM							Sculpin
35	EF	1	1	CAS	66		U	IM							Sculpin
35	EF	1	1	CAS	27		U	IM							Sculpin
35	EF	1	1	CAS	39		U	IM							Sculpin
35	EF	1	1	CAS	48		U	IM							Sculpin
35	EF	1	1	CAS	51		U	IM							Sculpin
35	EF	1	1	CAS	43		U	IM							Sculpin
35	EF	1	1	CAS	57		U	IM		2				13 1	Sculpin. Photo did not turn out. No CD image.
35	EF	1	1	CAS	64		U	IM							Sculpin
35	EF	1	1	CAS	61		U	IM							Sculpin
35	EF	1	1	CAS	38		U	IM							Sculpin

FDIS Fish Form

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

Reach # 1.0

ILP # 71303

ILP Map # 93K.071

Project Name Northwood Pulp and Timber Fish Inventory

Project Code 06-BABL-0103-0606-1998

35	EF	1	1	CAS	49	U	IM					Sculpin
35	EF	1	1	CAS	61	U	IM					Sculpin
35	EF	1	1	CAS	55	U	IM					Sculpin
35	EF	1	1	RB	123	U	M	1		12	37	Roll 12, #37 photo did not turn out. No CD image.
35	EF	1	1	RSC	19	U	IM	4		13	3	Photo did not turn out. No CD image.
35	EF	1	1	RSC	23	U	IM					

COMMENTS

Site/Reach Card

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

Reach 1.0
Site # 36

ILP # 71328
ILP Map # 93K.071

Project Name Northwood Pulp and Timber Fish Inventory

Project Code 06-BABL-0103-0606-1998

REACH ATTRIBUTES

Sample Type R

Length (km) .53 Elevation (m): upstream 740 downstream 720 UTM (Zone/East/North/ method)
Gradient (%) 3.8 Order 1 Magnitude 1 BGC Zone SBS
Setting Plain/Large Plateau Bars ☒ None ☐ Side ☐ Diagonal ☐ Mid ☐ Span ☐ Braid
Open water A Wetland ☐ Mass Movement Low or no impact to channel; Active Floodplain ☐
Confinement Unconfined Exposed/Eroded Unknown, Not visible Width (m)
Coupling Decoupled Islands None Visible Beaver Dam(s) ☐
Channel Pattern Sinuous Landuse None/natural LWD jam(s) ☐
Riparian Vegetation Coniferous Valley Flat No valley flat on either bank (C)ontinuous ☐
(D)iscontinuous ☐

SITE

Gazetted Name Local Name Unnamed
Survey Date 1998/09/17 Time 14:53 FIELD UTM(Zone/East/North/Method)
Crew JD/SW Access H MAP UTM (Zone/East/North/Method) GIS
Site Length (m) 100 Method HC Fish Card ☐ Incomplete ☐ NID Map 93K.071 NID # 36

CHANNEL

	Average	Method(s)
Channel Widths (m) 0.3 0.5 0.4 0.5 0.5 0.5 0.7	0.5	T
Wetted Widths (m)	n/a	T
Resid. Pool Depths (m)	n/a	T

No Vis.Ch. ☐	Dewatered ☐	Gradients (%) 2.0 3.0	2.5	AL ,
Intermittent ☒	Tributaries ☐	Bankfull Depth (m) 0.1	0.1	T

Stage ☒ Low
☐ Med.
☐ High

COVER -		Total	Abundant	LWD	None	Dist.	Not Applicable
SWD	LWD	Boulder	Cutbank	Deep Pool	Over Veg	Instream Veg	
Trace	None	None	Sub-Dominant	None	Dominant	Trace	

Crown Closure
1-20%

Instream Vegetation
☐ None ☒ Moss
☐ Algae ☒ Vasc.

LEFT BANK

Shape V - shaped (steep sloping or vertical)
Riparian Veg. Deciduous
Riparian Stage Pole-sapling stage

Texture ☒ Fines ☐ Gravel ☐ Cobble
☐ Boulder ☐ Rock ☐ Man Made

RIGHT BANK

Shape Undercut
Riparian Veg. Deciduous
Riparian Stage Pole-sapling stage

Texture ☒ Fines ☐ Gravel ☐ Cobble
☐ Boulder ☐ Rock ☐ Man Made

WATER

Temperature Method T4 pH Method P2 EMS #
Conductivity Method S2 Turbidity ☐ Turbid ☐ Medium ☐ Light ☐ Clear Method GE

MORPHOLOGY

BED Dominant Fines D95(cm) (only 5% larger) 0.1
MATERIAL Subdominant Not Applicable (same as Dominant) D (cm) (moveable) 0.1

Channel Pattern Sinuous
Coupling Decoupled
Confinement Unconfined
Islands None

Morphology Code
RP

Beaver Dam(s) ☐ O1
Eroding Bank(s) ☐ B2
LWD Jam(s) ☐ D3
Sediment Wedges ☐ S3
Bars
☒ None ☐ Mid
☐ Side ☐ Span
☐ Diag. ☐ Braid

Site/Reach Card

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

Reach 1.0

ILP # 71328

Site # 36

ILP Map # 93K.071

Project Name Northwood Pulp and Timber Fish Inventory

Project Code 06-BABL-0103-0606-1998

FEATURES**HABITAT QUALITY**

FSZs

Side Chan ☐Flood/Beaver ☐Tribes ☐Flood Chan ☐Slough ☐

Name	Comments
Rearing Habitat	Poor rearing habitat
Spawning Habitat	Poor spawning habitat

PHOTO DOCUMENTATION

Film	Compact Disc	Lens / Dir.	Comments
Roll 12 Fr 35 CD 274 Im 12 STD U			
Roll 12 Fr 36 CD 274 Im 13 STD D			

WILDLIFE**COMMENTS**

Form	Section	Comments
SITE	CHANNEL	Intermittent - small widths and overgrown

Site/Reach Card

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

Reach 15.0

ILP # 71303

Site # 37

ILP Map # 93K.071

Project Name Northwood Pulp and Timber Fish Inventory

Project Code 06-BABL-0103-0606-1998

REACH ATTRIBUTES

Sample Type R

Length (km) .43 Elevation (m): upstream 917 downstream 858 UTM (Zone/East/North/ method)
 Gradient (%) 13.7 Order 2 Magnitude 4 BGC Zone SBS
 Setting Plain/Large Plateau Bars ☒ None ☐ Side ☐ Diagonal ☐ Mid ☐ Span ☐ Braid
 Open water A Wetland ☐ Mass Movement Low or no impact to channel; Active Floodplain ☐
 Confinement Unconfined Exposed/Eroded Unknown, Not visible Width (m) ☐
 Coupling Decoupled Islands None Visible Beaver Dam(s) ☐
 Channel Pattern Sinuous Landuse None/natural LWD jam(s) ☐
 Riparian Vegetation Mixed C/D Valley Flat No valley flat on either bank (C)ontinuous ☐
 (D)iscontinuous ☐

SITE

Gazetted Name Local Name Unnamed
 Survey Date 1998/09/18 Time 09:15 FIELD UTM(Zone/East/North/Method)
 Crew SW/JD Access H MAP UTM (Zone/East/North/Method) GIS
 Site Length (m) 200 Method HC Fish Card ☐ Incomplete ☐ NID Map 93K.072 NID # 37

CHANNEL

	Average	Method(s)
Channel Widths (m) 1.3 0.7 0.9 1.1 1.3 0.5	1.0	T
Wetted Widths (m)	n/a	T
Resid. Pool Depths (m)	n/a	T

No Vis.Ch. ☐ Dewatered ☐
 Intermittent ☒ Tributaries ☐
 Gradients (%) 14.0 15.0 14.5 C ,
 Bankfull Depth (m) 0.2 0.2 0.2 0.2 T

Stage ☒ Low
☐ Med.
☐ High

COVER -	Total	Abundant	LWD	Few	Dist.	Clumped
SWD	LWD	Boulder	Cutbank	Deep Pool	Over Veg	Instream Veg
Trace	Trace	Trace	Sub-Dominant	None	Dominant	Trace

Crown Closure
 21-40%

Instream Vegetation

☐ None ☒ Moss
☐ Algae ☒ Vasc.

LEFT BANK

Shape Overhanging bank
 Riparian Veg. Shrubs
 Riparian Stage Shrub/herb stage

Texture ☒ Fines ☐ Gravel ☐ Cobble
☐ Boulder ☐ Rock ☐ Man Made

RIGHT BANK

Shape Overhanging bank
 Riparian Veg. Shrubs
 Riparian Stage Shrub/herb stage

Texture ☒ Fines ☐ Gravel ☐ Cobble
☐ Boulder ☐ Rock ☐ Man Made

WATER

Temperature Method T4 pH Method P2 EMS #
 Conductivity Method S2 Turbidity ☐ Turbid ☐ Medium ☐ Light ☐ Clear Method GE

MORPHOLOGY

BED Dominant Cobble
 MATERIAL Subdominant Boulders
 Channel Pattern Irregular, Wandering
 Coupling Partially Coupled
 Confinement Occasionally Confined
 Islands None

D95(cm) (only 5% larger) 31.5
 D (cm) (moveable) 12

Morphology Code
 CP

Beaver Dam(s) ☐ O1
 Eroding Bank(s) ☐ B2 ☒ None ☐ Mid
 LWD Jam(s) ☐ D3 ☐ Side ☐ Span
 Sediment Wedges ☐ S3 ☐ Diag. ☐ Braid

Site/Reach Card

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

Reach 15.0

ILP # 71303

Site # 37

ILP Map # 93K.071

Project Name Northwood Pulp and Timber Fish Inventory

Project Code 06-BABL-0103-0606-1998

FEATURES**HABITAT QUALITY**

FSZs

Side Chan ☐Flood/Beaver ☐Tribes ☐Flood Chan ☐Slough ☐

Name

Comments

Other

Very poor habitat - channel dry only seasonal habitat in lower 50 metres

PHOTO DOCUMENTATION

Film	Compact Disc	Lens / Dir.	Comments
Roll 13	Fr 6 CD 274	Im 14 STD U	Upstream cobble and boulder
Roll 13	Fr 7 CD 274	Im 15 STD D	Downstream overstream vegetation

WILDLIFE

Group

Observations

BIR

Grouse

COMMENTS

Form

Section

Comments

SITE

CHANNEL

S6 stream - fish cannot access this reach from the lake - gradient is too high and stream is dry. Lower 50 metres of reach is accessible to fish.

Site/Reach Card

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

Reach 17.0

ILP # 71303

Site # 38

ILP Map # 93K.071

Project Name Northwood Pulp and Timber Fish Inventory

Project Code 06-BABL-0103-0606-1998

REACH ATTRIBUTES

Sample Type R

Length (km) .67 Elevation (m): upstream 1080 downstream 978 UTM (Zone/East/North/ method)
 Gradient (%) 15.2 Order 2 Magnitude 2 BGC Zone SBS
 Setting Valley Wall Bars ☒ None ☐ Side ☐ Diagonal ☐ Mid ☐ Span ☐ Braid
 Open water A Wetland ☐ Mass Movement Low or no impact to channel; Active Floodplain ☐
 Confinement Occasionally Confined Exposed/Eroded Unknown, Not visible Width (m) ☐
 Coupling Partially Coupled Islands None Visible Beaver Dam(s) ☐
 Channel Pattern Sinuous Landuse None/natural LWD jam(s) ☐
 Riparian Vegetation Coniferous Valley Flat No valley flat on either bank (C)ontinuous ☐
 (D)iscontinuous ☐

SITE

Gazetted Name Local Name Unnamed
 Survey Date 1998/09/18 Time 11:25 FIELD UTM(Zone/East/North/Method)
 Crew JD/SW Access H MAP UTM (Zone/East/North/Method) GIS
 Site Length (m) 400 Method HC Fish Card ☐ Incomplete ☐ NID Map 93K.072 NID # 38

CHANNEL

	Average	Method(s)
Channel Widths (m) 0.6 0.8 0.7 0.8 0.5 0.9	0.7	T
Wetted Widths (m)	n/a	T
Resid. Pool Depths (m)	n/a	T

No Vis.Ch. ☐ Dewatered ☐
 Intermittent ☒ Tributaries ☐
 Gradients (%) 20.0 22.0 21.0 C,
 Bankfull Depth (m) 0.2 0.2 0.2 0.2 T

Stage ☒ Low
☐ Med.
☐ High

COVER -		Total	Abundant	LWD Few	Dist.	Evenly Distributed
SWD	LWD	Boulder	Cutbank	Deep Pool	Over Veg	Instream Veg
Trace	Trace	Sub-Dominant	Trace	None	Dominant	Sub-Dominant

Crown Closure
 21-40%

Instream Vegetation

☐ None ☒ Moss
☐ Algae ☒ Vasc.

LEFT BANK

Shape Sloping (gradual or shallow sloping)
 Riparian Veg. Shrubs
 Riparian Stage Shrub/herb stage

Texture ☒ Fines ☐ Gravel ☐ Cobble
☐ Boulder ☐ Rock ☐ Man Made

RIGHT BANK

Shape Sloping (gradual or shallow sloping)
 Riparian Veg. Shrubs
 Riparian Stage Shrub/herb stage

Texture ☒ Fines ☐ Gravel ☐ Cobble
☐ Boulder ☐ Rock ☐ Man Made

WATER

Temperature Method T4 pH Method P2 EMS #
 Conductivity Method S2 Turbidity ☐ Turbid ☐ Medium ☐ Light ☐ Clear Method GE

MORPHOLOGY

BED Dominant Cobble
 MATERIAL Subdominant Boulders

D95(cm) (only 5%larger) 35
 D (cm) (moveable) 10

Channel Pattern Irregular, Wandering
 Coupling Partially Coupled
 Confinement Occasionally Confined
 Islands None

Morphology Code
 CP

Beaver Dam(s) ☐ O1
 Eroding Bank(s) ☐ B2 ☒ None ☐ Mid
 LWD Jam(s) ☐ D3 ☐ Side ☐ Span
 Sediment Wedges ☐ S3 ☐ Diag. ☐ Braid

Site/Reach Card

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

Reach 17.0

ILP # 71303

Site # 38

ILP Map # 93K.071

Project Name Northwood Pulp and Timber Fish Inventory

Project Code 06-BABL-0103-0606-1998

FEATURES**HABITAT QUALITY**

FSZs

Side Chan ☐Flood/Beaver ☐Tribes ☐Flood Chan ☐Slough ☐

Name

Comments

Other

No fish habitat - subsurface sections, dry and high gradient.

PHOTO DOCUMENTATION

Film

Compact Disc

Lens / Dir.

Comments

Roll 13 Fr 8 CD 274 Im 16 STD U

Roll 13 Fr 9 CD 274 Im 17 STD D

WILDLIFE**COMMENTS**

Form

Section

Comments

SITE

CHANNEL

S6 stream - no water, no access, no habitat.

Site/Reach Card

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

Reach 1.0
Site # 39

ILP # 72316
ILP Map # 93K.072

Project Name Northwood Pulp and Timber Fish Inventory

Project Code 06-BABL-0103-0606-1998

REACH ATTRIBUTES

Sample Type R

Length (km) .12 Elevation (m): upstream 817 downstream 815 UTM (Zone/East/North/ method)
Gradient (%) 1.7 Order 3 Magnitude 7 BGC Zone SBS
Setting Plain/Large Plateau Bars ☒ None ☐ Side ☐ Diagonal ☐ Mid ☐ Span ☐ Braid
Open water A Wetland ☒ Mass Movement Low or no impact to channel; Active Floodplain ☐
Confinement Occasionally Confined Exposed/Eroded Unknown, Not visible Width (m)
Coupling Decoupled Islands None Visible Beaver Dam(s) ☐
Channel Pattern Sinuous Landuse None/natural LWD jam(s) ☐
Riparian Vegetation Coniferous Valley Flat No valley flat on either bank (C)ontinuous ☐
(D)iscontinuous ☐

SITE

Gazetted Name Local Name Unnamed
Survey Date 1998/09/18 Time 12:12 FIELD UTM(Zone/East/North/Method)
Crew JD/SW Access H MAP UTM (Zone/East/North/Method) GIS
Site Length (m) 200 Method HC Fish Card ☒ Incomplete ☐ NID Map 93K.072 NID # 39

CHANNEL

							Average	Method(s)
Channel Widths (m)	2.0	2.5	2.1	2.8	2.1	2.2	2.3	T
Wetted Widths (m)	1.6	1.6	1.8	2.3	2.2	2.1	1.9	T
Resid. Pool Depths (m)	0.12	0.29	0.30	0.17	0.18	0.25	0.22	T

No Vis.Ch. ☐	Dewatered ☐	Gradients (%)	3.0	3.0	3.0	C ,
Intermittent ☐	Tributaries ☐	Bankfull Depth (m)	0.4	0.4	0.4	T

Stage ☐ Low
☒ Med.
☐ High

COVER -		Total	Moderate	LWD Abundant	Dist.	Evenly Distributed
SWD	LWD	Boulder	Cutbank	Deep Pool	Over Veg	Instream Veg
Trace	Dominant	None	Sub-Dominant	Sub-Dominant	Trace	Trace

Crown Closure
1-20%

Instream Vegetation

☐ None ☐ Moss
☐ Algae ☒ Vasc.

LEFT BANK

Shape Overhanging bank
Riparian Veg. Shrubs
Riparian Stage Shrub/herb stage

Texture ☒ Fines ☐ Gravel ☐ Cobble
☐ Boulder ☐ Rock ☐ Man Made

RIGHT BANK

Shape Overhanging bank
Riparian Veg. Shrubs
Riparian Stage Shrub/herb stage

Texture ☒ Fines ☐ Gravel ☐ Cobble
☐ Boulder ☐ Rock ☐ Man Made

WATER

Temperature 8.3 Method T4 pH 7.4 Method P2 EMS #
Conductivity 70 Method S2 Turbidity ☐ Turbid ☐ Medium ☐ Light ☒ Clear Method GE

MORPHOLOGY

BED Dominant Fines D95(cm) (only 5%larger) 1
MATERIAL Subdominant Not Applicable (same as Dominant) D (cm) (moveable) 1
Channel Pattern Irregular, Wandering
Coupling Decoupled
Confinement Unconfined
Islands None

Morphology Code
RP

Beaver Dam(s) ☒ O1
Eroding Bank(s) ☐ B2 ☒ None ☐ Mid
LWD Jam(s) ☐ D3 ☐ Side ☐ Span
Sediment Wedges ☐ S3 ☐ Diag. ☐ Braid

Site/Reach Card

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

Reach 1.0
Site # 39ILP # 72316
ILP Map # 93K.072

Project Name Northwood Pulp and Timber Fish Inventory

Project Code 06-BABL-0103-0606-1998

FEATURES

Type BD Height 1.0 Method GE Length 5 Method GE

Comments Beaver dam

Photograph Roll 13 Frame 12 UTM (Zone/East/North/ Method)

HABITAT QUALITY

FSZs

Side Chan ☐Flood/Beaver ☐Tribes ☐Flood Chan ☐Slough ☐

Name

Comments

Rearing Habitat

Good rearing habitat - lots of cover and good pools

Spawning Habitat

Poor spawning habitat - no gravel present

PHOTO DOCUMENTATION

Film	Compact Disc	Lens / Dir.	Comments
Roll 13 Fr 10 CD 274 Im 18 STD U	Long pools with large woody debris		
Roll 13 Fr 11 CD 274 Im 19 STD D	Spanning large woody debris		
Roll 13 Fr 12 CD 274 Im 20 STD NS	Beaver dam		

WILDLIFE

Group Observations

MAM Moose

COMMENTS

Form	Section	Comments
SITE	CHANNEL	

FDIS Fish Form

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

Reach # 1.0

ILP # 72316

ILP Map # 93K.072

Project Name Northwood Pulp and Timber Fish Inventory

Project Code 06-BABL-0103-0606-1998

Lake / Stream	S	SITE / METHOD				Waterbody ID		
Permit	34770-20	Date:	1998/09/18	To:	1998/09/18	Crew:	JD/SW	Resample ☐

Site	NID MAP	NID	UTM:Zone/East/North/ Mthd	MTD/NO	Temp	Cond	Turbid	Comment
39	93K.072	39		EF 1	8.0	70	C	

GEAR SETTINGS							
Site	MTD/NO	H/P	Date In	Time In	Date Out	Time Out	Comment
39	EF 1	1	1998/09/18	12:13	1998/09/18	13:02	

NET/TRAP SPECIFICATIONS

ELECTROFISHER SPECIFICATIONS											
Site	MTD/NO	H/P	Encl	Sec.	Length	Width	Volts	Hz	Pulse	Make	Model
39	EF 1	1	O	406	100.0	2.0	400	60	5	SR	12 B POW

FISH SUMMARY

Site	MTD/NO	H/P	Species	Stage	Age	Total #	Lgth (Min/Max)	Activity	Comment
39	EF	1 1	CAS	A		5	44 53	R	Unidentified Sculpin

INDIVIDUAL FISH DATA

Site	MTD/NO	H/P	Species	Length	Weight	Sex	Mat	Age	Vch#	Genetic	Photograph	Comment
				(mm)	(g)			Str / Smpl# / Age		Str/ Smpl#	Roll Fr.	
39	EF	1	1	CAS	44	U	U					Unidentified sculpin: FDIS won't accept CC as code
39	EF	1	1	CAS	48	U	U					Unidentified sculpin: FDIS won't accept CC as code
39	EF	1	1	CAS	52	U	U				13 13	Unidentified sculpin: FDIS won't accept CC as code
39	EF	1	1	CAS	53	U	U					Unidentified sculpin: FDIS won't accept CC as code
39	EF	1	1	CAS	47	U	U					Unidentified sculpin: FDIS won't accept CC as code

COMMENTS

Site/Reach Card

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

Reach 1.0
Site # 40

ILP # 72300
ILP Map # 93K.072

Project Name Northwood Pulp and Timber Fish Inventory

Project Code 06-BABL-0103-0606-1998

REACH ATTRIBUTES				Sample Type
Length (km)	.45	Elevation (m): upstream	842	downstream 820 UTM (Zone/East/North/ method)
Gradient (%)	4.9	Order 1	Magnitude 1	BGC Zone SBS
Setting	Plain/Large Plateau			
Open water	A	Wetland	☐	
Confinement	Occasionally Confined		Mass Movement	Low or no impact to channel;
Coupling	Decoupled		Exposed/Eroded	Unknown, Not visible
Channel Pattern	Sinuous		Islands	None Visible
Riparian Vegetation	Coniferous		Landuse	None/natural
			Valley Flat	No valley flat on either bank
				(C)ontinuous ☐
				(D)iscontinuous ☐

SITE			
Gazetted Name	Local Name Unnamed		
Survey Date 1998/09/18	Time 13:00	FIELD UTM(Zone/East/North/Method)	
Crew SW/JD	Access H	MAP UTM (Zone/East/North/Method)	
Site Length (m) 100	Method HC	Fish Card ☐	Incomplete ☐
		NID Map 93K.072	NID # 40

CHANNEL	
No Visible Channel ☒	
Gradient(s) (%)	
Vegetation	
Veg. Stage	

FEATURE	
HABITAT QUALITY	FSZs ☐ Side Chan ☐ Flood/Beaver ☐
	Tribs. ☐ Flood Chan ☐ Slough ☐
Name	Comments
Other	No fish habitat

PHOTO DOCUMENTATION			
Film	Compact Disc	Lens / Dir.	Comments
Roll 13	Fr 14 CD 274	Im 22 STD U	No visible channel - vegetated gully
Roll 13	Fr 15 CD 274	Im 23 STD D	No visible channel - vegetated gully

COMMENT	
Form	Section
SITE	CHANNEL
Comments	Not a stream

Site/Reach Card

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

Reach 5.0
Site # 41

ILP # 71325
ILP Map # 93K.071

Project Name Northwood Pulp and Timber Fish Inventory

Project Code 06-BABL-0103-0606-1998

REACH ATTRIBUTES

Sample Type R

Length (km) .81 Elevation (m): upstream 1210 downstream 1100 UTM (Zone/East/North/ method)
Gradient (%) 13.6 Order 2 Magnitude 5 BGC Zone SBS
Setting Plain/Large Plateau Bars ☒ None ☐ Side ☐ Diagonal ☐ Mid ☐ Span ☐ Braid
Open water A Wetland ☐ Mass Movement Low or no impact to channel; Active Floodplain ☐
Confinement Occasionally Confined Exposed/Eroded Unknown, Not visible Width (m)
Coupling Partially Coupled Islands None Visible Beaver Dam(s) ☐
Channel Pattern Sinuous Landuse None/natural LWD jam(s) ☐
Riparian Vegetation Mixed C/D Valley Flat No valley flat on either bank (C)ontinuous ☐
(D)iscontinuous ☐

SITE

Gazetted Name Local Name Unnamed
Survey Date 1998/09/18 Time 14:09 FIELD UTM(Zone/East/North/Method)
Crew SW/JD Access H MAP UTM (Zone/East/North/Method) GIS
Site Length (m) 150 Method HC Fish Card ☐ Incomplete ☐ NID Map 93K.072 NID # 41

CHANNEL

	Average	Method(s)
Channel Widths (m) 1.3 1.3 1.3 1.4 1.6 1.3	1.4	T
Wetted Widths (m)	n/a	T
Resid. Pool Depths (m)	n/a	T

No Vis.Ch. ☐	Dewatered ☐	Gradients (%) 33.0 35.0	34.0	C ,
Intermittent ☒	Tributaries ☐	Bankfull Depth (m) 0.2 0.3 0.2	0.2	T

Stage ☒ Low
☐ Med.
☐ High

COVER -		Total	Abundant	LWD Few	Dist.	Evenly Distributed
SWD	LWD	Boulder	Cutbank	Deep Pool	Over Veg	Instream Veg
Trace	Trace	Dominant	Sub-Dominant	None	Sub-Dominant	Trace

Crown Closure
21-40%

Instream Vegetation

☐ None ☒ Moss
☐ Algae ☒ Vasc.

LEFT BANK

Shape Sloping (gradual or shallow sloping)
Riparian Veg. Deciduous
Riparian Stage Pole-sapling stage

Texture ☐ Fines ☐ Gravel ☒ Cobble
☐ Boulder ☐ Rock ☐ Man Made

RIGHT BANK

Shape Overhanging bank
Riparian Veg. Deciduous
Riparian Stage Pole-sapling stage

Texture ☐ Fines ☐ Gravel ☒ Cobble
☐ Boulder ☐ Rock ☐ Man Made

WATER

Temperature Method T4 pH Method P2 EMS #
Conductivity Method S2 Turbidity ☐ Turbid ☐ Medium ☐ Light ☐ Clear Method GE

MORPHOLOGY

BED Dominant Boulders D95(cm) (only 5%larger) 45
MATERIAL Subdominant Cobble D (cm) (moveable) 25

Channel Pattern Irregular, Wandering
Coupling Coupled
Confinement Confined
Islands None

Morphology Code
CP

Beaver Dam(s) ☐ O1
Eroding Bank(s) ☐ B2 ☒ None ☐ Mid
LWD Jam(s) ☐ D3 ☐ Side ☐ Span
Sediment Wedges ☐ S3 ☐ Diag. ☐ Braid

Site/Reach Card

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

Reach 5.0

ILP # 71325

Site # 41

ILP Map # 93K.071

Project Name Northwood Pulp and Timber Fish Inventory

Project Code 06-BABL-0103-0606-1998

FEATURES**HABITAT QUALITY**

FSZs

Side Chan ☐Flood/Beaver ☐Tribes ☐Flood Chan ☐Slough ☐

Name	Comments
Rearing Habitat	Poor rearing habitat - no water and too high gradient
Spawning Habitat	Poor spawning habitat - no water and too high gradient

PHOTO DOCUMENTATION

Film	Compact Disc	Lens / Dir.	Comments
Roll 13 Fr 16 CD 274 Im 24 STD U	High gradient - dry channel		
Roll 13 Fr 17 CD 274 Im 25 STD D	High gradient - dry channel		

WILDLIFE**COMMENTS**

Form	Section	Comments
SITE	CHANNEL	No fish habitat or fish - S6 stream

Site/Reach Card

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

Reach 1.0
Site # 42

ILP # 72315
ILP Map # 93K.072

Project Name Northwood Pulp and Timber Fish Inventory

Project Code 06-BABL-0103-0606-1998

REACH ATTRIBUTES

Sample Type R

Length (km) .79 Elevation (m): upstream 1320 downstream 1210 UTM (Zone/East/North/ method)
Gradient (%) 13.9 Order 1 Magnitude 1 BGC Zone SBS
Setting Plain/Large Plateau Bars ☒ None ☐ Side ☐ Diagonal ☐ Mid ☐ Span ☐ Braid
Open water A Wetland ☐ Mass Movement Low or no impact to channel; Active Floodplain ☐
Confinement Frequently Confined Exposed/Eroded Unknown, Not visible Width (m)
Coupling Partially Coupled Islands None Visible Beaver Dam(s) ☐
Channel Pattern Sinuous Landuse None/natural LWD Jam(s) ☐
Riparian Vegetation Mixed C/D Valley Flat No valley flat on either bank (C)ontinuous ☐
(D)iscontinuous ☐

SITE

Gazetted Name Local Name Unnamed
Survey Date 1998/09/18 Time 14:32 FIELD UTM(Zone/East/North/Method)
Crew SW/JD Access H MAP UTM (Zone/East/North/Method) GIS
Site Length (m) 100 Method HC Fish Card ☐ Incomplete ☐ NID Map 93K.072 NID # 42

CHANNEL

	Average	Method(s)
Channel Widths (m) 0.5 1.0 1.2 0.9 0.6 1.1	0.9	T
Wetted Widths (m)	n/a	T
Resid. Pool Depths (m)	n/a	T

No Vis.Ch. ☐	Dewatered ☐	Gradients (%) 28.0 33.0	30.5	C ,
Intermittent ☒	Tributaries ☐	Bankfull Depth (m) 0.2 0.2 0.2	0.2	T

Stage ☒ Low	COVER -		Total	Abundant	LWD Few	Dist.	Evenly Distributed
☐ Med.	SWD	LWD	Boulder	Cutbank	Deep Pool	Over Veg	Instream Veg
☐ High	Trace	Trace	Dominant	Sub-Dominant	None	Sub-Dominant	Trace

Crown Closure
21-40%

LEFT BANK

Shape Overhanging bank
Riparian Veg. Shrubs
Riparian Stage Shrub/herb stage

Instream Vegetation

☒ None ☐ Moss
☐ Algae ☐ Vasc.

Texture ☒ Fines ☐ Gravel ☒ Cobble
☐ Boulder ☐ Rock ☐ Man Made

RIGHT BANK

Shape Overhanging bank
Riparian Veg. Shrubs
Riparian Stage Shrub/herb stage

Texture ☒ Fines ☐ Gravel ☒ Cobble
☐ Boulder ☐ Rock ☐ Man Made

WATER

Temperature Method T4 pH Method P2 EMS #
Conductivity Method S2 Turbidity ☐ Turbid ☐ Medium ☐ Light ☐ Clear Method GE

MORPHOLOGY

BED Dominant Boulders D95(cm) (only 5%larger) 50
MATERIAL Subdominant Cobble D (cm) (moveable) 20

Channel Pattern Irregular, Wandering
Coupling Coupled
Confinement Confined
Islands None

Morphology Code
CP

Beaver Dam(s) ☐ O1
Eroding Bank(s) ☐ B2
LWD Jam(s) ☐ D3
Sediment Wedges ☐ S3
Bars
☒ None ☐ Mid
☐ Side ☐ Span
☐ Diag. ☐ Braid

Site/Reach Card

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

Reach 1.0

ILP # 72315

Site # 42

ILP Map # 93K.072

Project Name Northwood Pulp and Timber Fish Inventory

Project Code 06-BABL-0103-0606-1998

FEATURES**HABITAT QUALITY**

FSZs

Side Chan ☐Flood/Beaver ☐Tribes ☐Flood Chan ☐Slough ☐

Name

Comments

Other

No fish habitat - no water and high gradient

PHOTO DOCUMENTATION

Film	Compact Disc	Lens / Dir.	Comments
Roll 13	Fr 18 CD 274	Im 26 STD U	Upper portion - intermittent channel
Roll 13	Fr 19 CD 274	Im 27 STD U	High gradient
Roll 13	Fr 20 CD 274	Im 28 STD D	High gradient

WILDLIFE**COMMENTS**

Form

Section

Comments

SITE

CHANNEL

S6 stream - No fish

Site/Reach Card

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

Reach 6.0
Site # 43

ILP # 71318
ILP Map # 93K.071

Project Name Northwood Pulp and Timber Fish Inventory

Project Code 06-BABL-0103-0606-1998

REACH ATTRIBUTES				Sample Type
Length (km)	.17	Elevation (m): upstream	1358	downstream 1340 UTM (Zone/East/North/ method)
Gradient (%)	1.0	Order	1	Magnitude 1 BGC Zone SBS
Setting	Plain/Large Plateau			
Open water	A	Wetland	☒	Mass Movement Low or no impact to channel; Active Floodplain ☐
Confinement	Occasionally Confined		Exposed/Eroded	Unknown, Not visible Width (m)
Coupling	Decoupled		Islands	None Visible Beaver Dam(s) ☐
Channel Pattern	Irregular, Wandering		Landuse	None/natural LWD jam(s) ☐
Riparian Vegetation	Grass		Valley Flat	Valley flat on both; also if valley flat present (C)ontinuous ☒ (D)iscontinuous

SITE			
Gazetted Name	Local Name Unnamed		
Survey Date	1998/09/18	Time	15:22
Crew	SW/JD	Access	H
Site Length (m)	100	Method	HC
Fish Card	☐	Incomplete	☐
NID Map	93K.072	NID #	43

CHANNEL	
No Visible Channel	☒
Gradient(s) (%)	
Vegetation	
Veg. Stage	

FEATURE			
HABITAT QUALITY		FSZs	Side Chan ☐
		Tribs. ☐	Flood/Beaver ☐
		Flood Chan ☐	Slough ☐

PHOTO DOCUMENTATION					
Film	Compact Disc		Lens / Dir.		Comments
Roll 13	Fr	21	CD 274	Im 29	STD U No visible channel - dry swamp
Roll 13	Fr	22	CD 274	Im 30	STD D

COMMENT		
Form	Section	Comments
SITE	CHANNEL	Wetland has no channel or water

Site/Reach Card

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

Reach 1.0
Site # 44

ILP # 1375
ILP Map # 93K.081

Project Name Northwood Pulp and Timber Fish Inventory

Project Code 06-BABL-0103-0606-1998

REACH ATTRIBUTES				Sample Type	B
Length (km)	.66	Elevation (m): upstream	1320	downstream	1218
Gradient (%)	15.5	Order	1	Magnitude	1
Setting	Not Specified		Bars ☒ None ☐ Side ☐ Diagonal ☐ Mid ☐ Span ☐ Braid		
Open water	A	Wetland	☐		Mass Movement
Confinement	Occasionally Confined		Exposed/Eroded		Not Specified
Coupling	Partially Coupled		Islands		NONE
Channel Pattern	Sinuous		Landuse		Not Specified
Riparian Vegetation	Not Specified		Valley Flat		Not Specified
					Active Floodplain ☐
					Width (m) ☐
					Beaver Dam(s) ☐
					LWD jam(s) ☐
					(C)ontinuous ☐
					(D)iscontinuous ☐

SITE			
Gazetted Name	Local Name Unnamed		
Survey Date	1998/09/18	Time	15:25
Crew	SW/JD	Access	H
Site Length (m)	300	Method	HC
Fish Card	☐	Incomplete	☐
NID Map	93K.081	NID #	44

CHANNEL							Average	Method(s)
Channel Widths (m)	0.4	0.8	0.9	0.9	0.7	0.8	0.7	T
Wetted Widths (m)							n/a	T
Resid. Pool Depths (m)							n/a	T
No Vis.Ch.	☐	Dewatered	☐	Gradients (%)			15.0	18.0
Intermittent	☒	Tributaries	☐	Bankfull Depth (m)			0.2	0.3
							16.5	C ,
							0.3	T

Stage		COVER -		Total	Abundant	LWD	Few	Dist.	Evenly Distributed
		SWD	LWD	Boulder	Cutbank	Deep Pool	Over Veg	Instream Veg	
☒ Low		Trace	Sub-Dominant	Dominant	Sub-Dominant	None	Trace	Trace	
☐ Med.									
☐ High									
Crown Closure	LEFT BANK								
41-70%	Shape Overhanging bank								
	Riparian Veg. Shrubs								
	Riparian Stage Shrub/herb stage								
Instream Vegetation	RIGHT BANK								
☐ None ☒ Moss	Shape Sloping (gradual or shallow sloping)								
☐ Algae ☐ Vasc.	Riparian Veg. Shrubs								
	Riparian Stage Shrub/herb stage								
	Texture ☒ Fines ☐ Gravel ☒ Cobble								
	☐ Boulder ☐ Rock ☐ Man Made								

WATER			
Temperature	Method	pH	Method
Conductivity	Method	Turbidity	☐ Turbid ☐ Medium ☐ Light ☐ Clear
		EMS #	
		Method GE	

MORPHOLOGY			
BED	Dominant	Boulders	D95(cm) (only 5% larger)
MATERIAL	Subdominant	Cobble	D (cm) (moveable)
Channel Pattern	Irregular, Wandering		
Coupling	Partially Coupled		
Confinement	Frequently Confined		
Islands	None		
		Morphology Code	CP
		Beaver Dam(s)	☐ O1
		Eroding Bank(s)	☐ B2
		LWD Jam(s)	☐ D3
		Sediment Wedges	☐ S3
		Bars	☒ None ☐ Mid
			☐ Side ☐ Span
			☐ Diag. ☐ Braid

Site/Reach Card

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

Reach 1.0
Site # 44ILP # 1375
ILP Map # 93K.081

Project Name Northwood Pulp and Timber Fish Inventory

Project Code 06-BABL-0103-0606-1998

FEATURES**HABITAT QUALITY**FSZs Side Chan ☐ Flood/Beaver ☐
Tribes ☐ Flood Chan ☐ Slough ☐

Name	Comments
Spawning Habitat	Poor spawning habitat - no water and limited gravel
Rearing Habitat	Good rearing habitat when water present

PHOTO DOCUMENTATION

Film	Compact Disc	Lens / Dir.	Comments
Roll 13 Fr 23 CD 274 Im 31 STD U			
Roll 13 Fr 24 CD 274 Im 32 STD D			

WILDLIFE**COMMENTS**

Form	Section	Comments
SITE	CHANNEL	Suggest resample of lake upstream - map does not show a connection to lake, but it exists - could be fish stream if lake contains fish.

Site/Reach Card

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

Reach 5.0
Site # 45

ILP # 1371
ILP Map # 93K.081

Project Name Northwood Pulp and Timber Fish Inventory

Project Code 06-BABL-0103-0606-1998

REACH ATTRIBUTES						Sample Type	R
Length (km)	.37	Elevation (m): upstream	1340	downstream	1316	UTM (Zone/East/North/ method)	
Gradient (%)	6.5	Order	1	Magnitude	1	BGC Zone	SBS
Setting	Valley Wall		Bars		☒ None ☐ Side ☐ Diagonal ☐ Mid ☐ Span ☐ Braid		
Open water	A	Wetland	☐		Mass Movement	Not Specified	
Confinement	Unconfined		Exposed/Eroded		Unknown, Not visible		Active Floodplain
Coupling	Decoupled		Islands		Not Specified		Width (m)
Channel Pattern	Regular Meanders		Landuse		None/natural		Beaver Dam(s)
Riparian Vegetation	Mixed C/D		Valley Flat		Not Specified		LWD jam(s)
							(C)ontinuous
							(D)iscontinuous

SITE			
Gazetted Name	Local Name Unnamed		
Survey Date	1998/09/19	Time	09:30
Crew	JD/SW	Access	H
Site Length (m)	100	Method	HC
Fish Card	☐ Incomplete	NID Map	93K.081
NID #	45		

CHANNEL								Average	Method(s)
Channel Widths (m)	1.2	0.7	0.5	0.6	0.5	0.4	0.7	T	
Wetted Widths (m)							n/a	T	
Resid. Pool Depths (m)							n/a	T	
No Vis.Ch.	☐	Dewatered	☐	Gradients (%)			4.0	5.0	
Intermittent	☒	Tributaries	☐	Bankfull Depth (m)			0.2	0.1	
							4.5	AL ,	
							0.1	T	

Stage	☒ Low	COVER -		Total	Moderate	LWD	None	Dist.	Not Applicable
	☐ Med.	SWD	LWD	Boulder	Cutbank	Deep Pool	Over Veg	Instream Veg	
	☐ High	Sub-Dominant	None	None	Trace	None	Dominant	Sub-Dominant	
Crown Closure	21-40%	LEFT BANK			RIGHT BANK				
Instream Vegetation		Shape V - shaped (steep sloping or vertical)			Shape Sloping (gradual or shallow sloping)				
☐ None	☒ Moss	Riparian Veg. Coniferous			Riparian Veg. Coniferous				
☐ Algae	☒ Vasc.	Riparian Stage Mature forest			Riparian Stage Mature forest				
		Texture	☒ Fines	☐ Gravel	☐ Cobble	Texture			
			☐ Boulder	☐ Rock	☐ Man Made	☒ Fines ☐ Gravel ☐ Cobble			
						☐ Boulder ☐ Rock ☐ Man Made			

WATER			
Temperature	Method T4	pH	Method P2
Conductivity	Method S2	Turbidity	☐ Turbid ☐ Medium ☐ Light ☐ Clear
			EMS #
			Method GE

MORPHOLOGY			
BED	Dominant Fines	D95(cm) (only 5%larger)	12
MATERIAL	Subdominant Cobble	D (cm) (moveable)	2
Channel Pattern	Sinuuous	Beaver Dam(s)	☐ O1
Coupling	Decoupled	Eroding Bank(s)	☐ B2
Confinement	Occasionally Confined	LWD Jam(s)	☐ D3
Islands	None	Sediment Wedges	☐ S3
		Bars ☒ None ☐ Mid ☐ Side ☐ Span ☐ Diag. ☐ Braid	
		Morphology Code RP	

Site/Reach Card

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

Reach 5.0

ILP # 1371

Site # 45

ILP Map # 93K.081

Project Name Northwood Pulp and Timber Fish Inventory

Project Code 06-BABL-0103-0606-1998

FEATURES**HABITAT QUALITY**

FSZs

Side Chan ☐Flood/Beaver ☐Tribes ☐Flood Chan ☐Slough ☐

Name	Comments
Rearing Habitat	Poor rearing habitat - possible during winter or spring flows - if access not denied by downstream gradient in lower reaches. Map show likely gradient barrier in reach 1.
Spawning Habitat	Poor spawning habitat - no appropriate substrates.

PHOTO DOCUMENTATION

Film	Compact Disc	Lens / Dir.	Comments
Roll 13 Fr 25 CD 274 Im 33 STD U	Shows dry/intermittent nature		
Roll 13 Fr 26 CD 274 Im 34 STD D			

WILDLIFE**COMMENTS**

Form	Section	Comments
SITE	CHANNEL	Ephemeral stream - several sections heavily mossed indicating longer periods with no or low water flows - poor fish habitat.

Site/Reach Card

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

Reach 1.0
Site # 49

ILP # 1369
ILP Map # 93K.081

Project Name Northwood Pulp and Timber Fish Inventory

Project Code 06-BABL-0103-0606-1998

REACH ATTRIBUTES

Sample Type R

Length (km) 1.20 Elevation (m): upstream 1020 downstream 820 UTM (Zone/East/North/ method)
Gradient (%) 16.7 Order 1 Magnitude 1 BGC Zone SBS
Setting Valley Wall Bars ☒ None ☐ Side ☐ Diagonal ☐ Mid ☐ Span ☐ Braid
Open water A Wetland ☐ Mass Movement Medium impact; some debris Active Floodplain ☐
Confinement Confined Exposed/Eroded Not Specified Width (m)
Coupling Coupled Islands Not Specified Beaver Dam(s) ☐
Channel Pattern Sinuous Landuse None/natural LWD jam(s) ☐
Riparian Vegetation Not Specified Valley Flat Not Specified (C)ontinuous ☐
(D)iscontinuous ☐

SITE

Gazetted Name Local Name Unnamed
Survey Date 1998/09/19 Time 14:47 FIELD UTM(Zone/East/North/Method)
Crew JD/SW Access H MAP UTM (Zone/East/North/Method) GIS
Site Length (m) 150 Method HC Fish Card ☐ Incomplete ☐ NID Map 93K.081 NID # 49

CHANNEL

							Average	Method(s)
Channel Widths (m)	1.3	1.5	1.3	1.4	1.5	1.4	1.4	T
Wetted Widths (m)	0.8					0.8	0.8	T
Resid. Pool Depths (m)	0.03					0.03	0.03	T

No Vis.Ch. ☐ Dewatered ☐ Gradients (%) 14.0 17.0 15.5 AL ,
Intermittent ☒ Tributaries ☐ Bankfull Depth (m) 0.2 0.1 0.2 0.2 T

Stage ☒ Low
☐ Med.
☐ High

COVER -		Total	Moderate	LWD	Few	Dist.	Evenly Distributed
SWD	LWD	Boulder	Cutbank	Deep Pool	Over Veg	Instream Veg	
Trace	Sub-Dominant	Dominant	Sub-Dominant	Sub-Dominant	Sub-Dominant	None	

Crown Closure
41-70%

Instream Vegetation
☐ None ☒ Moss
☐ Algae ☐ Vasc.

LEFT BANK
Shape Undercut
Riparian Veg. Mixed C/D
Riparian Stage Mature forest
Texture ☒ Fines ☐ Gravel ☐ Cobble
☐ Boulder ☐ Rock ☐ Man Made

RIGHT BANK
Shape Undercut
Riparian Veg. Mixed C/D
Riparian Stage Mature forest
Texture ☒ Fines ☐ Gravel ☐ Cobble
☐ Boulder ☐ Rock ☐ Man Made

WATER

Temperature 7.9 Method T4 pH 7.2 Method P2 EMS #
Conductivity 206 Method S2 Turbidity ☐ Turbid ☐ Medium ☐ Light ☒ Clear Method GE

MORPHOLOGY

BED Dominant Cobble D95(cm) (only 5%larger) 59
MATERIAL Subdominant Boulders D (cm) (moveable) 8
Channel Pattern Sinuous Beaver Dam(s) ☐ O1
Coupling Partially Coupled Eroding Bank(s) ☐ B2 ☒ None ☐ Mid
Confinement Frequently Confined LWD Jam(s) ☐ D3 ☐ Side ☐ Span
Islands None Sediment Wedges ☐ S3 ☐ Diag. ☐ Braid

Morphology Code
RP

Site/Reach Card

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

Reach 1.0

ILP # 1369

Site # 49

ILP Map # 93K.081

Project Name Northwood Pulp and Timber Fish Inventory

Project Code 06-BABL-0103-0606-1998

FEATURES**HABITAT QUALITY**

FSZs

Side Chan ☐Flood/Beaver ☐Tribes ☐Flood Chan ☐Slough ☐**Name****Comments**

Rearing Habitat

Rearing habitat fair to poor due to no to low flows in early fall

Spawning Habitat

Fair to poor spawning habitat - little substrate

PHOTO DOCUMENTATION**Film****Compact Disc****Lens / Dir.****Comments**

Roll 13 Fr 34 CD 274 Im 35 STD U

Roll 13 Fr 35 CD 274 Im 36 STD D

WILDLIFE**COMMENTS****Form****Section****Comments**

SITE

CHANNEL

Stream sampled mid-September - water flows very low - trickle in lower 50 metres of reach - upstream of this channel is dry.

SITE

WATER

No electroshockable water - water quality measurements taken from small pools found in downstream portion of reach.

Site/Reach Card

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

Reach 3.0
Site # 50

ILP # 71329
ILP Map # 93K.071

Project Name Northwood Pulp and Timber Fish Inventory

Project Code 06-BABL-0103-0606-1998

REACH ATTRIBUTES

Sample Type R

Length (km) 1.20 Elevation (m): upstream 1050 downstream 820 UTM (Zone/East/North/ method)
Gradient (%) 19.2 Order 2 Magnitude 2 BGC Zone SBS
Setting Valley Wall Bars ☒ None ☐ Side ☐ Diagonal ☐ Mid ☐ Span ☐ Braid
Open water A Wetland ☐ Mass Movement Medium impact; some debris Active Floodplain ☐
Confinement Confined Exposed/Eroded Unknown, Not visible Width (m)
Coupling Coupled Islands None Visible Beaver Dam(s) ☐
Channel Pattern Irregular Meanders Landuse None/natural LWD jam(s) ☐
Riparian Vegetation Coniferous Valley Flat No valley flat on either bank (C)ontinuous ☐
(D)iscontinuous ☐

SITE

Gazetted Name Local Name Unnamed
Survey Date 1998/09/19 Time 15:27 FIELD UTM(Zone/East/North/Method)
Crew JD/SW Access H MAP UTM (Zone/East/North/Method) GIS
Site Length (m) 200 Method HC Fish Card ☒ Incomplete ☐ NID Map 93K.081 NID # 50

CHANNEL

							Average	Method(s)
Channel Widths (m)	4.1	1.4	1.6	2.0	1.7	1.7	2.1	T
Wetted Widths (m)	1.0	0.4	0.6	1.3	1.2	0.9	0.9	T
Resid. Pool Depths (m)	0.02	0.16	0.15	0.12	0.03	0.05	0.09	T

No Vis.Ch. ☐	Dewatered ☐	Gradients (%)	18.0	19.0	18.5	AL ,
Intermittent ☐	Tributaries ☐	Bankfull Depth (m)	0.1	0.3	0.3	0.2 T

Stage ☒ Low
☐ Med.
☐ High

COVER -		Total	Moderate	LWD Few	Dist. Evenly Distributed	
SWD	LWD	Boulder	Cutbank	Deep Pool	Over Veg	Instream Veg
Trace	Sub-Dominant	Dominant	Sub-Dominant	Sub-Dominant	Sub-Dominant	None

Crown Closure
41-70%

Instream Vegetation

☒ None ☐ Moss
☐ Algae ☐ Vasc.

LEFT BANK

Shape Undercut
Riparian Veg. Mixed C/D
Riparian Stage Mature forest

Texture ☒ Fines ☐ Gravel ☐ Cobble
☐ Boulder ☐ Rock ☐ Man Made

RIGHT BANK

Shape Undercut
Riparian Veg. Mixed C/D
Riparian Stage Mature forest

Texture ☒ Fines ☐ Gravel ☐ Cobble
☐ Boulder ☐ Rock ☐ Man Made

WATER

Temperature 9.1 Method T4 pH 8.0 Method P2 EMS #
Conductivity 152 Method S2 Turbidity ☐ Turbid ☐ Medium ☐ Light ☒ Clear Method GE

MORPHOLOGY

BED Dominant Cobble
MATERIAL Subdominant Boulders

D95(cm) (only 5%larger) 65
D (cm) (moveable) 16

Channel Pattern Sinuous
Coupling Coupled
Confinement Frequently Confined
Islands None

Morphology Code
RP

Beaver Dam(s) ☐ O1
Eroding Bank(s) ☐ B2 ☒ None ☐ Mid
LWD Jam(s) ☐ D3 ☐ Side ☐ Span
Sediment Wedges ☐ S3 ☐ Diag. ☐ Braid

Site/Reach Card

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

Reach 3.0

ILP # 71329

Site # 50

ILP Map # 93K.071

Project Name Northwood Pulp and Timber Fish Inventory

Project Code 06-BABL-0103-0606-1998

FEATURES**HABITAT QUALITY**

FSZs

Side Chan ☐Flood/Beaver ☐Tribes ☐Flood Chan ☐Slough ☐

Name	Comments
Rearing Habitat	Good rearing habitat - continuous flows
Spawning Habitat	Fair to poor spawning habitat - little gravels

PHOTO DOCUMENTATION

Film	Compact Disc	Lens / Dir.	Comments
Roll 13 Fr 36 CD 274 Im 37 STD U	Nice cobble boulder habitat		
Roll 14 Fr 1 CD 274 Im 38 STD D			

WILDLIFE**COMMENTS**

Form	Section	Comments
SITE	CHANNEL	Upper portion of reach gradients of 20 percent - fish barrier. No fish found. Left bank: coupled - Right bank: partially coupled.
SITE	CHANNEL	In addition to sampling in reach 3, sampled 300 metres downstream into reach 2 - no fish found - low flow. Suggest sampling of reach 1 to determine if fish barrier from lake.

Site/Reach Card

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

Reach 8.0
Site # 51

ILP # 9303
ILP Map # 93M.009

Project Name Northwood Pulp and Timber Fish Inventory

Project Code 06-BABL-0103-0606-1998

REACH ATTRIBUTES						Sample Type	R
Length (km)	.28	Elevation (m): upstream	1040	downstream	1021	UTM (Zone/East/North/ method)	
Gradient (%)	6.8	Order	2	Magnitude	4	BGC Zone	SBS
Setting	Plain/Large Plateau		Bars		☒ None	☐ Side	☐ Diagonal
					☐ Mid	☐ Span	☐ Braid
Open water	A	Wetland	☐	Mass Movement	Low or no impact to channel;		Active Floodplain
Confinement	Occasionally Confined		Exposed/Eroded		Unknown, Not visible		Width (m)
Coupling	Decoupled		Islands		Not Specified		Beaver Dam(s)
Channel Pattern	Regular Meanders		Landuse		None/natural		LWD jam(s)
Riparian Vegetation	Mixed C/D		Valley Flat		Not Specified		(C)ontinuous
							(D)iscontinuous

SITE			
Gazetted Name	Local Name Unnamed		
Survey Date 1998/09/20	Time 09:47	FIELD UTM(Zone/East/North/Method)	
Crew SW/JD	Access H	MAP UTM (Zone/East/North/Method)	
Site Length (m) 280	Method HC	Fish Card ☒ Incomplete	NID Map 93M.010 NID # 51

CHANNEL							Average	Method(s)
Channel Widths (m)	2.7	2.5	3.0	2.6	2.7	2.4	2.7	T
Wetted Widths (m)	0.6	0.9	1.0	0.6	0.5	0.9	0.8	T
Resid. Pool Depths (m)	0.11	0.12	0.13	0.05	0.04	0.16	0.10	T
No Vis.Ch. ☐	Dewatered ☐	Gradients (%)		4.0	5.0		4.5	C ,
Intermittent ☐	Tributaries ☐	Bankfull Depth (m)		0.3	0.4	0.3	0.3	T

Stage ☒ Low	COVER -		Total	Abundant	LWD	Abundant	Dist.	Evenly Distributed
☐ Med.	SWD	LWD	Boulder	Cutbank	Deep Pool	Over Veg	Instream Veg	
☐ High	Sub-Dominant	Sub-Dominant	Dominant	Trace	Trace	Trace	Trace	
Crown Closure	LEFT BANK		RIGHT BANK					
41-70%	Shape Sloping (gradual or shallow sloping)		Shape Overhanging bank					
Instream Vegetation	Riparian Veg. Coniferous		Riparian Veg. Coniferous					
☐ None ☒ Moss	Riparian Stage Mature forest		Riparian Stage Mature forest					
☐ Algae ☒ Vasc.	Texture ☒ Fines ☐ Gravel ☐ Cobble		Texture ☒ Fines ☐ Gravel ☐ Cobble					
	☐ Boulder ☐ Rock ☐ Man Made		☐ Boulder ☐ Rock ☐ Man Made					

WATER			
Temperature 6.5	Method T4	pH 7.4	Method P2
Conductivity 75	Method S2	Turbidity	☐ Turbid ☐ Medium ☐ Light ☒ Clear
			EMS #

MORPHOLOGY			
BED Dominant Boulders	D95(cm) (only 5%larger)		35
MATERIAL Subdominant Cobble	D (cm) (moveable)		10
Channel Pattern Irregular, Wandering	Beaver Dam(s) ☒ O1		Bars
Coupling Partially Coupled	Eroding Bank(s) ☐ B2		☒ None ☐ Mid
Confinement Occasionally Confined	LWD Jam(s) ☐ D3		☐ Side ☐ Span
Islands None	Sediment Wedges ☐ S3		☐ Diag. ☐ Braid
Morphology Code		RP	

Site/Reach Card

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

Reach 8.0

ILP # 9303

Site # 51

ILP Map # 93M.009

Project Name Northwood Pulp and Timber Fish Inventory

Project Code 06-BABL-0103-0606-1998

FEATURES

Type BD Height 1.2 Method GE Length 15 Method GE

Comments Beaver dam below lake outlet

Photograph Roll 14 Frame 2 UTM (Zone/East/North/ Method)

HABITAT QUALITY

FSZs

Side Chan ☐Flood/Beaver ☐Tribes ☐Flood Chan ☐Slough ☐

Name

Comments

Rearing Habitat

Fair rearing when more water present

Spawning Habitat

Poor spawning habitat - low flows and limited gravel

PHOTO DOCUMENTATION

Film	Compact Disc	Lens / Dir.	Comments
Roll 14 Fr 3 CD 274 Im 40 STD U	Cobble boulder habitat		
Roll 14 Fr 4 CD 274 Im 41 STD D	Large woody debris spanning stream		
Roll 14 Fr 2 CD 274 Im 39 STD NS	Beaver dam below lake outlet		

WILDLIFE

Group Observations

MAM Moose

MAM Beaver

INV Gammarus

COMMENTS

Form	Section	Comments
SITE	CHANNEL	May be a fish bearing stream if upstream lake contains fish - no fish caught downstream in reach 8. Class as S6.

FDIS Fish Form

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

Reach # 8.0

ILP # 9303

ILP Map # 93M.009

Project Name Northwood Pulp and Timber Fish Inventory

Project Code 06-BABL-0103-0606-1998

Lake / Stream	S	SITE / METHOD				Waterbody ID
---------------	---	---------------	--	--	--	--------------

Permit 34770-20 Date: 1998/09/20 To: 1998/09/20 Crew: SW/JD Resample ☐

Site	NID MAP	NID	UTM:Zone/East/North/ Mthd	MTD/NO	Temp	Cond	Turbid	Comment
51	93M.010	51		EF 1	7.0	75	C	

GEAR SETTINGS

Site	MTD/NO	H/P	Date In	Time In	Date Out	Time Out	Comment
51	EF 1	1	1998/09/20	09:50	1998/09/20	10:41	

NET/TRAP SPECIFICATIONS

ELECTROFISHER SPECIFICATIONS

Site	MTD/NO	H/P	Encl	Sec.	Length	Width	Volts	Hz	Pulse	Make	Model
51	EF 1	1	O	232	280.0	2.5	600	60	5	SR	12 B POW

FISH SUMMARY

Site	MTD/NO	H/P	Species	Stage	Age	Total #	Lgth (Min/Max)	Activity	Comment
51	EF	1	1	NFC		0			

INDIVIDUAL FISH DATA

COMMENTS

Section

WATERBODY

Comments

Electroshocked pools only - riffles too shallow. No fish were observed in the lake - suggest sample of the lake with minnow traps.

Site/Reach Card

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

Reach 7.0

ILP # 9303

Site # 52

ILP Map # 93M.009

Project Name Northwood Pulp and Timber Fish Inventory

Project Code 06-BABL-0103-0606-1998

REACH ATTRIBUTES

Sample Type R

Length (km) .82 Elevation (m): upstream 1021 downstream 1020 UTM (Zone/East/North/ method)
 Gradient (%) 0.1 Order 2 Magnitude 6 BGC Zone SBS
 Setting Plain/Large Plateau Bars ☒ None ☐ Side ☐ Diagonal ☐ Mid ☐ Span ☐ Braid
 Open water A Wetland ☒ Mass Movement Low or no impact to channel; Active Floodplain ☐
 Confinement Unconfined Exposed/Eroded Unknown, Not visible Width (m)
 Coupling Decoupled Islands Not Specified Beaver Dam(s) ☐
 Channel Pattern Regular Meanders Landuse None/natural LWD jam(s) ☐
 Riparian Vegetation Shrubs Valley Flat Not Specified (C)ontinuous ☐
 (D)iscontinuous ☐

SITE

Gazetted Name Local Name Unnamed
 Survey Date 1998/09/20 Time 10:53 FIELD UTM(Zone/East/North/Method)
 Crew SW/JD Access H MAP UTM (Zone/East/North/Method) GIS
 Site Length (m) 400 Method HC Fish Card ☒ Incomplete ☐ NID Map 93M.010 NID # 52

CHANNEL

							Average	Method(s)
Channel Widths (m)	20.2	30.5	31.0	25.0	26.0	22.0	25.8	GE
Wetted Widths (m)	18.0	20.0	25.0	22.0	21.0	18.0	20.7	GE
Resid. Pool Depths (m)	0.50	0.60	0.70	1.20	1.10	1.30	0.90	GE

No Vis.Ch. ☐	Dewatered ☐	Gradients (%)	1.0	1.0	1.0	AL ,
Intermittent ☐	Tributaries ☐	Bankfull Depth (m)	0.4	0.5	0.8	T

Stage ☐ Low
☐ Med.
☒ High

COVER -		Total	Abundant	LWD	Few	Dist.	Clumped
SWD	LWD	Boulder	Cutbank	Deep Pool	Over Veg	Instream Veg	
Trace	Trace	None	None	Sub-Dominant	Sub-Dominant	Dominant	

Crown Closure
 1-20%

LEFT BANK
 Shape Sloping (gradual or shallow sloping)
 Riparian Veg. Shrubs
 Riparian Stage Shrub/herb stage

RIGHT BANK
 Shape Sloping (gradual or shallow sloping)
 Riparian Veg. Shrubs
 Riparian Stage Shrub/herb stage

Instream Vegetation
☐ None ☐ Moss
☐ Algae ☒ Vasc.

Texture ☒ Fines ☐ Gravel ☐ Cobble
☐ Boulder ☐ Rock ☐ Man Made

Texture ☒ Fines ☐ Gravel ☐ Cobble
☐ Boulder ☐ Rock ☐ Man Made

WATER

Temperature 7 Method T4 pH 7.4 Method P2 EMS #
 Conductivity 85 Method S2 Turbidity ☐ Turbid ☐ Medium ☐ Light ☒ Clear Method GE

MORPHOLOGY

BED Dominant Fines D95(cm) (only 5%larger) 1
 MATERIAL Subdominant Not Applicable (same as Dominant) D (cm) (moveable) 1
 Channel Pattern Straight
 Coupling Decoupled
 Confinement Unconfined
 Islands None

Morphology Code
 NS

Beaver Dam(s) ☒ O1
 Eroding Bank(s) ☐ B2 ☒ None ☐ Mid
 LWD Jam(s) ☐ D3 ☐ Side ☐ Span
 Sediment Wedges ☐ S3 ☐ Diag. ☐ Braid

Site/Reach Card

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

Reach 7.0
Site # 52ILP # 9303
ILP Map # 93M.009

Project Name Northwood Pulp and Timber Fish Inventory

Project Code 06-BABL-0103-0606-1998

FEATURES

Type BD Height 1.2 Method GE Length 15 Method GE

Comments Beaver dam below lake outlet

Photograph Roll 14 Frame 5 UTM (Zone/East/North/ Method)

HABITAT QUALITY

FSZs

Side Chan ☐Flood/Beaver ☐Tribes ☐Flood Chan ☐Slough ☐

Name Comments

Rearing Habitat Fair rearing habitat when more water

Spawning Habitat Poor spawning habitat - low flows and limited gravel

PHOTO DOCUMENTATION

Film Compact Disc Lens / Dir. Comments

Roll 14 Fr 6 CD 274 Im 43 STD D Wetland

Roll 14 Fr 7 CD 274 Im 44 STD U Wetland

Roll 14 Fr 5 CD 274 Im 42 STD NS Beaver dam below lake outlet

WILDLIFE

Group Observations

MAM Moose

MAM Beaver

INV Gammarus

COMMENTS

Form Section Comments

SITE CHANNEL Note channel widths are of wetland - beaver dams have created a wetland not a stream - should be classified a wetland.

FDIS Fish Form

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

Reach # 7.0

ILP # 9303

ILP Map # 93M.009

Project Name Northwood Pulp and Timber Fish Inventory

Project Code 06-BABL-0103-0606-1998

Lake / Stream	S	SITE / METHOD		Waterbody ID
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Permit 34770-20 Date: 1998/09/20 To: 1998/09/20 Crew: SW/JD Resample ☐

Site	NID MAP	NID	UTM:Zone/East/North/ Mthd	MTD/NO	Temp	Cond	Turbid	Comment
52	93M.010	52		EF 1	7.0	85	C	Wetland

GEAR SETTINGS

Site	MTD/NO	H/P	Date In	Time In	Date Out	Time Out	Comment
52	EF 1	1	1998/09/20	10:55	1998/09/20	11:30	

NET/TRAP SPECIFICATIONS

ELECTROFISHER SPECIFICATIONS

Site	MTD/NO	H/P	Encl	Sec.	Length	Width	Volts	Hz	Pulse	Make	Model
52	EF 1	1	O	328	285.0	15.0	600	60	5	SR	12 B POW

FISH SUMMARY

Site	MTD/NO	H/P	Species	Stage	Age	Total #	Lgth (Min/Max)	Activity	Comment
52	EF	1	1	NFC		0			

INDIVIDUAL FISH DATA

COMMENTS

Section	Comments
WATERBODY	Wetland sampled - water on edge of wetland and below beaver dam sampled - no fish caught

Site/Reach Card

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

Reach 8.0
Site # 57

ILP # 10336
ILP Map # 93L.100

Project Name Northwood Pulp and Timber Fish Inventory

Project Code 06-BABL-0103-0606-1998

REACH ATTRIBUTES

Sample Type R

Length (km) .49 Elevation (m): upstream 1135 downstream 1115 UTM (Zone/East/North/ method)
Gradient (%) 4.1 Order 2 Magnitude 2 BGC Zone SBS
Setting Valley Wall Bars ☒ None ☐ Side ☐ Diagonal ☐ Mid ☐ Span ☐ Braid
Open water A Wetland ☐ Mass Movement Not Specified Active Floodplain ☐
Confinement Occasionally Confined Exposed/Eroded Not Specified Width (m)
Coupling Decoupled Islands Not Specified Beaver Dam(s) ☐
Channel Pattern Regular Meanders Landuse None/natural LWD jam(s) ☐
Riparian Vegetation Coniferous Valley Flat Not Specified (C)ontinuous ☐
(D)iscontinuous ☐

SITE

Gazetted Name Local Name Unnamed
Survey Date 1998/09/20 Time 15:01 FIELD UTM(Zone/East/North/Method)
Crew SW/JD Access H MAP UTM (Zone/East/North/Method) GIS
Site Length (m) 100 Method HC Fish Card ☒ Incomplete ☐ NID Map 93M.010 NID # 57

CHANNEL

							Average	Method(s)
Channel Widths (m)	0.8	0.8	0.5	1.0	0.9	0.6	0.8	T
Wetted Widths (m)	0.2	0.3	0.4	0.5	0.5	0.4	0.4	T
Resid. Pool Depths (m)	0.11	0.12	0.09	0.09	0.13	0.10	0.11	T

No Vis.Ch. ☐ Dewatered ☐ Gradients (%) 2.0 1.0 1.5 AL ,
Intermittent ☒ Tributaries ☐ Bankfull Depth (m) 0.2 0.2 0.3 0.2 T

Stage ☒ Low
☐ Med.
☐ High

COVER -		Total	Abundant	LWD	Few	Dist.	Clumped
SWD	LWD	Boulder	Cutbank	Deep Pool	Over Veg	Instream Veg	
Trace	Trace	None	Dominant	None	Sub-Dominant	Trace	

Crown Closure
21-40%

LEFT BANK

Shape Overhanging bank
Riparian Veg. Coniferous
Riparian Stage Mature forest

Instream Vegetation

☐ None ☒ Moss
☐ Algae ☒ Vasc.

Texture ☒ Fines ☐ Gravel ☐ Cobble
☐ Boulder ☐ Rock ☐ Man Made

RIGHT BANK

Shape Overhanging bank
Riparian Veg. Shrubs
Riparian Stage Shrub/herb stage

Texture ☒ Fines ☐ Gravel ☐ Cobble
☐ Boulder ☐ Rock ☐ Man Made

WATER

Temperature 7.1 Method T4 pH 7.3 Method P2 EMS #
Conductivity 78 Method S2 Turbidity ☐ Turbid ☐ Medium ☐ Light ☒ Clear Method GE

MORPHOLOGY

BED Dominant Fines D95(cm) (only 5%larger) 1
MATERIAL Subdominant Not Applicable (same as Dominant) D (cm) (moveable) 1
Channel Pattern Irregular, Wandering
Coupling Decoupled
Confinement Unconfined
Islands None

Morphology Code
RP

Beaver Dam(s) ☐ O1
Eroding Bank(s) ☐ B2 ☒ None ☐ Mid
LWD Jam(s) ☐ D3 ☐ Side ☐ Span
Sediment Wedges ☐ S3 ☐ Diag. ☐ Braid

Site/Reach Card

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

Reach 8.0

ILP # 10336

Site # 57

ILP Map # 93L.100

Project Name Northwood Pulp and Timber Fish Inventory

Project Code 06-BABL-0103-0606-1998

FEATURES**HABITAT QUALITY**

FSZs

Side Chan ☐Flood/Beaver ☐Tribes ☐Flood Chan ☐Slough ☐

Name	Comments
Rearing Habitat	Poor rearing habitat - pools are limited and separated by subsurface flows
Spawning Habitat	No spawning habitat present

PHOTO DOCUMENTATION

Film	Compact Disc	Lens / Dir.	Comments
Roll 14 Fr 17 CD 274 Im 45 STD U	Sections of subsurface flow		
Roll 14 Fr 18 CD 274 Im 46 STD D	Sections of subsurface flow		

WILDLIFE

Group	Observations
MAM	moose

COMMENTS

Form	Section	Comments
SITE	CHANNEL	S6 Stream - no access to this reach - no fish present within the reach - intermittent stream

FDIS Fish Form

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

Reach # 8.0

ILP # 10336

ILP Map # 93L.100

Project Name Northwood Pulp and Timber Fish Inventory

Project Code 06-BABL-0103-0606-1998

Lake / Stream	S	SITE / METHOD		Waterbody ID
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Permit	34770-20	Date:	1998/09/20	To:	1998/09/20	Crew:	SW/JD	Resample	☐
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Site	NID MAP	NID	UTM:Zone/East/North/ Mthd	MTD/NO	Temp	Cond	Turbid	Comment
57	93M.010	57		EF 1	7.1	78	C	

GEAR SETTINGS

Site	MTD/NO	H/P	Date In	Time In	Date Out	Time Out	Comment
57	EF 1	1	1998/09/20	15:04	1998/09/20	15:30	

NET/TRAP SPECIFICATIONS

ELECTROFISHER SPECIFICATIONS

Site	MTD/NO	H/P	Encl	Sec.	Length	Width	Volts	Hz	Pulse	Make	Model
57	EF 1	1	O	298	120.0	0.6	600	60	5	SR	12 B POW

FISH SUMMARY

Site	MTD/NO	H/P	Species	Stage	Age	Total #	Lgth (Min/Max)	Activity	Comment
57	EF	1 1	NFC			0			

INDIVIDUAL FISH DATA

COMMENTS

Section	Comments
WATERBODY	No fish caught - fifteen small, isolated pools

Site/Reach Card

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

Reach 6.0
Site # 58

ILP # 10336
ILP Map # 93L.100

Project Name Northwood Pulp and Timber Fish Inventory

Project Code 06-BABL-0103-0606-1998

REACH ATTRIBUTES

Sample Type B

Length (km) .79 Elevation (m): upstream 1120 downstream 1080 UTM (Zone/East/North/ method)
Gradient (%) 5.1 Order 2 Magnitude 3 BGC Zone SBS
Setting Valley Wall Bars ☒ None ☐ Side ☐ Diagonal ☐ Mid ☐ Span ☐ Braid
Open water A Wetland ☐ Mass Movement Not Specified Active Floodplain ☐
Confinement Confined Exposed/Eroded Unknown, Not visible Width (m)
Coupling Decoupled Islands None Visible Beaver Dam(s) ☐
Channel Pattern Irregular, Wandering Landuse None/natural LWD jam(s) ☐
Riparian Vegetation Coniferous Valley Flat Not Specified (C)ontinuous ☐
(D)iscontinuous ☐

SITE

Gazetted Name Local Name Unnamed
Survey Date 1998/09/20 Time 15:35 FIELD UTM(Zone/East/North/Method)
Crew JD/SW Access H MAP UTM (Zone/East/North/Method) GIS
Site Length (m) 140 Method HC Fish Card ☒ Incomplete ☐ NID Map 93M.010 NID # 58

CHANNEL

							Average	Method(s)
Channel Widths (m)	1.1	1.0	1.3	0.9	1.0	0.9	1.0	T
Wetted Widths (m)	0.4	0.6	0.6	0.7	0.5	0.6	0.6	T
Resid. Pool Depths (m)	0.08	0.07	0.09	0.11	0.04	0.13	0.09	T

No Vis.Ch. ☐	Dewatered ☐	Gradients (%)	4.0	5.0	4.5	C ,
Intermittent ☐	Tributaries ☐	Bankfull Depth (m)	0.2	0.3	0.3	T

Stage ☒ Low
☐ Med.
☐ High

COVER -		Total	Abundant	LWD	Abundant	Dist.	Evenly Distributed
SWD	LWD	Boulder	Cutbank	Deep Pool	Over Veg	Instream Veg	
Trace	Sub-Dominant	Trace	Dominant	None	Sub-Dominant	Trace	

Crown Closure
41-70%

Instream Vegetation

☐ None ☒ Moss
☐ Algae ☒ Vasc.

LEFT BANK

Shape Overhanging bank
Riparian Veg. Shrubs
Riparian Stage Shrub/herb stage

Texture ☒ Fines ☐ Gravel ☐ Cobble
☐ Boulder ☐ Rock ☐ Man Made

RIGHT BANK

Shape Overhanging bank
Riparian Veg. Coniferous
Riparian Stage Mature forest

Texture ☒ Fines ☐ Gravel ☐ Cobble
☐ Boulder ☐ Rock ☐ Man Made

WATER

Temperature 7.2 Method T4 pH 7.4 Method P2 EMS #
Conductivity 81 Method S2 Turbidity ☐ Turbid ☐ Medium ☐ Light ☒ Clear Method GE

MORPHOLOGY

BED Dominant Cobble
MATERIAL Subdominant Fines

D95(cm) (only 5%larger) 20
D (cm) (moveable) 1

Channel Pattern Irregular, Wandering
Coupling Decoupled
Confinement Occasionally Confined
Islands None

Morphology Code
RP

Beaver Dam(s) ☐ O1
Eroding Bank(s) ☐ B2 ☒ None ☐ Mid
LWD Jam(s) ☐ D3 ☐ Side ☐ Span
Sediment Wedges ☐ S3 ☐ Diag. ☐ Braid

Site/Reach Card

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

Reach 6.0

ILP # 10336

Site # 58

ILP Map # 93L.100

Project Name Northwood Pulp and Timber Fish Inventory

Project Code 06-BABL-0103-0606-1998

FEATURES**HABITAT QUALITY**

FSZs

Side Chan ☐Flood/Beaver ☐Tribes ☐Flood Chan ☐Slough ☐**Name** **Comments**

Rearing Habitat Fair rearing habitat - lots of cover and adequate flows

Spawning Habitat Poor spawning habitat - no spawning gravel

PHOTO DOCUMENTATION

Film	Compact Disc	Lens / Dir.	Comments
Roll 14 Fr 19 CD Im	STD U	Photo taken. Photo did not turn out. No CD image.	
Roll 14 Fr 20 CD Im	STD D	Photo taken. Photo did not turn out. No CD image.	

WILDLIFE

Group	Observations
MAM	Moose

COMMENTS

Form	Section	Comments
SITE	CHANNEL	S6 Stream - sampled adjacent to cutblock boundary

FDIS Fish Form

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

Reach # 6.0

ILP # 10336

ILP Map # 93L.100

Project Name Northwood Pulp and Timber Fish Inventory

Project Code 06-BABL-0103-0606-1998

Lake / Stream	S	SITE / METHOD		Waterbody ID	
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Permit	34770-20	Date:	1998/09/20	To:	1998/09/20	Crew:	SW/JD	Resample	☐
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Site	NID MAP	NID	UTM:Zone/East/North/ Mthd	MTD/NO	Temp	Cond	Turbid	Comment
58	93M.010	58		EF 1	7.2	81	C	

GEAR SETTINGS

Site	MTD/NO	H/P	Date In	Time In	Date Out	Time Out	Comment
58	EF 1	1	1998/09/20	15:35	1998/09/20	16:02	

NET/TRAP SPECIFICATIONS

ELECTROFISHER SPECIFICATIONS

Site	MTD/NO	H/P	Encl	Sec.	Length	Width	Volts	Hz	Pulse	Make	Model
58	EF 1	1	O	150	140.0	1.2	600	60	5	SR	12 B POW

FISH SUMMARY

Site	MTD/NO	H/P	Species	Stage	Age	Total #	Lgth (Min/Max)	Activity	Comment
58	EF	1	1	NFC		0			

INDIVIDUAL FISH DATA

COMMENTS

Section

Comments

WATERBODY

No fish caught adjacent to stream and downstream - S6 stream

Site/Reach Card

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

Reach 2.0
Site # 61

ILP # 11333
ILP Map # 93M.010

Project Name Northwood Pulp and Timber Fish Inventory

Project Code 06-BABL-0103-0606-1998

REACH ATTRIBUTES				Sample Type
Length (km)	.39	Elevation (m): upstream	1100	downstream 1085 UTM (Zone/East/North/ method)
Gradient (%)	3.9	Order	1	Magnitude 1 BGC Zone SBS
Setting	Plain/Large Plateau Bars ☒ None ☐ Side ☐ Diagonal ☐ Mid ☐ Span ☐ Braid			
Open water	A	Wetland	☐	Mass Movement Low or no impact to channel; Active Floodplain ☐
Confinement	Occasionally Confined		Exposed/Eroded	Unknown, Not visible Width (m)
Coupling	Decoupled		Islands	NONE Beaver Dam(s) ☐
Channel Pattern	Sinuous		Landuse	None/natural LWD jam(s) ☐
Riparian Vegetation	Mixed C/D		Valley Flat	Not Specified (C)ontinous ☐ (D)iscontinuous ☐

SITE			
Gazetted Name	Local Name Unnamed		
Survey Date	1998/09/21	Time	12:40 FIELD UTM(Zone/East/North/Method)
Crew	JD/SW	Access	FT MAP UTM (Zone/East/North/Method) GIS
Site Length (m)	100	Method	HC Fish Card ☐ Incomplete ☐ NID Map 93M.010 NID # 61

CHANNEL	
No Visible Channel ☒	
Gradient(s) (%)	
Vegetation	
Veg. Stage	

FEATURE			
HABITAT QUALITY		FSZs	Side Chan ☐ Flood/Beaver ☐
		Tribs. ☐	Flood Chan ☐ Slough ☐

Name	Comments
Rearing Habitat	No fish habitat

PHOTO DOCUMENTATION							
Film	Compact Disc			Lens / Dir.		Comments	
Roll 14	Fr	27	CD 274	Im	47	STD	U
Roll 14	Fr	28	CD 274	Im	48	STD	D
Roll 14	Fr	29	CD 274	Im	49	STD	X Dominant portion of reach

COMMENT		
Form	Section	Comments
SITE	CHANNEL	First two photos taken at upstream portion of reach where gradien becomes steeper - dominant portion of reach (downstream) is a swamp (shrubs) with no visible channel in it. Swamp heavily vegetated with Salix species (alder and shrubs) -- S6 stream

Site/Reach Card

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

Reach 4.0
Site # 70

ILP # 9303
ILP Map # 93M.009

Project Name Northwood Pulp and Timber Fish Inventory

Project Code 06-BABL-0103-0606-1998

REACH ATTRIBUTES

Sample Type R

Length (km) .80 Elevation (m): upstream 900 downstream 860 UTM (Zone/East/North/ method)
Gradient (%) 5.0 Order 3 Magnitude 13 BGC Zone SBS
Setting Valley Wall Bars ☒ None ☐ Side ☐ Diagonal ☐ Mid ☐ Span ☐ Braid
Open water A Wetland ☐ Mass Movement Not Specified Active Floodplain ☐
Confinement Occasionally Confined Exposed/Eroded Unknown, Not visible Width (m)
Coupling Decoupled Islands Not Specified Beaver Dam(s) ☐
Channel Pattern Sinuous Landuse Logging LWD Jam(s) ☐
Riparian Vegetation Shrubs Valley Flat Not Specified (C)ontinuous ☐
(D)iscontinuous ☐

SITE

Gazetted Name Local Name Unnamed
Survey Date 1998/09/23 Time 12:39 FIELD UTM(Zone/East/North/Method)
Crew JD/SW Access V2 MAP UTM (Zone/East/North/Method) GIS
Site Length (m) 200 Method HC Fish Card ☒ Incomplete ☐ NID Map 93M.010 NID # 70

CHANNEL

							Average	Method(s)
Channel Widths (m)	2.7	3.3	2.5	4.2	5.4	3.2	3.6	T
Wetted Widths (m)	1.3	1.6	1.4	1.3	3.6	1.0	1.7	T
Resid. Pool Depths (m)	0.04	0.07	0.09	0.20	0.04	0.29	0.12	T

No Vis.Ch. ☐ Dewatered ☐
Intermittent ☐ Tributaries ☐
Gradients (%) 6.0 6.0 6.0 AL,
Bankfull Depth (m) 0.4 0.4 0.3 0.4 T

Stage ☐ Low
☒ Med.
☐ High

COVER -		Total	Moderate	LWD Few	Dist. Evenly Distributed	
SWD	LWD	Boulder	Cutbank	Deep Pool	Over Veg	Instream Veg
Trace	Dominant	Trace	Trace	Sub-Dominant	Sub-Dominant	None

Crown Closure
1-20%

Instream Vegetation

☒ None ☐ Moss
☐ Algae ☐ Vasc.

LEFT BANK

Shape V - shaped (steep sloping or vertical)
Riparian Veg. Deciduous
Riparian Stage Pole-sapling stage

Texture ☐ Fines ☒ Gravel ☐ Cobble
☐ Boulder ☐ Rock ☐ Man Made

RIGHT BANK

Shape Sloping (gradual or shallow sloping)
Riparian Veg. Deciduous
Riparian Stage Pole-sapling stage

Texture ☐ Fines ☒ Gravel ☐ Cobble
☐ Boulder ☐ Rock ☐ Man Made

WATER

Temperature 7.8 Method T4 pH 8.0 Method P2 EMS #
Conductivity 227 Method S2 Turbidity ☐ Turbid ☐ Medium ☐ Light ☒ Clear Method GE

MORPHOLOGY

BED Dominant Gravels
MATERIAL Subdominant Cobble

D95(cm) (only 5%larger) 45
D (cm) (moveable) 12

Channel Pattern Sinuous
Coupling Partially Coupled
Confinement Frequently Confined
Islands None

Morphology Code
RP

Beaver Dam(s) ☐ O1
Eroding Bank(s) ☐ B2
LWD Jam(s) ☐ D3
Sediment Wedges ☐ S3
Bars
☐ None ☐ Mid
☒ Side ☐ Span
☐ Diag. ☐ Braid

Site/Reach Card

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

Reach 4.0

ILP # 9303

Site # 70

ILP Map # 93M.009

Project Name Northwood Pulp and Timber Fish Inventory

Project Code 06-BABL-0103-0606-1998

FEATURES

Type BR Height 1.0 Method GE Length 12 Method GE

Comments Wooden bridge crosses stream at downstream portion of reach

Photograph Roll 15 Frame 26 UTM (Zone/East/North/ Method)

HABITAT QUALITY

FSZs

Side Chan ☐Flood/Beaver ☐Tribes ☐Flood Chan ☐Slough ☐**Name****Comments**

Rearing Habitat

Excellent rearing habitat - good flows, cover and pools

Spawning Habitat

Fair spawning habitat

PHOTO DOCUMENTATION

Film	Compact Disc	Lens / Dir.	Comments
Roll 15 Fr 26 CD 274 Im 52 STD D	Photo of wooden bridge spanning stream		
Roll 15 Fr 27 CD 274 Im 53 STD U			
Roll 15 Fr 28 CD 274 Im 54 STD NS	Fish samples		
Roll 15 Fr 29 CD 274 Im 55 STD D	Side bars		
Roll 15 Fr 30 CD 274 Im 56 STD D	Side bars		

WILDLIFE**COMMENTS**

Form	Section	Comments
SITE	CHANNEL	Nice stream with boulders, pools, cover and good flows
SITE	COVER	Was previously logged to the banks
SITE	MORPHOLOGY	Left bank partially uncoupled - right bank more decoupled than partially uncoupled.

FDIS Fish Form

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

Reach # 4.0

ILP # 9303

ILP Map # 93M.009

Project Name Northwood Pulp and Timber Fish Inventory

Project Code 06-BABL-0103-0606-1998

Lake / Stream	S	SITE/METHOD				Waterbody ID
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Permit 34770-20 Date: 1998/09/23 To: 1998/09/23 Crew: JD/SW Resample ☐

Site	NID MAP	NID	UTM:Zone/East/North/ Mthd	MTD/NO	Temp	Cond	Turbid	Comment
70	93M.010	70		EF 1	7.8	229	C	

GEAR SETTINGS

Site	MTD/NO	H/P	Date In	Time In	Date Out	Time Out	Comment
70	EF 1	1	1998/09/23	12:50	1998/09/23	13:10	

NET/TRAP SPECIFICATIONS

ELECTROFISHER SPECIFICATIONS

Site	MTD/NO	H/P	Encl	Sec.	Length	Width	Volts	Hz	Pulse	Make	Model
70	EF 1	1	O	221	150.0	1.5	400	60	5	SR	12 B POW

FISH SUMMARY

Site	MTD/NO	H/P	Species	Stage	Age	Total #	Lgth (Min/Max)	Activity	Comment
70	EF	1 1	RB	J		4	35 41	R	
70	EF	1 1	RB	A		13	61 150	R	

INDIVIDUAL FISH DATA

Site	MTD/NO	H/P	Species	Length (mm)	Weight (g)	Sex	Mat	Age	Str / Smp# / Age	Vch#	Genetic	Str/ Smp#	Photograph	Roll Fr.	Comment
70	EF	1 1	RB	150		U	U		SC 10 1+	10	R	10		15 28	Cutthroat for all species
70	EF	1 1	RB	40		U	U								
70	EF	1 1	RB	35		U	U								
70	EF	1 1	RB	37		U	U								
70	EF	1 1	RB	41		U	U								
70	EF	1 1	RB	61		U	U								
70	EF	1 1	RB	71		U	U								
70	EF	1 1	RB	92		U	U								
70	EF	1 1	RB	98		U	U								
70	EF	1 1	RB	84		U	U		SC 11 1+	11	R	11			
70	EF	1 1	RB	102		U	U								
70	EF	1 1	RB	91		U	U								
70	EF	1 1	RB	103		U	U		SC 12 1+		R	12			
70	EF	1 1	RB	99		U	U								
70	EF	1 1	RB	98		U	U								
70	EF	1 1	RB	82		U	U								
70	EF	1 1	RB	87		U	U								

COMMENTS

Site/Reach Card

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

Reach 2.0
Site # 71

ILP # 9302
ILP Map # 93M.009

Project Name Northwood Pulp and Timber Fish Inventory

Project Code 06-BABL-0103-0606-1998

REACH ATTRIBUTES

Sample Type R

Length (km) .98 Elevation (m): upstream 800 downstream 760 UTM (Zone/East/North/ method)
Gradient (%) 4.1 Order 1 Magnitude 1 BGC Zone SBS
Setting Valley Wall Bars ☒ None ☐ Side ☐ Diagonal ☐ Mid ☐ Span ☐ Braid
Open water A Wetland ☐ Mass Movement Not Specified Active Floodplain ☐
Confinement Occasionally Confined Exposed/Eroded Unknown, Not visible Width (m)
Coupling Decoupled Islands Not Specified Beaver Dam(s) ☐
Channel Pattern Sinuous Landuse Logging, with reserves LWD jam(s) ☐
Riparian Vegetation Coniferous Valley Flat Not Specified (C)ontinuous ☐
(D)iscontinuous ☐

SITE

Gazetted Name Local Name Unnamed
Survey Date 1998/09/23 Time 14:18 FIELD UTM(Zone/East/North/Method)
Crew JD/SW Access V2 MAP UTM (Zone/East/North/Method) GIS
Site Length (m) 100 Method HC Fish Card ☐ Incomplete ☐ NID Map 93M.010 NID # 71

CHANNEL

							Average	Method(s)
Channel Widths (m)	1.1	0.9	1.0	0.5	0.8	1.0	0.9	T
Wetted Widths (m)	0.0	0.0	0.0	0.0	0.0	0.0	n/a	T
Resid. Pool Depths (m)	0.00	0.00	0.00	0.00	0.00	0.00	n/a	T

No Vis.Ch. ☐	Dewatered ☐	Gradients (%)	2.0	2.0	2.0	AL ,
Intermittent ☒	Tributaries ☐	Bankfull Depth (m)	0.1	0.1	0.1	T

Stage ☒ Low
☐ Med.
☐ High

COVER -		Total	Moderate	LWD	Few	Dist.	Evenly Distributed
SWD	LWD	Boulder	Cutbank	Deep Pool	Over Veg	Instream Veg	
Sub-Dominant	Sub-Dominant	None	None	None	Dominant	Trace	

Crown Closure
21-40%

Instream Vegetation
☐ None ☒ Moss
☐ Algae ☐ Vasc.

LEFT BANK

Shape Sloping (gradual or shallow sloping)
Riparian Veg. Mixed C/D
Riparian Stage Young forest

Texture ☒ Fines ☐ Gravel ☐ Cobble
☐ Boulder ☐ Rock ☐ Man Made

RIGHT BANK

Shape Sloping (gradual or shallow sloping)
Riparian Veg. Mixed C/D
Riparian Stage Young forest

Texture ☒ Fines ☐ Gravel ☐ Cobble
☐ Boulder ☐ Rock ☐ Man Made

WATER

Temperature Method T4 pH Method P2 EMS #
Conductivity Method S2 Turbidity ☐ Turbid ☐ Medium ☐ Light ☐ Clear Method GE

MORPHOLOGY

BED Dominant Fines D95(cm) (only 5%larger) 0.1
MATERIAL Subdominant Not Applicable (same as Dominant) D (cm) (moveable) 0.1

Channel Pattern Sinuous
Coupling Decoupled
Confinement Unconfined
Islands None

Morphology Code
RP

Beaver Dam(s) ☐ O1
Eroding Bank(s) ☐ B2
LWD Jam(s) ☐ D3
Sediment Wedges ☐ S3
Bars
☒ None ☐ Mid
☐ Side ☐ Span
☐ Diag. ☐ Braid

Site/Reach Card

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

Reach 2.0

ILP # 9302

Site # 71

ILP Map # 93M.009

Project Name Northwood Pulp and Timber Fish Inventory

Project Code 06-BABL-0103-0606-1998

FEATURES**HABITAT QUALITY**

FSZs

Side Chan ☐Flood/Beaver ☐Tribes ☐Flood Chan ☐Slough ☐**Name****Comments**

Rearing Habitat

Poor rearing habitat - lack of flow and poor habitat

Spawning Habitat

Poor spawning habitat

PHOTO DOCUMENTATION

Film	Compact Disc	Lens / Dir.	Comments
Roll 15	Fr 31 CD 274	Im 57 STD U	
Roll 15	Fr 32 CD 274	Im 58 STD D	

WILDLIFE**COMMENTS****Form****Section****Comments**

SITE

CHANNEL

Fish accessible - but unlikely fish present

Site/Reach Card

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

Reach 2.0
Site # 72

ILP # 11308
ILP Map # 93M.010

Project Name Northwood Pulp and Timber Fish Inventory

Project Code 06-BABL-0103-0606-1998

REACH ATTRIBUTES

Sample Type R

Length (km) .30 Elevation (m): upstream 850 downstream 833 UTM (Zone/East/North/ method)
Gradient (%) 5.7 Order 1 Magnitude 1 BGC Zone SBS
Setting Valley Wall Bars ☒ None ☐ Side ☐ Diagonal ☐ Mid ☐ Span ☐ Braid
Open water A Wetland ☐ Mass Movement Not Specified Active Floodplain ☐
Confinement Occasionally Confined Exposed/Eroded Unknown, Not visible Width (m)
Coupling Decoupled Islands NONE Beaver Dam(s) ☐
Channel Pattern Sinuous Landuse Logging, with reserves LWD jam(s) ☐
Riparian Vegetation NONE Valley Flat Not Specified (C)ontinuous ☐
(D)iscontinuous ☐

SITE

Gazetted Name Local Name Unnamed
Survey Date 1998/09/23 Time 15:00 FIELD UTM(Zone/East/North/Method)
Crew JD/SW Access V2 MAP UTM (Zone/East/North/Method) GIS
Site Length (m) 100 Method HC Fish Card ☐ Incomplete ☐ NID Map 93M.010 NID # 72

CHANNEL

							Average	Method(s)
Channel Widths (m)	1.1	1.3	1.0	0.9	1.0	1.1	1.1	T
Wetted Widths (m)	0.0	0.0	0.0	0.0	0.0	0.0	n/a	T
Resid. Pool Depths (m)	0.00	0.00	0.00	0.00	0.00	0.00	n/a	T

No Vis.Ch. ☐	Dewatered ☐	Gradients (%)	6.0	5.0	5.5	C ,
Intermittent ☒	Tributaries ☐	Bankfull Depth (m)	0.2	0.3	0.2	T

Stage ☒ Low
☐ Med.
☐ High

COVER -		Total	Abundant	LWD	Few	Dist.	Evenly Distributed
SWD	LWD	Boulder	Cutbank	Deep Pool	Over Veg	Instream Veg	
Sub-Dominant	Trace	None	None	Trace	Dominant	Trace	

Crown Closure
1-20%

Instream Vegetation
☐ None ☒ Moss
☐ Algae ☒ Vasc.

LEFT BANK

Shape V - shaped (steep sloping or vertical)
Riparian Veg. Coniferous
Riparian Stage Shrub/herb stage

Texture ☒ Fines ☐ Gravel ☐ Cobble
☐ Boulder ☐ Rock ☐ Man Made

RIGHT BANK

Shape V - shaped (steep sloping or vertical)
Riparian Veg. Coniferous
Riparian Stage Shrub/herb stage

Texture ☒ Fines ☐ Gravel ☐ Cobble
☐ Boulder ☐ Rock ☐ Man Made

WATER

Temperature Method T4 pH Method P2 EMS #
Conductivity Method S2 Turbidity ☐ Turbid ☐ Medium ☐ Light ☐ Clear Method GE

MORPHOLOGY

BED Dominant Fines D95(cm) (only 5% larger) 12
MATERIAL Subdominant Gravels D (cm) (moveable) 4
Channel Pattern Sinuous
Coupling Decoupled
Confinement Occasionally Confined
Islands None

Morphology Code
RP

Beaver Dam(s) ☐ O1
Eroding Bank(s) ☐ B2
LWD Jam(s) ☐ D3
Sediment Wedges ☐ S3
Bars
☒ None ☐ Mid
☐ Side ☐ Span
☐ Diag. ☐ Braid

Site/Reach Card

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

Reach 2.0

ILP # 11308

Site # 72

ILP Map # 93M.010

Project Name Northwood Pulp and Timber Fish Inventory

Project Code 06-BABL-0103-0606-1998

FEATURES

Type CV Height .5 Method GE Length 10 Method GE

Comments Culvert. Photo did not turn out. No CD image.

Photograph Roll 15 Frame 36 UTM (Zone/East/North/ Method)

Type CV Height .5 Method GE Length 10 Method GE

Comments

Photograph Roll 16 Frame 1 UTM (Zone/East/North/ Method)

HABITAT QUALITY

FSZs

Side Chan ☐Flood/Beaver ☐Tribes ☐Flood Chan ☐Slough ☐

Name

Comments

Rearing Habitat

Poor rearing habitat

Spawning Habitat

Poor spawning habitat

PHOTO DOCUMENTATION

Film	Compact Disc	Lens / Dir.	Comments
Roll 15 Fr 36 CD	Im	STD U	Culvert. Photo taken. Photo did not turn out. No CD image.
Roll 16 Fr 1 CD 274	Im 59	STD D	Culvert.
Roll 16 Fr 2 CD 274	Im 60	STD U	
Roll 16 Fr 3 CD 274	Im 61	STD D	

WILDLIFE**COMMENTS**

Form	Section	Comments
SITE	CHANNEL	Channel has been completely disturbed by previous logging

Site/Reach Card

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

Reach 2.0
Site # 73

ILP # 9317
ILP Map # 93M.009

Project Name Northwood Pulp and Timber Fish Inventory

Project Code 06-BABL-0103-0606-1998

REACH ATTRIBUTES

Sample Type B

Length (km) 1.20 Elevation (m): upstream 830 downstream 750 UTM (Zone/East/North/ method)
Gradient (%) 6.7 Order 3 Magnitude 16 BGC Zone SBS
Setting Valley Wall Bars ☒ None ☐ Side ☐ Diagonal ☐ Mid ☐ Span ☐ Braid
Open water A Wetland ☐ Mass Movement Not Specified Active Floodplain ☐
Confinement Occasionally Confined Exposed/Eroded Unknown, Not visible Width (m)
Coupling Decoupled Islands NONE Beaver Dam(s) ☐
Channel Pattern Regular Meanders Landuse Logging LWD jam(s) ☐
Riparian Vegetation NONE Valley Flat Not Specified (C)ontinuous ☐
(D)iscontinuous ☐

SITE

Gazetted Name Local Name Unnamed
Survey Date 1998/09/24 Time 09:59 FIELD UTM(Zone/East/North/Method)
Crew SW/JD Access V4 MAP UTM (Zone/East/North/Method) GIS
Site Length (m) 350 Method HC Fish Card ☒ Incomplete ☐ NID Map 93M.009 NID # 73

CHANNEL

							Average	Method(s)
Channel Widths (m)	3.6	3.7	3.2	3.9	3.0	3.2	3.4	T
Wetted Widths (m)	2.0	1.8	1.5	2.1	1.4	1.3	1.7	T
Resid. Pool Depths (m)	0.16	0.23	0.11	0.13	0.17	0.20	0.17	T

No Vis.Ch. ☐	Dewatered ☐	Gradients (%)	8.0	9.0	8.5	C ,	
Intermittent ☐	Tributaries ☐	Bankfull Depth (m)	0.5	0.4	0.6	0.5	T

Stage	COVER -	Total	Abundant	LWD	Abundant	Dist.	Evenly Distributed
☒ Low	SWD	LWD	Boulder	Cutbank	Deep Pool	Over Veg	Instream Veg
☐ Med.	Trace	Sub-Dominant	Dominant	Trace	Sub-Dominant	Trace	Trace
☐ High							

Crown Closure
21-40%

LEFT BANK
Shape Sloping (gradual or shallow sloping)
Riparian Veg. Deciduous
Riparian Stage Pole-sapling stage

RIGHT BANK
Shape Overhanging bank
Riparian Veg. Deciduous
Riparian Stage Pole-sapling stage

Instream Vegetation
☐ None ☒ Moss
☐ Algae ☐ Vasc.

Texture ☐ Fines ☐ Gravel ☒ Cobble
☒ Boulder ☐ Rock ☐ Man Made

Texture ☐ Fines ☐ Gravel ☒ Cobble
☒ Boulder ☐ Rock ☐ Man Made

WATER

Temperature 6.5 Method T4 pH 7.3 Method P2 EMS #
Conductivity 83 Method S2 Turbidity ☐ Turbid ☐ Medium ☐ Light ☒ Clear Method GE

MORPHOLOGY

BED Dominant Cobble D95(cm) (only 5%larger) 65
MATERIAL Subdominant Boulders D (cm) (moveable) 35

Channel Pattern Irregular, Wandering
Coupling Partially Coupled
Confinement Occasionally Confined
Islands None

Morphology Code
CP

Beaver Dam(s) ☐ O1
Eroding Bank(s) ☒ B2 ☒ None ☐ Mid
LWD Jam(s) ☐ D3 ☐ Side ☐ Span
Sediment Wedges ☐ S3 ☐ Diag. ☐ Braid

Site/Reach Card

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

Reach 2.0
Site # 73ILP # 9317
ILP Map # 93M.009

Project Name Northwood Pulp and Timber Fish Inventory

Project Code 06-BABL-0103-0606-1998

FEATURES

Type CV Height .4 Method GE Length 15 Method GE

Comments upstream at culvert

Photograph Roll 16 Frame 7 UTM (Zone/East/North/ Method)

Type CV Height .4 Method GE Length 15 Method GE

Comments stream to right of culvert

Photograph Roll 16 Frame 8 UTM (Zone/East/North/ Method)

HABITAT QUALITY

FSZs

Side Chan ☐Flood/Beaver ☐Tribes. ☐Flood Chan ☐Slough ☐**Name** **Comments**

Rearing Habitat Good rearing potential - lots of small pools and boulder habitats

Spawning Habitat Poor spawning habitat - limited gravel for spawning

PHOTO DOCUMENTATION

Film	Compact Disc	Lens / Dir.	Comments
Roll 16 Fr 4 CD 274 Im 62 STD D	Stream washed out old road		
Roll 16 Fr 5 CD Im STD U	Upstream cascade/pools. Photo did not turn out. No CD image.		
Roll 16 Fr 6 CD 274 Im 63 STD D	downstream cascade/pools		
Roll 16 Fr 7 CD 274 Im 64 STD NS	upstream at culvert		
Roll 16 Fr 8 CD 274 Im 65 STD NS	stream to right of culvert		

WILDLIFE**COMMENTS**

Form	Section	Comments
SITE	CHANNEL	Stream has washed old road out at crossing - culvert too small and is not in use - new channel cut around CV

FDIS Fish Form

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

Reach # 2.0

ILP # 9317

ILP Map # 93M.009

Project Name Northwood Pulp and Timber Fish Inventory

Project Code 06-BABL-0103-0606-1998

Lake / Stream	S	SITE / METHOD				Waterbody ID
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Permit 34770-20 Date: 1998/09/24 To: 1998/09/24 Crew: SW/JD Resample ☒

Site	NID MAP	NID	UTM:Zone/East/North/ Mthd	MTD/NO	Temp	Cond	Turbid	Comment
73	93M.009	73		EF 1	6.5	83	C	

GEAR SETTINGS

Site	MTD/NO	H/P	Date In	Time In	Date Out	Time Out	Comment
73	EF 1	1	1998/09/24	09:59	1998/09/24	10:32	

NET/TRAP SPECIFICATIONS

ELECTROFISHER SPECIFICATIONS

Site	MTD/NO	H/P	Encl	Sec.	Length	Width	Volts	Hz	Pulse	Make	Model
73	EF 1	1	O	308	300.0	3.0	600	60	5	SR	12 B POW

FISH SUMMARY

Site	MTD/NO	H/P	Species	Stage	Age	Total #	Lgth (Min/Max)	Activity	Comment
73	EF	1 1	NFC			0			

INDIVIDUAL FISH DATA

COMMENTS

Section	Comments
WATERBODY	Suggest a resample of reach 1 to check for possible barriers to upstream migration

Site/Reach Card

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

Reach 2.0
Site # 74

ILP # 9312
ILP Map # 93M.009

Project Name Northwood Pulp and Timber Fish Inventory

Project Code 06-BABL-0103-0606-1998

REACH ATTRIBUTES

Sample Type R

Length (km) 1.80 Elevation (m): upstream 820 downstream 745 UTM (Zone/East/North/ method)
Gradient (%) 4.2 Order 2 Magnitude 5 BGC Zone SBS
Setting Valley Wall Bars ☒ None ☐ Side ☐ Diagonal ☐ Mid ☐ Span ☐ Braid
Open water A Wetland ☐ Mass Movement Low or no impact to channel; Active Floodplain ☐
Confinement Occasionally Confined Exposed/Eroded Unknown, Not visible Width (m)
Coupling Decoupled Islands NONE Beaver Dam(s) ☐
Channel Pattern Regular Meanders Landuse None/natural LWD jam(s) ☐
Riparian Vegetation Mixed C/D Valley Flat Not Specified (C)ontinuous ☐
(D)iscontinuous ☐

SITE

Gazetted Name Local Name Unnamed
Survey Date 1998/09/24 Time 11:21 FIELD UTM(Zone/East/North/Method)
Crew SW/JD Access V2 MAP UTM (Zone/East/North/Method) GIS
Site Length (m) 250 Method HC Fish Card ☒ Incomplete ☐ NID Map 93M.009 NID # 74

CHANNEL

							Average	Method(s)
Channel Widths (m)	2.6	2.4	2.3	2.0	2.5	2.6	2.4	T
Wetted Widths (m)	0.4	0.5	0.6	0.8	0.5	0.6	0.6	T
Resid. Pool Depths (m)	0.11	0.03	0.13	0.08	0.17	0.12	0.11	T

No Vis.Ch. ☐	Dewatered ☐	Gradients (%)	4.0	6.0	5.0	C ,
Intermittent ☐	Tributaries ☐	Bankfull Depth (m)	0.4	0.5	0.5	T

Stage ☒ Low
☐ Med.
☐ High

COVER -		Total	Abundant	LWD	Few	Dist.	Clumped
SWD	LWD	Boulder	Cutbank	Deep Pool	Over Veg	Instream Veg	
Trace	Trace	Dominant	Sub-Dominant	Sub-Dominant	Trace	Trace	

Crown Closure
21-40%

Instream Vegetation
☐ None ☒ Moss
☐ Algae ☐ Vasc.

LEFT BANK

Shape Overhanging bank
Riparian Veg. Deciduous
Riparian Stage Pole-sapling stage

Texture ☐ Fines ☒ Gravel ☒ Cobble
☐ Boulder ☐ Rock ☐ Man Made

RIGHT BANK

Shape Overhanging bank
Riparian Veg. Shrubs
Riparian Stage Shrub/herb stage

Texture ☒ Fines ☒ Gravel ☐ Cobble
☐ Boulder ☐ Rock ☐ Man Made

WATER

Temperature 6.5 Method T4 pH 7.6 Method P2 EMS #
Conductivity 121 Method S2 Turbidity ☐ Turbid ☐ Medium ☐ Light ☒ Clear Method GE

MORPHOLOGY

BED Dominant Cobble D95(cm) (only 5% larger) 40
MATERIAL Subdominant Gravels D (cm) (moveable) 18

Channel Pattern Irregular, Wandering
Coupling Coupled
Confinement Confined
Islands None

Morphology Code
RP

Beaver Dam(s) ☐ O1
Eroding Bank(s) ☒ B2 ☐ None ☐ Mid
LWD Jam(s) ☒ D3 ☒ Side ☐ Span
Sediment Wedges ☐ S3 ☐ Diag. ☐ Braid

Site/Reach Card

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

Reach 2.0

ILP # 9312

Site # 74

ILP Map # 93M.009

Project Name Northwood Pulp and Timber Fish Inventory

Project Code 06-BABL-0103-0606-1998

FEATURES

Type CV Height 1.6 Method GE Length 9 Method GE

Comments Wooden box culvert 4 X 10

Photograph Roll 16 Frame 9 UTM (Zone/East/North/ Method)

HABITAT QUALITY

FSZs

Side Chan ☐Flood/Beaver ☐Tribes ☐Flood Chan ☐Slough ☐

Name

Comments

Rearing Habitat

Fair rearing habitat - pools are too shallow due to sediment introduction

Spawning Habitat

Good spawning habitat - lots of gravel and flows

PHOTO DOCUMENTATION

Film	Compact Disc	Lens / Dir.	Comments
Roll 16 Fr 10 CD 274 Im 67 STD NS	Eroded bank - ditchline runs into stream - sediment introduction		
Roll 16 Fr 11 CD 274 Im 68 STD U			
Roll 16 Fr 12 CD 274 Im 69 STD D			
Roll 16 Fr 9 CD 274 Im 66 STD NS	Wooden box culvert 4 X 10		

WILDLIFE**COMMENTS**

Form	Section	Comments
SITE	CHANNEL	Fines have been introduced by ditchline and road crossing

FDIS Fish Form

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

Reach # 2.0

ILP # 9312

ILP Map # 93M.009

Project Name Northwood Pulp and Timber Fish Inventory

Project Code 06-BABL-0103-0606-1998

Lake / Stream		S		SITE / METHOD				Waterbody ID			
Permit	34770-20	Date:	1998/09/24	To:	1998/09/24	Crew:	SW/JD	Resample ☐			
Site	NID MAP	NID	UTM:Zone/East/North/ Mthd				MTD/NO	Temp	Cond	Turbid	Comment
74	93M.009	74					EF 1	6.5	121	C	

GEAR SETTINGS								
Site	MTD/NO	H/P	Date In	Time In	Date Out	Time Out	Comment	
74	EF 1	1	1998/09/24	11:21	1998/09/24	11:57		

NET/TRAP SPECIFICATIONS											
ELECTROFISHER SPECIFICATIONS											
Site	MTD/NO	H/P	Encl	Sec.	Length	Width	Volts	Hz	Pulse	Make	Model
74	EF 1	1	O	219	200.0	2.2	500	60	5	SR	12 B POW

FISH SUMMARY										
Site	MTD/NO	H/P	Species	Stage	Age	Total #	Lgth (Min/Max)	Activity	Comment	
74	EF	1 1	RB	J		3	48 53	R		

INDIVIDUAL FISH DATA													
Site	MTD/NO	H/P	Species	Length	Weight	Age			Vch#	Genetic	Photograph	Roll Fr.	Comment
				(mm)	(g)	Sex	Mat	Str / Smpl# / Age		Str/ Smpl#			
74	EF	1	1	RB	48		U	U				16 13	
74	EF	1	1	RB	53		U	U				16 13	
74	EF	1	1	RB	51		U	U				16 13	

COMMENTS	
Section	Comments
WATERBODY	Low densities of RB juveniles - no adults caught

Site/Reach Card

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

Reach 3.0
Site # 75

ILP # 9312
ILP Map # 93M.009

Project Name Northwood Pulp and Timber Fish Inventory

Project Code 06-BABL-0103-0606-1998

REACH ATTRIBUTES

Sample Type B

Length (km) 1.04 Elevation (m): upstream 870 downstream 820 UTM (Zone/East/North/ method)
Gradient (%) 4.8 Order 2 Magnitude 4 BGC Zone SBS
Setting Not Specified Bars ☒ None ☐ Side ☐ Diagonal ☐ Mid ☐ Span ☐ Braid
Open water A Wetland ☐ Mass Movement Not Specified Active Floodplain ☐
Confinement Occasionally Confined Exposed/Eroded Not Specified Width (m)
Coupling Partially Coupled Islands NONE Beaver Dam(s) ☐
Channel Pattern Regular Meanders Landuse Not Specified LWD jam(s) ☐
Riparian Vegetation Not Specified Valley Flat Not Specified (C)ontinuous ☐
(D)iscontinuous ☐

SITE

Gazetted Name Local Name Unnamed
Survey Date 1998/09/24 Time 12:36 FIELD UTM(Zone/East/North/Method)
Crew SW/JD Access V4 MAP UTM (Zone/East/North/Method) GIS
Site Length (m) 200 Method HC Fish Card ☒ Incomplete ☐ NID Map 93M.009 NID # 75

CHANNEL

							Average	Method(s)
Channel Widths (m)	1.6	1.7	1.4	1.4	1.6	1.7	1.6	T
Wetted Widths (m)	1.0	0.5	0.6	0.6	0.8	0.7	0.7	T
Resid. Pool Depths (m)	0.22	0.23	0.16	0.17	0.25	0.15	0.20	T
No Vis.Ch. ☐							Gradients (%) 6.0 7.0 6.5	C ,
Intermittent ☐							Bankfull Depth (m) 0.4 0.4 0.4	T

Dewatered ☐
Tributaries ☐

Stage ☐ Low
☒ Med.
☐ High

COVER -		Total	Abundant	LWD	Abundant	Dist.	Evenly Distributed
SWD	LWD	Boulder	Cutbank	Deep Pool	Over Veg	Instream Veg	
Trace	Sub-Dominant	Trace	Dominant	Sub-Dominant	Sub-Dominant	Trace	

Crown Closure
1-20%

Instream Vegetation

☐ None ☒ Moss
☐ Algae ☒ Vasc.

LEFT BANK

Shape Overhanging bank
Riparian Veg. Deciduous
Riparian Stage Pole-sapling stage

Texture ☒ Fines ☐ Gravel ☐ Cobble
☐ Boulder ☐ Rock ☐ Man Made

RIGHT BANK

Shape Overhanging bank
Riparian Veg. Deciduous
Riparian Stage Pole-sapling stage

Texture ☒ Fines ☐ Gravel ☐ Cobble
☐ Boulder ☐ Rock ☐ Man Made

WATER

Temperature 6.5 Method T4 pH 7.4 Method P2 EMS #
Conductivity 119 Method S2 Turbidity ☐ Turbid ☐ Medium ☐ Light ☒ Clear Method GE

MORPHOLOGY

BED Dominant Cobble
MATERIAL Subdominant Gravels

D95(cm) (only 5% larger) 70
D (cm) (moveable) 15

Channel Pattern Irregular, Wandering
Coupling Partially Coupled
Confinement Frequently Confined
Islands None

Morphology Code
CP

Beaver Dam(s) ☐ O1
Eroding Bank(s) ☐ B2 ☒ None ☐ Mid
LWD Jam(s) ☐ D3 ☐ Side ☐ Span
Sediment Wedges ☐ S3 ☐ Diag. ☐ Braid

Site/Reach Card

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

Reach 3.0

ILP # 9312

Site # 75

ILP Map # 93M.009

Project Name Northwood Pulp and Timber Fish Inventory

Project Code 06-BABL-0103-0606-1998

FEATURES

Type CV Height .4 Method GE Length 8 Method GE

Comments Well placed for fish access

Photograph Roll 16 Frame 14 UTM (Zone/East/North/ Method)

HABITAT QUALITY

FSZs

Side Chan ☐Flood/Beaver ☐Tribes ☐Flood Chan ☐Slough ☐

Name

Comments

Rearing Habitat

Excellent rearing habitat. LWD and cover abundant. Many deep pools and undercut banks.

Spawning Habitat

Poor spawning habitat. Mostly pool habitat. Some gravel present.

PHOTO DOCUMENTATION

Film	Compact Disc	Lens / Dir.	Comments
Roll 16 Fr 15 CD 274 Im 72 STD U	LWD in stream		
Roll 16 Fr 17 CD 274 Im 74 STD D	Cascade pools		
Roll 16 Fr 14 CD 274 Im 71 STD NS	Culvert well placed for fish access.		

WILDLIFE**COMMENTS**

Form	Section	Comments
SITE	CHANNEL	

FDIS Fish Form

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

Reach # 3.0

ILP # 9312

ILP Map # 93M.009

Project Name Northwood Pulp and Timber Fish Inventory

Project Code 06-BABL-0103-0606-1998

Lake / Stream	S	SITE / METHOD						Waterbody ID	
---------------	---	---------------	--	--	--	--	--	--------------	--

Permit 34770-20 Date: 1998/09/24 To: 1998/09/24 Crew: SW/JD Resample ☐

Site	NID MAP	NID	UTM:Zone/East/North/ Mthd	MTD/NO	Temp	Cond	Turbid	Comment
75	93M.009	75		EF 1	7.5	119	C	

GEAR SETTINGS

Site	MTD/NO	H/P	Date In	Time In	Date Out	Time Out	Comment
75	EF 1	1	1998/09/24	12:40	1998/09/24	13:12	

NET/TRAP SPECIFICATIONS

ELECTROFISHER SPECIFICATIONS

Site	MTD/NO	H/P	Encl	Sec.	Length	Width	Volts	Hz	Pulse	Make	Model
75	EF 1	1	O	248	200.0	1.5	500	60	5	SR	12 B POW

FISH SUMMARY

Site	MTD/NO	H/P	Species	Stage	Age	Total #	Lgth (Min/Max)	Activity	Comment
75	EF	1 1	RB	A		1	176 176	R	

INDIVIDUAL FISH DATA

Site	MTD/NO	H/P	Species	Length (mm)	Weight (g)	Sex	Mat	Str / Smpl# / Age	Vch#	Genetic Str/ Smpl#	Photograph Roll Fr.	Comment
75	EF	1 1	RB	176		U	M	SC 015 3+			16 16	Nice fish!

COMMENTS

Section WATERBODY Comments Low densities of adult RB

Site/Reach Card

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

Reach 14.0

ILP # 1329

Site # 76

ILP Map # 93L.090

Project Name Northwood Pulp and Timber Fish Inventory

Project Code 06-BABL-0103-0606-1998

REACH ATTRIBUTES

Sample Type B

Length (km) .51 Elevation (m): upstream 1164 downstream 1148 UTM (Zone/East/North/ method)
 Gradient (%) 3.1 Order 2 Magnitude 2 BGC Zone SBS
 Setting Valley Wall Bars ☒ None ☐ Side ☐ Diagonal ☐ Mid ☐ Span ☐ Braid
 Open water A Wetland ☐ Mass Movement Low or no impact to channel; Active Floodplain ☐
 Confinement Occasionally Confined Exposed/Eroded Not Specified Width (m)
 Coupling Decoupled Islands Not Specified Beaver Dam(s) ☐
 Channel Pattern Straight Landuse None/natural LWD jam(s) ☐
 Riparian Vegetation Coniferous Valley Flat Not Specified (C)ontinuous ☐
 (D)iscontinuous ☐

SITE

Gazetted Name Local Name Unnamed
 Survey Date 1998/09/24 Time 14:22 FIELD UTM(Zone/East/North/Method)
 Crew SW/JD Access V2 MAP UTM (Zone/East/North/Method) GIS
 Site Length (m) 250 Method HC Fish Card ☒ Incomplete ☐ NID Map 93K.091 NID # 76

CHANNEL

							Average	Method(s)
Channel Widths (m)	2.0	1.1	1.7	1.8	1.5	1.5	1.6	T
Wetted Widths (m)	0.4	0.3	0.4	0.3	0.5	0.4	0.4	T
Resid. Pool Depths (m)	0.08	0.09	0.11	0.02	0.05	0.07	0.07	T

No Vis.Ch. ☐	Dewatered ☐	Gradients (%)	3.0	4.0	3.5	C ,
Intermittent ☐	Tributaries ☐	Bankfull Depth (m)	0.4	0.3	0.4	T

Stage ☒ Low
☐ Med.
☐ High

COVER -		Total	Abundant	LWD	Abundant	Dist.	Evenly Distributed
SWD	LWD	Boulder	Cutbank	Deep Pool	Over Veg	Instream Veg	
Trace	Sub-Dominant	Dominant	Sub-Dominant	Trace	Trace	Trace	

Crown Closure
 21-40%

Instream Vegetation

☐ None ☒ Moss
☐ Algae ☒ Vasc.

LEFT BANK

Shape Overhanging bank
 Riparian Veg. Coniferous
 Riparian Stage Mature forest

Texture ☒ Fines ☐ Gravel ☐ Cobble
☐ Boulder ☐ Rock ☐ Man Made

RIGHT BANK

Shape Overhanging bank
 Riparian Veg. Coniferous
 Riparian Stage Mature forest

Texture ☒ Fines ☐ Gravel ☐ Cobble
☐ Boulder ☐ Rock ☐ Man Made

WATER

Temperature 6.5 Method T4 pH 7.4 Method P2 EMS #
 Conductivity 71 Method S2 Turbidity ☐ Turbid ☐ Medium ☐ Light ☒ Clear Method GE

MORPHOLOGY

BED Dominant Boulders
 MATERIAL Subdominant Cobble
 Channel Pattern Irregular, Wandering
 Coupling Decoupled
 Confinement Occasionally Confined
 Islands None

Morphology Code
 RP

D95(cm) (only 5%larger) 35
 D (cm) (moveable) 5

Beaver Dam(s) ☐ O1
 Eroding Bank(s) ☐ B2 ☒ None ☐ Mid
 LWD Jam(s) ☐ D3 ☐ Side ☐ Span
 Sediment Wedges ☐ S3 ☐ Diag. ☐ Braid

Site/Reach Card

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

Reach 14.0

ILP # 1329

Site # 76

ILP Map # 93L.090

Project Name Northwood Pulp and Timber Fish Inventory

Project Code 06-BABL-0103-0606-1998

FEATURES**HABITAT QUALITY**

FSZs

Side Chan ☐Flood/Beaver ☐Tribes ☐Flood Chan ☐Slough ☐

Name	Comments
Rearing Habitat	Poor rearing habitat - low flows limit rearing potential
Spawning Habitat	Spawning potential is poor - no spawning gravel

PHOTO DOCUMENTATION

Film	Compact Disc	Lens / Dir.	Comments
Roll 16 Fr 18 CD 274 Im 75 STD D	Cobble boulder habitat		
Roll 16 Fr 19 CD 274 Im 76 STD U	Cobble boulder habitat		

WILDLIFE**COMMENTS**

Form	Section	Comments
SITE	CHANNEL	Very low flows - may be a fish stream if lake upstream has fish. Upstream lake was sampled and found to be NFC - no access from downstream reaches. Classify as S6.

FDIS Fish Form

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

Reach # 14.0

ILP # 1329

ILP Map # 93L.090

Project Name Northwood Pulp and Timber Fish Inventory

Project Code 06-BABL-0103-0606-1998

Lake / Stream	S	SITE / METHOD		Waterbody ID	
---------------	---	---------------	--	--------------	--

Permit 34770-20 Date: 1998/09/24 To: 1998/09/24 Crew: SW/JD Resample ☐

Site	NID MAP	NID	UTM:Zone/East/North/ Mthd	MTD/NO	Temp	Cond	Turbid	Comment
76	93K.091	76		EF 1	6.5	71	C	

GEAR SETTINGS

Site	MTD/NO	H/P	Date In	Time In	Date Out	Time Out	Comment
76	EF 1	1	1998/09/24	14:23	1998/09/24	15:06	

NET/TRAP SPECIFICATIONS

ELECTROFISHER SPECIFICATIONS

Site	MTD/NO	H/P	Encl	Sec.	Length	Width	Volts	Hz	Pulse	Make	Model
76	EF 1	1	O	250	250.0	1.6	700	60	5	SR	12 B POW

FISH SUMMARY

Site	MTD/NO	H/P	Species	Stage	Age	Total #	Lgth (Min/Max)	Activity	Comment
76	EF	1	1	NFC		0			

INDIVIDUAL FISH DATA

COMMENTS

Section	Comments
WATERBODY	No fish caught - very low flows only. Pools were shocked - riffles too shallow to shock.

Site/Reach Card

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

Reach 10.0
Site # 77

ILP # 9303
ILP Map # 93M.009

Project Name Northwood Pulp and Timber Fish Inventory

Project Code 06-BABL-0103-0606-1998

REACH ATTRIBUTES						Sample Type	B
Length (km)	1.67	Elevation (m): upstream	1100	downstream	1035	UTM (Zone/East/North/ method)	
Gradient (%)	3.9	Order	1	Magnitude	1	BGC Zone	SBS
Setting	Valley Wall		Bars		☒ None	☐ Side	☐ Diagonal
					☐ Mid	☐ Span	☐ Braid
Open water	A	Wetland	☐	Mass Movement	Not Specified		Active Floodplain
Confinement	Frequently Confined		Exposed/Eroded		Unknown, Not visible		Width (m)
Coupling	Decoupled		Islands		Not Specified		Beaver Dam(s)
Channel Pattern	Sinuous		Landuse		None/natural		LWD jam(s)
Riparian Vegetation	Mixed C/D		Valley Flat		Not Specified		(C)ontinuous
							(D)iscontinuous

SITE			
Gazetted Name	Local Name Unnamed		
Survey Date	1998/09/25	Time	09:33
Crew	JD/SW	Access	H
		MAP UTM (Zone/East/North/Method)	GIS
Site Length (m)	200	Method	HC
		Fish Card	☒ Incomplete
		NID Map	93M.010
		NID #	77

CHANNEL							Average	Method(s)
Channel Widths (m)	1.5	1.9	1.3	1.3	1.7	1.9	1.6	T
Wetted Widths (m)	0.5	0.4	0.6	0.6	0.3	0.9	0.6	T
Resid. Pool Depths (m)	0.02	0.05	0.01	0.05	0.08	0.03	0.04	T
No Vis.Ch.	☐	Dewatered	☐	Gradients (%)			3.0	4.0
Intermittent	☐	Tributaries	☐	Bankfull Depth (m)			0.1	0.2
							0.1	0.1
							3.5	AL ,
							0.1	T

Stage	☒ Low	COVER -		Total	Moderate	LWD	Few	Dist.	Evenly Distributed
	☐ Med.	SWD	LWD	Boulder	Cutbank	Deep Pool	Over Veg	Instream Veg	
	☐ High	Trace	Sub-Dominant	Trace	Dominant	Trace	Sub-Dominant	Trace	
Crown Closure	41-70%	LEFT BANK			RIGHT BANK				
Instream Vegetation		Shape Sloping (gradual or shallow sloping)			Shape Undercut				
☐ None	☒ Moss	Riparian Veg. Coniferous			Riparian Veg. Coniferous				
☐ Algae	☐ Vasc.	Riparian Stage Mature forest			Riparian Stage Mature forest				
		Texture	☒ Fines	☐ Gravel	☐ Cobble	Texture	☒ Fines	☐ Gravel	☐ Cobble
			☐ Boulder	☐ Rock	☐ Man Made		☐ Boulder	☐ Rock	☐ Man Made

WATER			
Temperature	5.6	Method	T4
		pH	7.6
Conductivity	224	Method	S2
		Turbidity	☐ Turbid
			☐ Medium
			☐ Light
			☒ Clear
		EMS #	GE

MORPHOLOGY			
BED	Dominant	Cobble	D95(cm) (only 5%larger)
MATERIAL	Subdominant	Fines	D (cm) (moveable)
Channel Pattern	Sinuous		45
Coupling	Decoupled		7
Confinement	Occasionally Confined		
Islands	None		
	Morphology Code		Beaver Dam(s)
	RP		☐ O1
			Eroding Bank(s)
			☐ B2
			LWD Jam(s)
			☐ D3
			Sediment Wedges
			☐ S3
			Bars
			☐ None
			☒ Mid
			☒ Side
			☐ Span
			☐ Diag.
			☐ Braid

Site/Reach Card

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

Reach 10.0

ILP # 9303

Site # 77

ILP Map # 93M.009

Project Name Northwood Pulp and Timber Fish Inventory

Project Code 06-BABL-0103-0606-1998

FEATURES**HABITAT QUALITY**

FSZs

Side Chan ☐Flood/Beaver ☐Tribes ☐Flood Chan ☐Slough ☐

Name	Comments
Rearing Habitat	Good rearing habitat
Spawning Habitat	Poor to fair spawning habitat

PHOTO DOCUMENTATION

Film	Compact Disc	Lens / Dir.	Comments
Roll 16 Fr 20 CD 274 Im 77 STD U			
Roll 16 Fr 21 CD 274 Im 78 STD D			

WILDLIFE**COMMENTS**

Form	Section	Comments
SITE	CHANNEL	One section of stream had width of 3 metres however on average stream widths of 1.3 to 1.9 m. No fish found - Reach 7 and 8 also sampled and no fish in these. Reach 4 fish bearing. S6 stream.

FDIS Fish Form

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

Reach # 10.0

ILP # 9303

ILP Map # 93M.009

Project Name Northwood Pulp and Timber Fish Inventory

Project Code 06-BABL-0103-0606-1998

Lake / Stream S		SITE / METHOD				Waterbody ID					
Permit	34770-20	Date:	1998/09/25	To:	1998/09/25	Crew:	JD/SW	Resample	☐		
Site	NID MAP	NID	UTM:Zone/East/North/ Mthd			MTD/NO	Temp	Cond	Turbid	Comment	
77	93M.010	77				EF 1	5.6	224	C		
GEAR SETTINGS											
Site	MTD/NO	H/P	Date In	Time In	Date Out	Time Out	Comment				
77	EF 1	1	1998/09/25	09:33	1998/09/25	09:45					
NET/TRAP SPECIFICATIONS											
ELECTROFISHER SPECIFICATIONS											
Site	MTD/NO	H/P	Encl	Sec.	Length	Width	Volts	Hz	Pulse	Make	Model
77	EF 1	1	O	120	100.0	1.0	500	60	5	SR	12 B POW
FISH SUMMARY											
Site	MTD/NO	H/P	Species	Stage	Age	Total #	Lgth (Min/Max)	Activity	Comment		
77	EF 1	1	NFC			0					
INDIVIDUAL FISH DATA											
COMMENTS											

Site/Reach Card

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

Reach 2.0
Site # 78

ILP # 11321
ILP Map # 93M.010

Project Name Northwood Pulp and Timber Fish Inventory

Project Code 06-BABL-0103-0606-1998

REACH ATTRIBUTES

Sample Type R

Length (km) .60 Elevation (m): upstream 1220 downstream 1070 UTM (Zone/East/North/ method)
Gradient (%) 25.0 Order 1 Magnitude 1 BGC Zone SBS
Setting Valley Wall Bars ☒ None ☐ Side ☐ Diagonal ☐ Mid ☐ Span ☐ Braid
Open water A Wetland ☐ Mass Movement Not Specified Active Floodplain ☐
Confinement Confined Exposed/Eroded Unknown, Not visible Width (m) 0
Coupling Not Specified Islands Not Specified Beaver Dam(s) ☐
Channel Pattern Straight Landuse None/natural LWD jam(s) ☐
Riparian Vegetation Mixed C/D Valley Flat Not Specified (C)ontinuous ☐
(D)iscontinuous ☐

SITE

Gazetted Name Local Name Unnamed
Survey Date 1998/09/25 Time 10:30 FIELD UTM(Zone/East/North/Method)
Crew JD/SW Access H MAP UTM (Zone/East/North/Method) GIS
Site Length (m) 100 Method HC Fish Card ☐ Incomplete ☐ NID Map 93M.010 NID # 78

CHANNEL

							Average	Method(s)
Channel Widths (m)	0.9	0.8	0.5	0.7	0.7	0.7	0.7	T
Wetted Widths (m)	0.0	0.0	0.0	0.0	0.0	0.0	n/a	T
Resid. Pool Depths (m)	0.00	0.00	0.00	0.00	0.00	0.00	n/a	T

No Vis.Ch. ☐ Dewatered ☐
Intermittent ☒ Tributaries ☐
Gradients (%) 24.0 36.0 30.0 C ,
Bankfull Depth (m) 0.1 0.1 T

Stage ☒ Low
☐ Med.
☐ High

COVER -		Total	Abundant	LWD	Few	Dist.	Clumped
SWD	LWD	Boulder	Cutbank	Deep Pool	Over Veg	Instream Veg	
Trace	Trace	Trace	None	None	Dominant	Trace	

Crown Closure
21-40%

Instream Vegetation

☐ None ☒ Moss
☐ Algae ☐ Vasc.

LEFT BANK

Shape V - shaped (steep sloping or vertical)
Riparian Veg. Coniferous
Riparian Stage Mature forest

Texture ☒ Fines ☐ Gravel ☐ Cobble
☐ Boulder ☐ Rock ☐ Man Made

RIGHT BANK

Shape V - shaped (steep sloping or vertical)
Riparian Veg. Coniferous
Riparian Stage Mature forest

Texture ☒ Fines ☐ Gravel ☐ Cobble
☐ Boulder ☐ Rock ☐ Man Made

WATER

Temperature Method T4 pH Method P2 EMS #
Conductivity Method S2 Turbidity ☐ Turbid ☐ Medium ☐ Light ☐ Clear Method GE

MORPHOLOGY

BED Dominant Gravels D95(cm) (only 5%larger) 40
MATERIAL Subdominant Cobble D (cm) (moveable) 10

Channel Pattern Straight
Coupling Coupled
Confinement Confined
Islands None

Morphology Code
RP

Beaver Dam(s) ☐ O1
Eroding Bank(s) ☐ B2
LWD Jam(s) ☐ D3
Sediment Wedges ☐ S3
Bars
☒ None ☐ Mid
☐ Side ☐ Span
☐ Diag. ☐ Braid

Site/Reach Card

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

Reach 2.0
Site # 78ILP # 11321
ILP Map # 93M.010

Project Name Northwood Pulp and Timber Fish Inventory

Project Code 06-BABL-0103-0606-1998

FEATURES**HABITAT QUALITY**

FSZs

Side Chan ☐Flood/Beaver ☐Tribes. ☐Flood Chan ☐Slough ☐

Name

Comments

Other

No fish habitat - gradient barrier

PHOTO DOCUMENTATION

Film

Compact Disc

Lens / Dir.

Comments

Roll 16 Fr 22 CD 274 Im 79 STD D Note steep gully along which stream runs in background

Roll 16 Fr 23 CD 274 Im 80 STD U

WILDLIFE**COMMENTS**

Form

Section

Comments

SITE

CHANNEL

S6 stream - gradient barrier

Site/Reach Card

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

Reach 5.0
Site # 79

ILP # 9317
ILP Map # 93M.009

Project Name Northwood Pulp and Timber Fish Inventory

Project Code 06-BABL-0103-0606-1998

REACH ATTRIBUTES

Sample Type B

Length (km) .80 Elevation (m): upstream 1120 downstream 1060 UTM (Zone/East/North/ method)
Gradient (%) 7.5 Order 3 Magnitude 7 BGC Zone SBS
Setting Valley Wall Bars ☒ None ☐ Side ☐ Diagonal ☐ Mid ☐ Span ☐ Braid
Open water A Wetland ☐ Mass Movement Not Specified Active Floodplain ☐
Confinement Frequently Confined Exposed/Eroded Not Specified Width (m) 0
Coupling Not Specified Islands Not Specified Beaver Dam(s) ☐
Channel Pattern Sinuous Landuse Not Specified LWD jam(s) ☐
Riparian Vegetation Not Specified Valley Flat Not Specified (C)ontinuous ☐
(D)iscontinuous ☐

SITE

Gazetted Name Local Name Unnamed
Survey Date 1998/09/25 Time 11:26 FIELD UTM(Zone/East/North/Method)
Crew JD/SW Access H MAP UTM (Zone/East/North/Method) GIS
Site Length (m) 200 Method HC Fish Card ☒ Incomplete ☐ NID Map 93M.010 NID # 79

CHANNEL

								Average	Method(s)
Channel Widths (m)	1.1	1.1	1.3	1.3	1.6	0.9	1.5	1.3	T
Wetted Widths (m)	0.8	1.1	1.1	1.0	0.8	0.8	1.3	1.0	T
Resid. Pool Depths (m)	0.17	0.10	0.10	0.15	0.09	0.13	0.18	0.13	T

No Vis.Ch. ☐ Dewatered ☐ Gradients (%) 8.0 7.0 7.5 AL ,
Intermittent ☐ Tributaries ☐ Bankfull Depth (m) 0.3 0.4 0.3 0.3 T

Stage ☒ Low
☐ Med.
☐ High

COVER -		Total	Moderate	LWD Few	Dist. Evenly Distributed		
SWD	LWD	Boulder	Cutbank	Deep Pool	Over Veg	Instream Veg	
Trace	Sub-Dominant	Trace	Dominant	Sub-Dominant	Sub-Dominant	Trace	

Crown Closure
21-40%

Instream Vegetation

☐ None ☒ Moss
☐ Algae ☐ Vasc.

LEFT BANK

Shape Undercut
Riparian Veg. Coniferous
Riparian Stage Mature forest

Texture ☒ Fines ☐ Gravel ☐ Cobble
☐ Boulder ☐ Rock ☐ Man Made

RIGHT BANK

Shape Undercut
Riparian Veg. Shrubs
Riparian Stage Shrub/herb stage

Texture ☒ Fines ☐ Gravel ☐ Cobble
☐ Boulder ☐ Rock ☐ Man Made

WATER

Temperature 6.4 Method T4 pH 7.6 Method P2 EMS #
Conductivity 124 Method S2 Turbidity ☐ Turbid ☐ Medium ☐ Light ☒ Clear Method GE

MORPHOLOGY

BED Dominant Cobble
MATERIAL Subdominant Gravels

D95(cm) (only 5%larger) 39
D (cm) (moveable) 10

Channel Pattern Sinuous
Coupling Coupled
Confinement Occasionally Confined
Islands None

Morphology Code
RP

Beaver Dam(s) ☐ O1
Eroding Bank(s) ☐ B2 ☒ None ☐ Mid
LWD Jam(s) ☐ D3 ☐ Side ☐ Span
Sediment Wedges ☐ S3 ☐ Diag. ☐ Braid

Site/Reach Card

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

Reach 5.0

ILP # 9317

Site # 79

ILP Map # 93M.009

Project Name Northwood Pulp and Timber Fish Inventory

Project Code 06-BABL-0103-0606-1998

FEATURES**HABITAT QUALITY**

FSZs

Side Chan ☐Flood/Beaver ☐Tribes ☐Flood Chan ☐Slough ☐

Name

Comments

Rearing Habitat

Would be good rearing habitat if fish could access it.

PHOTO DOCUMENTATION

Film

Compact Disc

Lens / Dir.

Comments

Roll 16 Fr 24 CD 274 Im 81 STD U

Roll 16 Fr 25 CD 274 Im 82 STD D Shows grasses/shrubs on right bank and mature forest on left bank

WILDLIFE**COMMENTS**

Form

Section

Comments

SITE

CHANNEL

Good flows - S6 reach - gradient barrier in downstream reach (reach 4 - map estimate 20%) Reach two sampled - no fish - suggest resample of reach one.

FDIS Fish Form

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

Reach # 5.0

ILP # 9317

ILP Map # 93M.009

Project Name Northwood Pulp and Timber Fish Inventory

Project Code 06-BABL-0103-0606-1998

Lake / Stream	S	SITE / METHOD	Waterbody ID
---------------	---	---------------	--------------

Permit 34770-20 Date: 1998/09/25 To: 1998/09/25 Crew: JD/SW Resample ☐

Site	NID MAP	NID	UTM:Zone/East/North/ Mthd	MTD/NO	Temp	Cond	Turbid	Comment
79	93M.010	79		EF 1	6.4	124	C	

GEAR SETTINGS

Site	MTD/NO	H/P	Date In	Time In	Date Out	Time Out	Comment
79	EF 1	1	1998/09/25	11:25	1998/09/25	11:40	

NET/TRAP SPECIFICATIONS

ELECTROFISHER SPECIFICATIONS

Site	MTD/NO	H/P	Encl	Sec.	Length	Width	Volts	Hz	Pulse	Make	Model
79	EF 1	1	O	234	150.0	1.3	500	60	5	SR	12 B POW

FISH SUMMARY

Site	MTD/NO	H/P	Species	Stage	Age	Total #	Lgth (Min/Max)	Activity	Comment
79	EF	1	1	NFC		0			

INDIVIDUAL FISH DATA

COMMENTS

Site/Reach Card

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

Reach 1.0
Site # 84

ILP # 11317
ILP Map # 93M.010

Project Name Northwood Pulp and Timber Fish Inventory

Project Code 06-BABL-0103-0606-1998

REACH ATTRIBUTES

Sample Type B

Length (km) 1.06 Elevation (m): upstream 1070 downstream 945 UTM (Zone/East/North/ method)
Gradient (%) 11.8 Order 2 Magnitude 3 BGC Zone SBS
Setting Valley Wall Bars ☒ None ☐ Side ☐ Diagonal ☐ Mid ☐ Span ☐ Braid
Open water A Wetland ☐ Mass Movement Low or no impact to channel; Active Floodplain ☐
Confinement Confined Exposed/Eroded Unknown, Not visible Width (m)
Coupling Decoupled Islands NONE Beaver Dam(s) ☐
Channel Pattern Sinuous Landuse None/natural LWD jam(s) ☐
Riparian Vegetation Mixed C/D Valley Flat Not Specified (C)ontinuous ☐
(D)iscontinuous ☐

SITE

Gazetted Name Local Name Unnamed
Survey Date 1998/09/25 Time 15:53 FIELD UTM(Zone/East/North/Method)
Crew JD/SW Access H MAP UTM (Zone/East/North/Method) GIS
Site Length (m) 100 Method HC Fish Card ☒ Incomplete ☐ NID Map 93M.010 NID # 84

CHANNEL

							Average	Method(s)
Channel Widths (m)	0.9	0.3	1.2	1.1	1.5	0.8	1.0	T
Wetted Widths (m)	0.8	0.2	0.6	1.0	1.2	0.7	0.8	T
Resid. Pool Depths (m)	0.07	0.05	0.14	0.25	0.21	0.03	0.12	T

No Vis.Ch. ☐ Dewatered ☐ Gradients (%) 6.0 10.0 8.0 AL ,
Intermittent ☐ Tributaries ☐ Bankfull Depth (m) 0.3 0.3 0.2 0.3 T

Stage ☒ Low
☐ Med.
☐ High

COVER -		Total	Abundant	LWD	Few	Dist.	Evenly Distributed
SWD	LWD	Boulder	Cutbank	Deep Pool	Over Veg	Instream Veg	
Sub-Dominant	Sub-Dominant	Trace	Dominant	Trace	Sub-Dominant	None	

Crown Closure
21-40%

Instream Vegetation
☐ None ☒ Moss
☐ Algae ☐ Vasc.

LEFT BANK

Shape V - shaped (steep sloping or vertical)
Riparian Veg. Coniferous
Riparian Stage Mature forest

Texture ☒ Fines ☐ Gravel ☐ Cobble
☐ Boulder ☐ Rock ☐ Man Made

RIGHT BANK

Shape V - shaped (steep sloping or vertical)
Riparian Veg. Coniferous
Riparian Stage Mature forest

Texture ☒ Fines ☐ Gravel ☐ Cobble
☐ Boulder ☐ Rock ☐ Man Made

WATER

Temperature 6 Method T4 pH 7.8 Method P2 EMS #
Conductivity 206 Method S2 Turbidity ☐ Turbid ☐ Medium ☐ Light ☒ Clear Method GE

MORPHOLOGY

BED Dominant Gravels D95(cm) (only 5% larger) 24
MATERIAL Subdominant Cobble D (cm) (moveable) 11

Channel Pattern Sinuous
Coupling Decoupled
Confinement Confined
Islands None

Morphology Code
RP

Beaver Dam(s) ☐ O1
Eroding Bank(s) ☐ B2 ☒ None ☐ Mid
LWD Jam(s) ☐ D3 ☐ Side ☐ Span
Sediment Wedges ☐ S3 ☐ Diag. ☐ Braid

Site/Reach Card

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

Reach 1.0

ILP # 11317

Site # 84

ILP Map # 93M.010

Project Name Northwood Pulp and Timber Fish Inventory

Project Code 06-BABL-0103-0606-1998

FEATURES**HABITAT QUALITY**

FSZs

Side Chan ☐Flood/Beaver ☐Tribes ☐Flood Chan ☐Slough ☐**Name****Comments**

Spawning Habitat

Poor spawning habitat - no substrate

Rearing Habitat

Poor to fair rearing habitat - some pools but many sections of subsurface flow.

PHOTO DOCUMENTATION**Film****Compact Disc****Lens / Dir.****Comments**

Roll 16 Fr 37 CD Im STD U Photo did not turn out - no CD image - Channel - in background section of subsurface flow (moss covered area)

Roll 17 Fr 1 CD 274 Im 85 STD D

WILDLIFE**COMMENTS****Form****Section****Comments**

SITE

CHANNEL

S6 stream - Suggest sample reach 5 of 9303 immediately above Reach 4 - Likely barrier to fish access in Reach 5. Many sections of subsurface flow. Did some electrofishing in upstream section of reach 6 of ILP 9303 (downstream confl.) - no fish found.

SITE

FDIS Fish Form

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

Reach # 1.0

ILP # 11317

ILP Map # 93M.010

Project Name Northwood Pulp and Timber Fish Inventory

Project Code 06-BABL-0103-0606-1998

Lake / Stream	S	SITE / METHOD		Waterbody ID	
---------------	---	---------------	--	--------------	--

Permit 34770-20 Date: 1998/09/25 To: 1998/09/25 Crew: JD/SW Resample ☒

Site	NID MAP	NID	UTM:Zone/East/North/ Mthd	MTD/NO	Temp	Cond	Turbid	Comment
84	93M.010	84		EF 1	6.0	206	C	

GEAR SETTINGS

Site	MTD/NO	H/P	Date In	Time In	Date Out	Time Out	Comment
84	EF 1	1	1998/09/25	14:10	1998/09/25	15:53	

NET/TRAP SPECIFICATIONS

ELECTROFISHER SPECIFICATIONS

Site	MTD/NO	H/P	Encl	Sec.	Length	Width	Volts	Hz	Pulse	Make	Model
84	EF 1	1	O	151	100.0	1.0	500	60	5	SR	12 B POW

FISH SUMMARY

Site	MTD/NO	H/P	Species	Stage	Age	Total #	Lgth (Min/Max)	Activity	Comment
84	EF	1	1	NFC		0			

INDIVIDUAL FISH DATA

COMMENTS

Section

Comments

WATERBODY

Resample reach 5 immediately above reach 4 for a possible barrier ILP 9303 reach 5.

Site/Reach Card

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

Reach 1.0
Site # 85

ILP # 19347
ILP Map # 93M.019

Project Name Northwood Pulp and Timber Fish Inventory

Project Code 06-BABL-0103-0606-1998

REACH ATTRIBUTES						Sample Type
Length (km)	.40	Elevation (m): upstream	845	downstream	810	UTM (Zone/East/North/ method)
Gradient (%)	8.8	Order	1	Magnitude	1	BGC Zone SBS
Setting	Valley Wall		Bars ☒ None ☐ Side ☐ Diagonal ☐ Mid ☐ Span ☐ Braid			
Open water	A	Wetland	☐		Mass Movement	Not Specified
Confinement	Occasionally Confined		Exposed/Eroded		Unknown, Not visible	Active Floodplain ☐
Coupling	Decoupled		Islands		None Visible	Beaver Dam(s) ☐
Channel Pattern	Sinuous		Landuse		Logging	LWD jam(s) ☐
Riparian Vegetation	NONE		Valley Flat		Not Specified	(C)ontinuous ☐ (D)iscontinuous ☐

SITE			
Gazetted Name	Local Name Unnamed		
Survey Date	1998/09/26	Time	09:48
Crew	SW/JD	Access	H
Field UTM (Zone/East/North/Method)	GIS		
Site Length (m)	100	Method	GE
Fish Card	☐ Incomplete ☐	NID Map	93M.019
NID #	85		

CHANNEL	
No Visible Channel	☒
Gradient(s) (%)	
Vegetation	
Veg. Stage	

FEATURE			
HABITAT QUALITY		FSZs	Side Chan ☐
		Tribs. ☐	Flood Chan ☐
		Flood/Beaver ☐	Slough ☐
Name	Comments		
Other	No fish habitat		

PHOTO DOCUMENTATION							
Film	Compact Disc		Lens / Dir.		Comments		
Roll 17	Fr	2	CD 274	Im	86	STD	U
No visible channel							
Roll 17	Fr	3	CD 274	Im	87	STD	D
Vegetated gully							

COMMENT		
Form	Section	Comments
SITE	CHANNEL	Not a stream.

Site/Reach Card

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

Reach 1.0

ILP # 19348

Site # 86

ILP Map # 93M.019

Project Name Northwood Pulp and Timber Fish Inventory

Project Code 06-BABL-0103-0606-1998

REACH ATTRIBUTESSample Type **R**

Length (km) .45 Elevation (m): upstream 860 downstream 850 UTM (Zone/East/North/ method)

Gradient (%) 2.2 Order 1 Magnitude 1 BGC Zone SBS

Setting Valley Floor

Bars ☒ None ☐ Side ☐ Diagonal ☐ Mid ☐ Span ☐ BraidOpen water A Wetland ☐

Mass Movement Low or no impact to channel;

Active Floodplain ☐

Confinement Occasionally Confined

Exposed/Eroded Unknown, Not visible

Width (m)

Coupling Decoupled

Islands None Visible

Beaver Dam(s) ☐

Channel Pattern Irregular, Wandering

Landuse None/natural

LWD jam(s) ☐

Riparian Vegetation Shrubs

Valley Flat Not Specified

(C)ontinuous ☐
(D)iscontinuous ☐**SITE**

Gazetted Name

Local Name Unnamed

Survey Date 1998/09/26

Time 10:39

FIELD UTM(Zone/East/North/Method)

Crew SW/JD

Access H

MAP UTM (Zone/East/North/Method)

GIS

Site Length (m) 150

Method HC

Fish Card ☐ Incomplete ☐

NID Map 93M.019

NID # 86

CHANNELNo Visible Channel ☒

Gradient(s) (%)

Vegetation

Veg. Stage

FEATURE**HABITAT QUALITY**

FSZs

Side Chan ☐Flood/Beaver ☐Tribes ☐Flood Chan ☐Slough ☐

Name

Comments

Other

No fish habitat

PHOTO DOCUMENTATION

Film Compact Disc Lens / Dir. Comments

Roll 17 Fr 4 CD 274 Im 88 STD U No visible channel - vegetated channel

Roll 17 Fr 5 CD 274 Im 89 STD D No visible channel - vegetated channel

COMMENT

Form Section Comments

SITE CHANNEL Not a stream

Site/Reach Card

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

Reach 3.0
Site # 87

ILP # 19338
ILP Map # 93M.019

Project Name Northwood Pulp and Timber Fish Inventory

Project Code 06-BABL-0103-0606-1998

REACH ATTRIBUTES

Sample Type R

Length (km) 1.16 Elevation (m): upstream 880 downstream 810 UTM (Zone/East/North/ method)
Gradient (%) 6.0 Order 2 Magnitude 2 BGC Zone SBS
Setting Valley Wall Bars ☒ None ☐ Side ☐ Diagonal ☐ Mid ☐ Span ☐ Braid
Open water A Wetland ☐ Mass Movement Not Specified Active Floodplain ☐
Confinement Occasionally Confined Exposed/Eroded Unknown, Not visible Width (m)
Coupling Decoupled Islands None Visible Beaver Dam(s) ☐
Channel Pattern Irregular, Wandering Landuse None/natural LWD jam(s) ☐
Riparian Vegetation Mixed C/D Valley Flat Not Specified (C)ontinuous ☐
(D)iscontinuous ☐

SITE

Gazetted Name Local Name Unnamed
Survey Date 1998/09/26 Time 11:02 FIELD UTM(Zone/East/North/Method)
Crew SW/JD Access H MAP UTM (Zone/East/North/Method) GIS
Site Length (m) 250 Method HC Fish Card ☐ Incomplete ☐ NID Map 93M.019 NID # 87

CHANNEL

							Average	Method(s)
Channel Widths (m)	1.2	1.3	1.6	2.0	1.9	1.7	1.6	T
Wetted Widths (m)							n/a	
Resid. Pool Depths (m)							n/a	

No Vis.Ch. ☐	Dewatered ☐	Gradients (%)	5.0	6.0		5.5	C ,
Intermittent ☒	Tributaries ☐	Bankfull Depth (m)	0.3	0.4	0.1	0.3	T

Stage ☒ Low COVER - Total Moderate LWD Few Dist. Evenly Distributed
☐ Med. SWD LWD Boulder Cutbank Deep Pool Over Veg Instream Veg
☐ High Trace Trace None Sub-Dominant None Dominant Trace

Crown Closure
21-40%

LEFT BANK

Shape Overhanging bank
Riparian Veg. Deciduous
Riparian Stage Pole-sapling stage

Instream Vegetation

☐ None ☒ Moss
☐ Algae ☒ Vasc.

Texture ☒ Fines ☐ Gravel ☐ Cobble
☐ Boulder ☐ Rock ☐ Man Made

RIGHT BANK

Shape Overhanging bank
Riparian Veg. Deciduous
Riparian Stage Pole-sapling stage

Texture ☒ Fines ☐ Gravel ☐ Cobble
☐ Boulder ☐ Rock ☐ Man Made

WATER

Temperature Method pH Method EMS #
Conductivity Method Turbidity ☐ Turbid ☐ Medium ☐ Light ☐ Clear Method GE

MORPHOLOGY

BED Dominant Cobble D95(cm) (only 5%larger) 12
MATERIAL Subdominant Gravels D (cm) (moveable) 15

Channel Pattern Irregular, Wandering
Coupling Partially Coupled
Confinement Occasionally Confined
Islands None

Morphology Code
RP

Beaver Dam(s) ☐ O1
Eroding Bank(s) ☐ B2 ☒ None ☐ Mid
LWD Jam(s) ☐ D3 ☐ Side ☐ Span
Sediment Wedges ☐ S3 ☐ Diag. ☐ Braid

Site/Reach Card

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

Reach 3.0

ILP # 19338

Site # 87

ILP Map # 93M.019

Project Name Northwood Pulp and Timber Fish Inventory

Project Code 06-BABL-0103-0606-1998

FEATURES

Type CV Height 1.0 Method GE Length 2 Method GE

Comments Wooden box culvert - poor condition - sediment introduction

Photograph Roll 17 Frame 8 UTM (Zone/East/North/ Method)

HABITAT QUALITY

FSZs

Side Chan ☐Flood/Beaver ☐Tribes ☐Flood Chan ☐Slough ☐**Name****Comments**

Rearing Habitat

Poor rearing habitat - no water

Spawning Habitat

Poor spawning habitat - no water

PHOTO DOCUMENTATION

Film	Compact Disc	Lens / Dir.	Comments
Roll 17 Fr 8 CD 274 Im 92 STD NS	Wooden box culvert - poor condition - sediment introduction		
Roll 17 Fr 6 CD 274 Im 90 STD U	Dry channel		
Roll 17 Fr 7 CD 274 Im 91 STD D	Dry channel		

WILDLIFE**COMMENTS****Form****Section****Comments**

SITE

CHANNEL

Dry stream - ephemeral - possible fish access to lower portion of reach during runoff periods. Should sample reach one (box culvert - poor condition - possible barrier).

Site/Reach Card

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

Reach 2.0
Site # 88

ILP # 19338
ILP Map # 93M.019

Project Name Northwood Pulp and Timber Fish Inventory

Project Code 06-BABL-0103-0606-1998

REACH ATTRIBUTES

Sample Type R

Length (km) .30 Elevation (m): upstream 810 downstream 780 UTM (Zone/East/North/ method)
Gradient (%) 10.0 Order 3 Magnitude 5 BGC Zone SBS
Setting Valley Floor Bars ☒ None ☐ Side ☐ Diagonal ☐ Mid ☐ Span ☐ Braid
Open water A Wetland ☐ Mass Movement Not Specified Active Floodplain ☐
Confinement Occasionally Confined Exposed/Eroded Unknown, Not visible Width (m)
Coupling Decoupled Islands None Visible Beaver Dam(s) ☐
Channel Pattern Sinuous Landuse None/natural LWD jam(s) ☐
Riparian Vegetation Deciduous Valley Flat Not Specified (C)ontinuous ☐
(D)iscontinuous ☐

SITE

Gazetted Name Local Name Unnamed
Survey Date 1998/09/26 Time 12:02 FIELD UTM(Zone/East/North/Method)
Crew SW/JD Access H MAP UTM (Zone/East/North/Method) GIS
Site Length (m) 300 Method HC Fish Card ☒ Incomplete ☐ NID Map 93M.019 NID # 88

CHANNEL

							Average	Method(s)
Channel Widths (m)	1.5	2.2	1.9	2.1	2.0	1.6	1.9	T
Wetted Widths (m)	0.4	0.4	0.6	0.6	0.7	0.4	0.5	T
Resid. Pool Depths (m)	0.11	0.08	0.10	0.07	0.11	0.07	0.09	T

No Vis.Ch. ☐	Dewatered ☐	Gradients (%)	8.0	7.0	7.5	C ,	
Intermittent ☐	Tributaries ☐	Bankfull Depth (m)	0.3	0.3	0.4	0.3	T

Stage ☒ Low
☐ Med.
☐ High

COVER -		Total	Abundant	LWD	Abundant	Dist.	Evenly Distributed
SWD	LWD	Boulder	Cutbank	Deep Pool	Over Veg	Instream Veg	
Trace	Dominant	Sub-Dominant	Sub-Dominant	Trace	Trace	Trace	

Crown Closure
21-40%

Instream Vegetation
☐ None ☒ Moss
☐ Algae ☐ Vasc.

LEFT BANK

Shape Undercut
Riparian Veg. Coniferous
Riparian Stage Mature forest

Texture ☐ Fines ☒ Gravel ☒ Cobble
☐ Boulder ☐ Rock ☐ Man Made

RIGHT BANK

Shape Overhanging bank
Riparian Veg. Coniferous
Riparian Stage Mature forest

Texture ☐ Fines ☐ Gravel ☒ Cobble
☐ Boulder ☒ Rock ☐ Man Made

WATER

Temperature 5.3 Method T4 pH 8.0 Method P2 EMS #
Conductivity 73 Method S2 Turbidity ☐ Turbid ☐ Medium ☐ Light ☒ Clear Method GE

MORPHOLOGY

BED Dominant Cobble D95(cm) (only 5%larger) 30
MATERIAL Subdominant Gravels D (cm) (moveable) 20

Channel Pattern Irregular, Wandering
Coupling Coupled
Confinement Confined
Islands None

Morphology Code
RP

Beaver Dam(s) ☐ Q1
Eroding Bank(s) ☐ B2
LWD Jam(s) ☐ D3
Sediment Wedges ☐ S3
Bars
☐ None ☐ Mid
☒ Side ☐ Span
☐ Diag. ☐ Braid

Site/Reach Card

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

Reach 2.0

ILP # 19338

Site # 88

ILP Map # 93M.019

Project Name Northwood Pulp and Timber Fish Inventory

Project Code 06-BABL-0103-0606-1998

FEATURES**HABITAT QUALITY**

FSZs

Side Chan ☐Flood/Beaver ☐Tribes ☐Flood Chan ☐Slough ☐

Name	Comments
Rearing Habitat	Good rearing habitat - lots of cover and pools
Spawning Habitat	Good spawning habitat - abundant gravel and good flows

PHOTO DOCUMENTATION

Film	Compact Disc	Lens / Dir.	Comments
Roll 17 Fr 9 CD 274 Im 93 STD U	canyon section		
Roll 17 Fr 10 CD 274 Im 94 STD D	Canyon - spanning large woody debris		

WILDLIFE**COMMENTS**

Form	Section	Comments
SITE	CHANNEL	Small cascades within reach - too small to be a barrier for adults.
SITE	CHANNEL	Check reach 1 upper portion for fish use and possible barrier

Site/Reach Card

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

Reach 2.0
Site # 89

ILP # 19339
ILP Map # 93M.019

Project Name Northwood Pulp and Timber Fish Inventory

Project Code 06-BABL-0103-0606-1998

REACH ATTRIBUTES

Sample Type R

Length (km) .60 Elevation (m): upstream 1020 downstream 875 UTM (Zone/East/North/ method)
Gradient (%) 24.2 Order 2 Magnitude 2 BGC Zone SBS
Setting Valley Wall Bars ☒ None ☐ Side ☐ Diagonal ☐ Mid ☐ Span ☐ Braid
Open water A Wetland ☐ Mass Movement Medium impact; some debris Active Floodplain ☐
Confinement Confined Exposed/Eroded Unknown, Not visible Width (m)
Coupling Coupled Islands None Visible Beaver Dam(s) ☐
Channel Pattern Straight Landuse None/natural LWD jam(s) ☐
Riparian Vegetation Mixed C/D Valley Flat Not Specified (C)ontinuous ☐
(D)iscontinuous ☐

SITE

Gazetted Name Local Name Unnamed
Survey Date 1998/09/26 Time 12:43 FIELD UTM(Zone/East/North/Method)
Crew SW/JD Access H MAP UTM (Zone/East/North/Method) GIS
Site Length (m) 100 Method HC Fish Card ☐ Incomplete ☐ NID Map 93M.019 NID # 89

CHANNEL

	Average	Method(s)
Channel Widths (m) 1.1 0.8 0.7 1.5	1.0	T
Wetted Widths (m)	n/a	T
Resid. Pool Depths (m)	n/a	T

No Vis.Ch. ☐	Dewatered ☐	Gradients (%) 16.0 17.0 22.0 24.0	19.7	C, C
Intermittent ☒	Tributaries ☐	Bankfull Depth (m) 0.3 0.2 0.3	0.3	T

Stage ☒ Low
☐ Med.
☐ High

COVER -		Total	Abundant	LWD	Abundant	Dist.	Evenly Distributed
SWD	LWD	Boulder	Cutbank	Deep Pool	Over Veg	Instream Veg	
Trace	Sub-Dominant	Trace	Dominant	None	Sub-Dominant	Trace	

Crown Closure
21-40%

Instream Vegetation
☐ None ☒ Moss
☐ Algae ☐ Vasc.

LEFT BANK

Shape Overhanging bank
Riparian Veg. Deciduous
Riparian Stage Pole-sapling stage

Texture ☒ Fines ☒ Gravel ☐ Cobble
☐ Boulder ☐ Rock ☐ Man Made

RIGHT BANK

Shape Sloping (gradual or shallow sloping)
Riparian Veg. Deciduous
Riparian Stage Mature forest

Texture ☐ Fines ☒ Gravel ☒ Cobble
☐ Boulder ☐ Rock ☐ Man Made

WATER

Temperature Method T4 pH Method P2 EMS #
Conductivity Method S2 Turbidity ☐ Turbid ☐ Medium ☐ Light ☐ Clear Method GE

MORPHOLOGY

BED Dominant Cobble D95(cm) (only 5% larger) 25
MATERIAL Subdominant Gravels D (cm) (moveable) 15
Channel Pattern Irregular, Wandering
Coupling Coupled
Confinement Confined
Islands None

Morphology Code
RP

Bars	
Beaver Dam(s) ☐ O1	☒ None ☐ Mid
Eroding Bank(s) ☐ B2	☐ Side ☐ Span
LWD Jam(s) ☐ D3	☐ Diag. ☐ Braid
Sediment Wedges ☐ S3	

Site/Reach Card

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

Reach 2.0

ILP # 19339

Site # 89

ILP Map # 93M.019

Project Name Northwood Pulp and Timber Fish Inventory

Project Code 06-BABL-0103-0606-1998

FEATURES**HABITAT QUALITY**

FSZs

Side Chan ☐Flood/Beaver ☐Tribes ☐Flood Chan ☐Slough ☐

Name

Comments

Other

No fish habitat

PHOTO DOCUMENTATION

Film

Compact Disc

Lens / Dir.

Comments

Roll 17 Fr 11 CD 274 Im 95 STD D

Roll 17 Fr 12 CD 274 Im 96 STD U

WILDLIFE**COMMENTS**

Form

Section

Comments

SITE

CHANNEL

No access to fish bearing water - no water, no habitat for fish - S6 stream.

Site/Reach Card

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

Reach 3.0
Site # 90

ILP # 19337
ILP Map # 93M.019

Project Name Northwood Pulp and Timber Fish Inventory

Project Code 06-BABL-0103-0606-1998

REACH ATTRIBUTES						Sample Type	R
Length (km)	.46	Elevation (m): upstream	900	downstream	800	UTM (Zone/East/North/ method)	
Gradient (%)	21.7	Order	1	Magnitude	1	BGC Zone	SBS
Setting	Valley Wall		Bars		☒ None	☐ Side	☐ Diagonal
					☐ Mid	☐ Span	☐ Braid
Open water	A	Wetland	☐	Mass Movement	Not Specified		Active Floodplain
Confinement	Frequently Confined		Exposed/Eroded		Unknown, Not visible		Width (m)
Coupling	Not Specified		Islands		None Visible		Beaver Dam(s)
Channel Pattern	Straight		Landuse		Logging, with reserves		LWD jam(s)
Riparian Vegetation	Mixed C/D		Valley Flat		Not Specified		(C)ontinuous
							(D)iscontinuous

SITE			
Gazetted Name	Local Name Unnamed		
Survey Date 1998/09/26	Time 13:08	FIELD UTM(Zone/East/North/Method)	
Crew SW/JD	Access H	MAP UTM (Zone/East/North/Method)	
Site Length (m) 100	Method HC	Fish Card ☐ Incomplete ☐	NID Map 93M.019 NID # 90

CHANNEL							Average	Method(s)
Channel Widths (m)	0.9	1.1	0.8	0.6	0.8	0.9	0.9	T
Wetted Widths (m)							n/a	T
Resid. Pool Depths (m)							n/a	T

No Vis.Ch. ☐	Dewatered ☐	Gradients (%)	10.0	18.0	12.0	15.0	13.7	C, C
Intermittent ☒	Tributaries ☐	Bankfull Depth (m)	0.2	0.2	0.2	0.2	0.2	T

Stage ☒ Low	COVER -		Total	Abundant	LWD Few	Dist.	Clumped
☐ Med.	SWD	LWD	Boulder	Cutbank	Deep Pool	Over Veg	Instream Veg
☐ High	Trace	Sub-Dominant	None	Sub-Dominant	None	Dominant	Sub-Dominant

LEFT BANK		RIGHT BANK	
Shape	Sloping (gradual or shallow sloping)	Shape	Overhanging bank
Riparian Veg.	Coniferous	Riparian Veg.	Coniferous
Riparian Stage	Mature forest	Riparian Stage	Mature forest
Texture	☐ Fines ☒ Gravel ☐ Cobble	Texture	☒ Fines ☐ Gravel ☐ Cobble
	☐ Boulder ☐ Rock ☐ Man Made		☐ Boulder ☐ Rock ☐ Man Made

Crown Closure 21-40%

Instream Vegetation ☐ None ☒ Moss ☐ Algae ☐ Vasc.

WATER			
Temperature	Method T4	pH	Method P2
Conductivity	Method S2	Turbidity	☐ Turbid ☐ Medium ☐ Light ☐ Clear
			EMS #

MORPHOLOGY			
BED	Dominant Gravels	D95(cm) (only 5%larger)	15
MATERIAL	Subdominant Fines	D (cm) (moveable)	5
Channel Pattern	Irregular, Wandering	Beaver Dam(s)	☐ O1
Coupling	Coupled	Eroding Bank(s)	☐ B2
Confinement	Confined	LWD Jam(s)	☐ D3
Islands	None	Sediment Wedges	☐ S3

Morphology Code
RP

Bars	
☒ None	☐ Mid
☐ Side	☐ Span
☐ Diag.	☐ Braid

Site/Reach Card

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

Reach 3.0

ILP # 19337

Site # 90

ILP Map # 93M.019

Project Name Northwood Pulp and Timber Fish Inventory

Project Code 06-BABL-0103-0606-1998

FEATURES

Type CV Height .4 Method GE Length 8 Method GE

Comments Culvert

Photograph Roll 17 Frame 13 UTM (Zone/East/North/ Method)

HABITAT QUALITY

FSZs

Side Chan ☐Flood/Beaver ☐Tribes ☐Flood Chan ☐Slough ☐

Name

Comments

Other

No fish habitat

PHOTO DOCUMENTATION

Film Compact Disc Lens / Dir. Comments

Roll 17 Fr 13 CD 274 Im 97 STD NS Culvert

Roll 17 Fr 14 CD 274 Im 98 STD U

Roll 17 Fr 15 CD 274 Im 99 STD D

WILDLIFE**COMMENTS**

Form Section Comments

SITE CHANNEL

S6 stream - gradient too high - no water - no habitat.

Site/Reach Card

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

Reach 2.0
Site # 91

ILP # 19332
ILP Map # 93M.019

Project Name Northwood Pulp and Timber Fish Inventory

Project Code 06-BABL-0103-0606-1998

REACH ATTRIBUTES						Sample Type	R
Length (km)	.40	Elevation (m): upstream	860	downstream	740	UTM (Zone/East/North/ method)	
Gradient (%)	30.0	Order	2	Magnitude	2	BGC Zone	SBS
Setting	Valley Wall		Bars		☒ None	☐ Side	☐ Diagonal
					☐ Mid	☐ Span	☐ Braid
Open water	A	Wetland	☐	Mass Movement	Not Specified		Active Floodplain
Confinement	Frequently Confined		Exposed/Eroded		Unknown, Not visible		Width (m)
Coupling	Not Specified		Islands		None Visible		Beaver Dam(s)
Channel Pattern	Irregular, Wandering		Landuse		None/natural		LWD jam(s)
Riparian Vegetation	Mixed C/D		Valley Flat		Not Specified		(C)ontinuous
							(D)iscontinuous

SITE			
Gazetted Name	Local Name Unnamed		
Survey Date	1998/09/26	Time	13:42
Crew	SW/JD	Access	H
Site Length (m)	100	Method	HC
Fish Card	☐	Incomplete	☐
NID Map	93M.019	NID #	91

CHANNEL							Average	Method(s)	
Channel Widths (m)	0.6	0.5	0.9	0.8	0.6	0.4	0.6	T	
Wetted Widths (m)	0.0	0.0	0.0	0.0	0.0	0.0	n/a	T	
Resid. Pool Depths (m)	0.00	0.00	0.00	0.00	0.00	0.00	n/a	T	
No Vis.Ch.	☐	Dewatered	☐	Gradients (%)		5.0	6.0	5.5	C ,
Intermittent	☒	Tributaries	☐	Bankfull Depth (m)		0.2	0.1	0.2	T

Stage	COVER -							Total	Abundant	LWD	Abundant	Dist.	Evenly Distributed
	SWD	LWD	Boulder	Cutbank	Deep Pool	Over Veg	Instream Veg						
☒ Low	Trace	Dominant	None	Sub-Dominant	None	Sub-Dominant	Trace						
☐ Med.													
☐ High													
Crown Closure	21-40%												
Instream Vegetation	LEFT BANK Shape Sloping (gradual or shallow sloping) Riparian Veg. Coniferous Riparian Stage Mature forest Texture ☒ Fines ☐ Gravel ☐ Cobble ☐ Boulder ☐ Rock ☐ Man Made RIGHT BANK Shape Overhanging bank Riparian Veg. Deciduous Riparian Stage Young forest Texture ☒ Fines ☐ Gravel ☐ Cobble ☐ Boulder ☐ Rock ☐ Man Made												

WATER			
Temperature	Method T4	pH	Method P2
Conductivity	Method S2	Turbidity	☐ Turbid ☐ Medium ☐ Light ☐ Clear
			Method GE

MORPHOLOGY			
BED	Dominant Fines	D95(cm) (only 5%larger)	3
MATERIAL	Subdominant Gravels	D (cm) (moveable)	1
Channel Pattern	Irregular, Wandering	Beaver Dam(s)	☐ O1
Coupling	Decoupled	Eroding Bank(s)	☐ B2
Confinement	Occasionally Confined	LWD Jam(s)	☐ D3
Islands	None	Sediment Wedges	☐ S3
Morphology Code		Bars	
RP		☒ None ☐ Mid	
		☐ Side ☐ Span	
		☐ Diag. ☐ Braid	

Site/Reach Card

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

Reach 2.0
Site # 91ILP # 19332
ILP Map # 93M.019

Project Name Northwood Pulp and Timber Fish Inventory

Project Code 06-BABL-0103-0606-1998

FEATURES**HABITAT QUALITY**

FSZs

Side Chan ☐Flood/Beaver ☐Tribes ☐Flood Chan ☐Slough ☐

Name

Comments

Other

No fish habitat.

PHOTO DOCUMENTATION

Film	Compact Disc	Lens / Dir.	Comments
Roll 17	Fr 17 CD 274	Im 100 STD D	
Roll 17	Fr 18 CD 274	Im 101 STD U	Intermittent channel

WILDLIFE**COMMENTS**

Form	Section	Comments
SITE	CHANNEL	Sections of subsurface flow. S6 stream. Ephemeral.

Site/Reach Card

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

Reach 3.0

ILP # 71314

Site # 201

ILP Map # 93K.071

Project Name Northwood Pulp and Timber Fish Inventory

Project Code 06-BABL-0103-0606-1998

REACH ATTRIBUTES						Sample Type
Length (km)	.27	Elevation (m): upstream	820	downstream	815	UTM (Zone/East/North/ method)
Gradient (%)	1.9	Order	1	Magnitude	1	BGC Zone SBS
Setting	Plain/Large Plateau		Bars			☒ None ☐ Side ☐ Diagonal ☐ Mid ☐ Span ☐ Braid
Open water	A	Wetland	☒		Mass Movement	Low or no impact to channel; Active Floodplain ☐
Confinement	Frequently Confined		Exposed/Eroded		Unknown, Not visible	Width (m)
Coupling	Decoupled		Islands		None Visible	Beaver Dam(s) ☐
Channel Pattern	Irregular, Wandering		Landuse		None/natural	LWD jam(s) ☐
Riparian Vegetation	Shrubs		Valley Flat		Valley flat on right bank	(C)ontinuous ☒ (D)iscontinuous

SITE			
Gazetted Name	Local Name Unnamed		
Survey Date	1998/09/14	Time	13:00
Crew	JH/JD	Access	H
Field UTM (Zone/East/North/Method)	MAP UTM (Zone/East/North/Method)		
GIS			
Site Length (m)	300	Method	GE
Fish Card	☐ Incomplete	NID Map	93K.071
NID #	20001		

CHANNEL	
No Visible Channel	☒
Gradient(s) (%)	
Vegetation	
Veg. Stage	

FEATURE			
HABITAT QUALITY		FSZs	Side Chan ☐
		Tribs. ☐	Flood/Beaver ☐
		Flood Chan ☐	Slough ☐

PHOTO DOCUMENTATION							
Film	Compact Disc	Lens / Dir.	Comments				
Roll 12	Fr 31 CD 274	Im 8	STD U	Taken upstream of wetland area			
Roll 12	Fr 32 CD 274	Im 9	STD D				

COMMENT		
Form	Section	Comments
SITE	CHANNEL	Vegetated gully adjacent to wetland areas - seepage area - heavily in/over grown with vegetation

Site/Reach Card

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

Reach 7.0
Site # 501

ILP # 1329
ILP Map # 93L.090

Project Name Northwood Pulp and Timber Fish Inventory

Project Code 06-BABL-0103-0606-1998

REACH ATTRIBUTES

Sample Type R

Length (km) 2.20 Elevation (m): upstream 966 downstream 897 UTM (Zone/East/North/ method)
Gradient (%) 3.1 Order 3 Magnitude 12 BGC Zone SBS
Setting Valley Wall Bars ☒ None ☐ Side ☐ Diagonal ☐ Mid ☐ Span ☐ Braid
Open water A Wetland ☐ Mass Movement Not Specified Active Floodplain ☐
Confinement Occasionally Confined Exposed/Eroded Not Specified Width (m)
Coupling Partially Coupled Islands Not Specified Beaver Dam(s) ☐
Channel Pattern Sinuous Landuse None/natural LWD jam(s) ☐
Riparian Vegetation Mixed C/D Valley Flat Not Specified (C)ontinuous ☐
(D)iscontinuous ☐

SITE

Gazetted Name Local Name Unnamed
Survey Date 1998/09/15 Time 11:08 FIELD UTM(Zone/East/North/Method)
Crew JH/JM Access V2 MAP UTM (Zone/East/North/Method) GIS
Site Length (m) 400 Method HC Fish Card ☒ Incomplete ☐ NID Map 93L.100 NID # 50001

CHANNEL

							Average	Method(s)
Channel Widths (m)	4.3	4.7	5.1	5.9	4.9	6.2	5.2	T
Wetted Widths (m)	3.8	2.9	3.8	2.3	3.2	3.2	3.2	T
Resid. Pool Depths (m)	0.50	0.30	0.20	0.40	0.60	0.50	0.42	T

No Vis.Ch. ☐	Dewatered ☐	Gradients (%) 7.0 11.0	9.0	C ,
Intermittent ☐	Tributaries ☐	Bankfull Depth (m) 0.5 0.7 0.7	0.6	T

Stage ☐ Low
☒ Med.
☐ High

COVER - Total Moderate LWD Few Dist. Evenly Distributed
SWD LWD Boulder Cutbank Deep Pool Over Veg Instream Veg
Sub-Dominant Sub-Dominant Sub-Dominant None Dominant Sub-Dominant None

Crown Closure
1-20%

LEFT BANK

Shape V - shaped (steep sloping or vertical)
Riparian Veg. Deciduous
Riparian Stage Shrub/herb stage

Texture ☐ Fines ☐ Gravel ☐ Cobble
☐ Boulder ☒ Rock ☐ Man Made

RIGHT BANK

Shape V - shaped (steep sloping or vertical)
Riparian Veg. Deciduous
Riparian Stage Shrub/herb stage

Texture ☐ Fines ☒ Gravel ☐ Cobble
☐ Boulder ☐ Rock ☐ Man Made

Instream Vegetation
☒ None ☐ Moss
☐ Algae ☐ Vasc.

WATER

Temperature 5 Method T4 pH 7.2 Method P2 EMS #
Conductivity 30 Method S2 Turbidity ☐ Turbid ☐ Medium ☐ Light ☒ Clear Method GE

MORPHOLOGY

BED Dominant Cobble D95(cm) (only 5% larger) 10
MATERIAL Subdominant Gravels D (cm) (moveable) 15
Channel Pattern Regular Meanders
Coupling Coupled
Confinement Occasionally Confined
Islands None

Morphology Code
RP

Beaver Dam(s) ☐ O1
Eroding Bank(s) ☐ B2
LWD Jam(s) ☐ D3
Sediment Wedges ☐ S3
Bars
☐ None ☐ Mid
☒ Side ☐ Span
☐ Diag. ☐ Braid

Site/Reach Card

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

Reach 7.0

ILP # 1329

Site # 501

ILP Map # 93L.090

Project Name Northwood Pulp and Timber Fish Inventory

Project Code 06-BABL-0103-0606-1998

FEATURES**HABITAT QUALITY**

FSZs

Side Chan ☐Flood/Beaver ☐Tribes ☐Flood Chan ☐Slough ☐**Name****Comments**

Rearing Habitat

Good rearing habitat - no fish found despite extensive electroshocking

PHOTO DOCUMENTATION

Film			Compact Disc			Lens / Dir.	Comments
Roll 501	Fr	1	CD 274	Im	102	STD D	
Roll 501	Fr	2	CD 274	Im	103	STD U	Bedrock left bank

WILDLIFE**Group****Observations**

MAM

bear

COMMENTS

FDIS Fish Form

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

Reach # 7.0

ILP # 1329

ILP Map # 93L.090

Project Name Northwood Pulp and Timber Fish Inventory

Project Code 06-BABL-0103-0606-1998

Lake / Stream	S	SITE / METHOD		Waterbody ID
---------------	---	---------------	--	--------------

Permit 34770-20 Date: 1998/09/15 To: 1998/09/15 Crew: JH/JM Resample ☐

Site	NID MAP	NID	UTM:Zone/East/North/ Mthd	MTD/NO	Temp	Cond	Turbid	Comment
501	93L.100	50001		EF 1	5.0	30	C	No fish caught

GEAR SETTINGS

Site	MTD/NO	H/P	Date In	Time In	Date Out	Time Out	Comment
501	EF 1	1	1998/09/15	11:08	1998/09/15	11:31	

NET/TRAP SPECIFICATIONS

ELECTROFISHER SPECIFICATIONS

Site	MTD/NO	H/P	Encl	Sec.	Length	Width	Volts	Hz	Pulse	Make	Model
501	EF 1	1	O	310	400.0	4.0	700	60	5	SR	POW-12A

FISH SUMMARY

Site	MTD/NO	H/P	Species	Stage	Age	Total #	Lgth (Min/Max)	Activity	Comment
501	EF	1 1	NFC			0			

INDIVIDUAL FISH DATA

COMMENTS

Section	Comments
WATERBODY	No fish caught

Site/Reach Card

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

Reach 1.0
Site # 502

ILP # 1345
ILP Map # 93L.090

Project Name Northwood Pulp and Timber Fish Inventory

Project Code 06-BABL-0103-0606-1998

REACH ATTRIBUTES

Sample Type B

Length (km) .80 Elevation (m): upstream 988 downstream 900 UTM (Zone/East/North/ method)
Gradient (%) 11.0 Order 2 Magnitude 2 BGC Zone SBS
Setting Valley Wall Bars ☒ None ☐ Side ☐ Diagonal ☐ Mid ☐ Span ☐ Braid
Open water A Wetland ☐ Mass Movement Not Specified Active Floodplain ☐
Confinement Frequently Confined Exposed/Eroded Not Specified Width (m)
Coupling Not Specified Islands Not Specified Beaver Dam(s) ☐
Channel Pattern Sinuous Landuse None/natural LWD jam(s) ☐
Riparian Vegetation Coniferous Valley Flat Not Specified (C)ontinuous ☐
(D)iscontinuous ☐

SITE

Gazetted Name Local Name Unnamed
Survey Date 1998/09/15 Time 13:03 FIELD UTM(Zone/East/North/Method)
Crew JH/JM Access V2 MAP UTM (Zone/East/North/Method) GIS
Site Length (m) 100 Method GE Fish Card ☒ Incomplete ☐ NID Map 93L.090 NID # 50002

CHANNEL

							Average	Method(s)
Channel Widths (m)	0.6	0.5	0.4	0.4	0.6	0.8	0.5	T
Wetted Widths (m)	0.6	0.4	0.3	0.4	0.5	0.7	0.5	T
Resid. Pool Depths (m)	0.30	0.20	0.10	0.15	0.10	0.05	0.15	T

No Vis.Ch. ☐	Dewatered ☐	Gradients (%)	18.0	13.0	15.5	C ,
Intermittent ☐	Tributaries ☐	Bankfull Depth (m)	0.2	0.3	0.2	T

Stage	COVER -	Total	Abundant	LWD	Abundant	Dist.	Clumped
	SWD	LWD	Boulder	Cutbank	Deep Pool	Over Veg	Instream Veg
	Sub-Dominant	Dominant	Sub-Dominant	Dominant	Sub-Dominant	Dominant	Sub-Dominant
Stage ☒ Low ☐ Med. ☐ High							

Crown Closure
21-40%

LEFT BANK

Shape Undercut
Riparian Veg. Coniferous
Riparian Stage Pole-sapling stage

Texture ☒ Fines ☐ Gravel ☐ Cobble
☐ Boulder ☐ Rock ☐ Man Made

RIGHT BANK

Shape Undercut
Riparian Veg. Coniferous
Riparian Stage Pole-sapling stage

Texture ☒ Fines ☐ Gravel ☐ Cobble
☐ Boulder ☐ Rock ☐ Man Made

Instream Vegetation
☐ None ☒ Moss
☐ Algae ☐ Vasc.

WATER

Temperature 6 Method T4 pH 7.8 Method P2 EMS #
Conductivity 40 Method S2 Turbidity ☐ Turbid ☐ Medium ☐ Light ☒ Clear Method GE

MORPHOLOGY

BED Dominant Cobble D95(cm) (only 5%larger) 6
MATERIAL Subdominant Gravels D (cm) (moveable) 20

Channel Pattern Regular Meanders
Coupling Coupled
Confinement Frequently Confined
Islands None

Morphology Code
CP

Beaver Dam(s) ☐ O1
Eroding Bank(s) ☐ B2 ☒ None ☐ Mid
LWD Jam(s) ☐ D3 ☐ Side ☐ Span
Sediment Wedges ☐ S3 ☐ Diag. ☐ Braid

Site/Reach Card

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

Reach 1.0

ILP # 1345

Site # 502

ILP Map # 93L.090

Project Name Northwood Pulp and Timber Fish Inventory

Project Code 06-BABL-0103-0606-1998

FEATURES

Type CV Height 1.5 Method T Length Method

Comments UPSTREAM SIDE OF CULVERT

Photograph Roll 501 Frame 4 UTM (Zone/East/North/ Method)

Type CV Height 1.5 Method T Length Method

Comments DOWNSTREAM SIDE OF CULVERT

Photograph Roll 501 Frame 5 UTM (Zone/East/North/ Method)

HABITAT QUALITY

FSZs

Side Chan ☐Flood/Beaver ☐Tribes ☐Flood Chan ☐Slough ☐

Name

Comments

Rearing Habitat

Poor rearing habitat

Spawning Habitat

Poor spawning habitat

PHOTO DOCUMENTATION

Film Compact Disc Lens / Dir. Comments

Roll 501 Fr 4 CD 274 Im 104 STD D Upstream side of culvert

Roll 501 Fr 5 CD 274 Im 105 STD U Downstream side of culvert

Roll 501 Fr 8 CD 274 Im 108 STD U

Roll 501 Fr 9 CD 274 Im 109 STD D

WILDLIFE**COMMENTS**

FDIS Fish Form

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

Reach # 1.0

ILP # 1345

ILP Map # 93L.090

Project Name Northwood Pulp and Timber Fish Inventory

Project Code 06-BABL-0103-0606-1998

Lake / Stream	S	SITE / METHOD						Waterbody ID	
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Permit 34770-20 Date: 1998/09/15 To: 1998/09/15 Crew: JH/JM Resample ☐

Site	NID MAP	NID	UTM:Zone/East/North/ Mthd	MTD/NO	Temp	Cond	Turbid	Comment
502	93L.090	50002		EF 1	6.0	40	C	No fish caught

GEAR SETTINGS

Site	MTD/NO	H/P	Date In	Time In	Date Out	Time Out	Comment
502	EF 1	1	1998/09/15	13:10	1998/09/15	13:25	

NET/TRAP SPECIFICATIONS

ELECTROFISHER SPECIFICATIONS

Site	MTD/NO	H/P	Encl	Sec.	Length	Width	Volts	Hz	Pulse	Make	Model
502	EF 1	1	O	68	100.0	1.0	600	60	5	SR	POW 12A

FISH SUMMARY

Site	MTD/NO	H/P	Species	Stage	Age	Total #	Lgth (Min/Max)	Activity	Comment
502	EF	1	1	NFC		0			

INDIVIDUAL FISH DATA

COMMENTS

Section	Comments
WATERBODY	No Fish Caught

Site/Reach Card

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

Reach 6.0
Site # 503

ILP # 1329
ILP Map # 93L.090

Project Name Northwood Pulp and Timber Fish Inventory

Project Code 06-BABL-0103-0606-1998

REACH ATTRIBUTES

Sample Type R

Length (km) .45 Elevation (m): upstream 897 downstream 883 UTM (Zone/East/North/ method)
Gradient (%) 3.1 Order 3 Magnitude 17 BGC Zone SBS
Setting Valley Wall Bars ☒ None ☐ Side ☐ Diagonal ☐ Mid ☐ Span ☐ Braid
Open water A Wetland ☐ Mass Movement Not Specified Active Floodplain ☐
Confinement Occasionally Confined Exposed/Eroded Not Specified Width (m)
Coupling Decoupled Islands Not Specified Beaver Dam(s) ☐
Channel Pattern Irregular Meanders Landuse None/natural LWD jam(s) ☐
Riparian Vegetation Mixed C/D Valley Flat Not Specified (C)ontinuous ☐
(D)iscontinuous ☐

SITE

Gazetted Name Local Name Unnamed
Survey Date 1998/09/15 Time 12:23 FIELD UTM(Zone/East/North/Method)
Crew JH/JM Access V2 MAP UTM (Zone/East/North/Method) GIS
Site Length (m) 500 Method GE Fish Card ☒ Incomplete ☐ NID Map 93L.090 NID # 50003

CHANNEL

							Average	Method(s)
Channel Widths (m)	5.0	5.8	5.7	4.5	6.8	5.3	5.5	T
Wetted Widths (m)	4.1	2.3	4.5	4.5	5.9	4.7	4.3	T
Resid. Pool Depths (m)	0.30	0.25	0.60	0.30	0.35	0.20	0.33	T

No Vis.Ch. ☐	Dewatered ☐	Gradients (%)	5.0	5.0	5.0	C ,
Intermittent ☐	Tributaries ☐	Bankfull Depth (m)	0.3	0.2	0.2	T

Stage ☐ Low
☒ Med.
☐ High

COVER -		Total	Abundant	LWD	Abundant	Dist.	Clumped
SWD	LWD	Boulder	Cutbank	Deep Pool	Over Veg	Instream Veg	
Sub-Dominant	Dominant	None	Sub-Dominant	Sub-Dominant	Dominant	None	

Crown Closure
1-20%

Instream Vegetation

☒ None ☐ Moss
☐ Algae ☐ Vasc.

LEFT BANK

Shape V - shaped (steep sloping or vertical)
Riparian Veg. Deciduous
Riparian Stage Shrub/herb stage

Texture ☐ Fines ☐ Gravel ☒ Cobble
☐ Boulder ☐ Rock ☐ Man Made

RIGHT BANK

Shape V - shaped (steep sloping or vertical)
Riparian Veg. Deciduous
Riparian Stage Shrub/herb stage

Texture ☐ Fines ☐ Gravel ☒ Cobble
☐ Boulder ☐ Rock ☐ Man Made

WATER

Temperature 6 Method T4 pH 7.5 Method P2 EMS #
Conductivity 30 Method S2 Turbidity ☐ Turbid ☐ Medium ☐ Light ☒ Clear Method GE

MORPHOLOGY

BED Dominant Cobble
MATERIAL Subdominant Gravels
Channel Pattern Regular Meanders
Coupling Partially Coupled
Confinement Occasionally Confined
Islands Occasional

D95(cm) (only 5% larger) 6
D (cm) (moveable) 12

Morphology Code
RP

Beaver Dam(s) ☐ O1
Eroding Bank(s) ☐ B2
LWD Jam(s) ☐ D3
Sediment Wedges ☐ S3
Bars
☐ None ☐ Mid
☒ Side ☐ Span
☐ Diag. ☐ Braid

Site/Reach Card

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

Reach 6.0

ILP # 1329

Site # 503

ILP Map # 93L.090

Project Name Northwood Pulp and Timber Fish Inventory

Project Code 06-BABL-0103-0606-1998

FEATURES**HABITAT QUALITY**

FSZs

Side Chan ☐Flood/Beaver ☐Tribes ☐Flood Chan ☐Slough ☐**Name****Comments**

Rearing Habitat

Excellent rearing habitat

Spawning Habitat

Excellent spawning habitat

PHOTO DOCUMENTATION**Film****Compact Disc****Lens / Dir.****Comments**

Roll 501 Fr 6 CD 274 Im 106 STD U Large woody debris

Roll 501 Fr 7 CD 274 Im 107 STD D

WILDLIFE**Group****Observations**

BIR

Grouse

COMMENTS**Form****Section****Comments**

SITE

CHANNEL

No fish caught despite extensive electroshocking - potential barrier downstream

FDIS Fish Form

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

Reach # 6.0

ILP # 1329

ILP Map # 93L.090

Project Name Northwood Pulp and Timber Fish Inventory

Project Code 06-BABL-0103-0606-1998

Lake / Stream		S		SITE / METHOD				Waterbody ID			
Permit	34770-20	Date:	1998/09/15	To:	1998/09/15	Crew:	JH/JM	Resample ☐			
Site	NID MAP	NID	UTM:Zone/East/North/ Mthd		MTD/NO	Temp	Cond	Turbid	Comment		
503	93L.090	50003			EF 1	6.0	30	C	No fish caught		
GEAR SETTINGS											
Site	MTD/NO	H/P	Date In	Time In	Date Out	Time Out	Comment				
503	EF 1	1	1998/09/15	12:33	1998/09/15	12:56					
NET/TRAP SPECIFICATIONS											
ELECTROFISHER SPECIFICATIONS											
Site	MTD/NO	H/P	Encl	Sec.	Length	Width	Volts	Hz	Pulse	Make	Model
503	EF 1	1	O	276	250.0	4.0	500	60	5	SR	POW-12A
FISH SUMMARY											
Site	MTD/NO	H/P	Species	Stage	Age	Total #	Lgth (Min/Max)	Activity	Comment		
503	EF	1	1	NFC		0					
INDIVIDUAL FISH DATA											
COMMENTS											

Site/Reach Card

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

Reach 3.0
Site # 504

ILP # 1343
ILP Map # 93L.090

Project Name Northwood Pulp and Timber Fish Inventory

Project Code 06-BABL-0103-0606-1998

REACH ATTRIBUTES

Sample Type B

Length (km) 1.26 Elevation (m): upstream 931 downstream 910 UTM (Zone/East/North/ method)
Gradient (%) 1.7 Order 1 Magnitude 1 BGC Zone SBS
Setting Valley Wall Bars ☒ None ☐ Side ☐ Diagonal ☐ Mid ☐ Span ☐ Braid
Open water A Wetland ☐ Mass Movement Not Specified Active Floodplain ☐
Confinement Unconfined Exposed/Eroded Not Specified Width (m)
Coupling Decoupled Islands Not Specified Beaver Dam(s) ☐
Channel Pattern Sinuous Landuse None/natural LWD jam(s) ☐
Riparian Vegetation Mixed C/D Valley Flat Not Specified (C)ontinuous ☐
(D)iscontinuous ☐

SITE

Gazetted Name Local Name Unnamed
Survey Date 1998/09/15 Time 14:06 FIELD UTM(Zone/East/North/Method)
Crew JH/JM Access V2 MAP UTM (Zone/East/North/Method) GIS
Site Length (m) 100 Method GE Fish Card ☒ Incomplete ☐ NID Map 93L.100 NID # 50004

CHANNEL

							Average	Method(s)
Channel Widths (m)	1.1	0.8	0.8	0.5	0.4	0.6	0.7	T
Wetted Widths (m)	0.9	0.8	0.7	0.4	0.4	0.5	0.6	T
Resid. Pool Depths (m)	0.10	0.10	0.25	0.20	0.25	0.28	0.20	T

No Vis.Ch. ☐	Dewatered ☐	Gradients (%)	5.0	3.0	4.0	AL ,
Intermittent ☐	Tributaries ☐	Bankfull Depth (m)	0.2	0.1	0.1	T

Stage ☒ Low
☐ Med.
☐ High

COVER -		Total	Abundant	LWD	Few	Dist.	Evenly Distributed
SWD	LWD	Boulder	Cutbank	Deep Pool	Over Veg	Instream Veg	
Sub-Dominant	Dominant	None	Sub-Dominant	Sub-Dominant	Dominant	None	

Crown Closure
21-40%

Instream Vegetation

☒ None ☐ Moss
☐ Algae ☐ Vasc.

LEFT BANK

Shape Undercut
Riparian Veg. Mixed C/D
Riparian Stage Pole-sapling stage

Texture ☒ Fines ☐ Gravel ☐ Cobble
☐ Boulder ☐ Rock ☐ Man Made

RIGHT BANK

Shape Undercut
Riparian Veg. Mixed C/D
Riparian Stage Pole-sapling stage

Texture ☒ Fines ☐ Gravel ☐ Cobble
☐ Boulder ☐ Rock ☐ Man Made

WATER

Temperature 8 Method T4 pH 8.0 Method P2 EMS #
Conductivity 60 Method S2 Turbidity ☐ Turbid ☐ Medium ☐ Light ☒ Clear Method GE

MORPHOLOGY

BED Dominant Fines D95(cm) (only 5%larger) 5
MATERIAL Subdominant Cobble D (cm) (moveable) 0.2

Channel Pattern Regular Meanders
Coupling Partially Coupled
Confinement Occasionally Confined
Islands None

Morphology Code
RP

Beaver Dam(s) ☒ O1 Bars
Eroding Bank(s) ☐ B2 ☒ None ☐ Mid
LWD Jam(s) ☐ D3 ☐ Side ☐ Span
Sediment Wedges ☐ S3 ☐ Diag. ☐ Braid

Site/Reach Card

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

Reach 3.0

ILP # 1343

Site # 504

ILP Map # 93L.090

Project Name Northwood Pulp and Timber Fish Inventory

Project Code 06-BABL-0103-0606-1998

FEATURES

Type BD Height 1.2 Method GE Length Method

Comments Beaver Dam

Photograph Roll 501 Frame 10 UTM (Zone/East/North/ Method)

Type BD Height 1.2 Method GE Length Method

Comments Beaver Dam

Photograph Roll 501 Frame 11 UTM (Zone/East/North/ Method)

HABITAT QUALITY

FSZs

Side Chan ☐Flood/Beaver ☐Tribes ☐Flood Chan ☐Slough ☐**PHOTO DOCUMENTATION**

Film	Compact Disc				Lens / Dir.		Comments
Roll 501	Fr 10	CD 274	Im 110	STD	NS	Beaver Dam	
Roll 501	Fr 11	CD 274	Im 111	STD	NS	Beaver Dam	
Roll 501	Fr 13	CD 274	Im 112	STD	D	Downstream of Beaver Dam	
Roll 501	Fr 14	CD 274	Im 113	STD	U	Beaver Dam	
Roll 501	Fr 15	CD 274	Im 114	STD	U	Upstream of Beaver Dam	
Roll 501	Fr 16	CD 274	Im 115	STD	U	Stream downstream of beaver dam	
Roll 501	Fr 17	CD 274	Im 116	STD	D	Stream downstream of beaver dam	

WILDLIFE

Group Observations

MAM Beaver sign

COMMENTS

Form	Section	Comments
SITE	MORPHOLOGY	At and above road, stream should be classified a wetland. Downstream of road, becomes stream (site 504 at this point)

FDIS Fish Form

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

Reach # 3.0

ILP # 1343

ILP Map # 93L.090

Project Name Northwood Pulp and Timber Fish Inventory

Project Code 06-BABL-0103-0606-1998

Lake / Stream	S	SITE / METHOD						Waterbody ID
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Permit 34770-20 Date: 1998/09/15 To: 1998/09/16 Crew: JH/JM Resample ☐

Site	NID MAP	NID	UTM:Zone/East/North/	Mthd	MTD/NO	Temp	Cond	Turbid	Comment
504	93L.100	50004			EF 1	8.0	60	C	
504	93L.100	50004			MT 1	8.0	60	C	
504	93L.100	50004			MT 2	8.0	60	C	
504	93L.100	50004			MT 3	8.0	60	C	
504	93L.100	50004			MT 4	8.0	60	C	
504	93L.100	50004			MT 5	8.0	60	C	

GEAR SETTINGS

Site	MTD/NO	H/P	Date In	Time In	Date Out	Time Out	Comment
504	EF 1	1	1998/09/15	14:30	1998/09/15	15:00	
504	MT 1	1	1998/09/15	14:22	1998/09/16	09:13	
504	MT 2	1	1998/09/15	14:23	1998/09/16	09:14	
504	MT 3	1	1998/09/15	14:24	1998/09/16	09:16	
504	MT 4	1	1998/09/15	14:25	1998/09/16	09:17	
504	MT 5	1	1998/09/15	14:26	1998/09/16	09:17	

NET/TRAP SPECIFICATIONS

ELECTROFISHER SPECIFICATIONS

Site	MTD/NO	H/P	Encl	Sec.	Length	Width	Volts	Hz	Pulse	Make	Model
504	EF 1	1	O	200	100.0	1.0	500	60	5	SR	POW-12A

FISH SUMMARY

Site	MTD/NO	H/P	Species	Stage	Age	Total #	Lgth (Min/Max)	Activity	Comment
504	EF	1	1	NFC		0			
504	MT	1	1	NFC		0			
504	MT	2	1	NFC		0			
504	MT	3	1	NFC		0			
504	MT	4	1	NFC		0			
504	MT	5	1	NFC		0			

INDIVIDUAL FISH DATA

COMMENTS

Section

WATERBODY

Comments

Beaver dam minnow trapped - stream downstream of beaver dam electroshocked - no fish caught

Site/Reach Card

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

Reach 3.0
Site # 505

ILP # 1329
ILP Map # 93L.090

Project Name Northwood Pulp and Timber Fish Inventory

Project Code 06-BABL-0103-0606-1998

REACH ATTRIBUTES

Sample Type R

Length (km) 2.16 Elevation (m): upstream 818 downstream 750 UTM (Zone/East/North/ method)
Gradient (%) 3.2 Order 3 Magnitude 31 BGC Zone SBS
Setting Valley Wall Bars ☒ None ☐ Side ☐ Diagonal ☐ Mid ☐ Span ☐ Braid
Open water A Wetland ☐ Mass Movement Not Specified Active Floodplain ☐
Confinement Occasionally Confined Exposed/Eroded Not Specified Width (m)
Coupling Decoupled Islands Not Specified Beaver Dam(s) ☐
Channel Pattern Irregular Meanders Landuse None/natural LWD jam(s) ☐
Riparian Vegetation Mixed C/D Valley Flat Not Specified (C)ontinuous ☐
(D)iscontinuous ☐

SITE

Gazetted Name Local Name Unnamed
Survey Date 1998/09/15 Time 15:08 FIELD UTM(Zone/East/North/Method)
Crew JH/JM Access V2 MAP UTM (Zone/East/North/Method) GIS
Site Length (m) 500 Method GE Fish Card ☒ Incomplete ☐ NID Map 93L.090 NID # 50005

CHANNEL

							Average	Method(s)
Channel Widths (m)	7.7	11.1	4.0	5.2	6.5	5.8	6.7	T
Wetted Widths (m)	3.8	1.0	3.0	5.7	5.5	5.5	4.1	T
Resid. Pool Depths (m)	0.50	0.30	0.45	0.40	0.32	0.46	0.40	T

No Vis.Ch. ☐ Dewatered ☐ Gradients (%) 3.0 2.0 2.5 AL ,
Intermittent ☐ Tributaries ☐ Bankfull Depth (m) 0.7 0.6 0.5 0.6 T

Stage ☐ Low
☒ Med.
☐ High

COVER -		Total	Moderate	LWD Few	Dist.	Evenly Distributed
SWD	LWD	Boulder	Cutbank	Deep Pool	Over Veg	Instream Veg
Sub-Dominant	Sub-Dominant	Sub-Dominant	Sub-Dominant	Sub-Dominant	Dominant	None

Crown Closure
1-20%

Instream Vegetation

☒ None ☐ Moss
☐ Algae ☐ Vasc.

LEFT BANK

Shape Undercut
Riparian Veg. Mixed C/D
Riparian Stage Pole-sapling stage

Texture ☒ Fines ☐ Gravel ☐ Cobble
☐ Boulder ☐ Rock ☐ Man Made

RIGHT BANK

Shape V - shaped (steep sloping or vertical)
Riparian Veg. Mixed C/D
Riparian Stage Pole-sapling stage

Texture ☒ Fines ☐ Gravel ☐ Cobble
☐ Boulder ☐ Rock ☐ Man Made

WATER

Temperature 9 Method T4 pH 7.5 Method P2 EMS #
Conductivity 50 Method S2 Turbidity ☐ Turbid ☐ Medium ☐ Light ☒ Clear Method GE

MORPHOLOGY

BED Dominant Gravels D95(cm) (only 5%larger) 15
MATERIAL Subdominant Cobble D (cm) (moveable) 20

Channel Pattern Sinuous
Coupling Partially Coupled
Confinement Occasionally Confined
Islands Occasional

Morphology Code
RP

Beaver Dam(s) ☐ O1
Eroding Bank(s) ☐ B2
LWD Jam(s) ☐ D3
Sediment Wedges ☐ S3
Bars
☐ None ☐ Mid
☒ Side ☐ Span
☐ Diag. ☐ Braid

Site/Reach Card

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

Reach 3.0

ILP # 1329

Site # 505

ILP Map # 93L.090

Project Name Northwood Pulp and Timber Fish Inventory

Project Code 06-BABL-0103-0606-1998

FEATURES

Type CV Height 2.0 Method T Length Method

Comments Upstream side of culvert

Photograph Roll 501 Frame 18 UTM (Zone/East/North/ Method)

Type CV Height 2.0 Method T Length Method

Comments Downstream side of culvert - perched .5 metres

Photograph Roll 501 Frame 19 UTM (Zone/East/North/ Method)

HABITAT QUALITY

FSZs

Side Chan ☐Flood/Beaver ☐Tribes. ☐Flood Chan ☐Slough ☐

Name

Comments

Rearing Habitat

Excellent rearing habitat

PHOTO DOCUMENTATION

Film Compact Disc Lens / Dir. Comments

Roll 501 Fr 18 CD 274 Im 117 STD D Upstream side of culvert

Roll 501 Fr 19 CD 274 Im 118 STD U Downstream side of culvert

Roll 501 Fr 20 CD Im STD NS Fish - single caught above culvert. Photo did not turn out. No CD image.

Roll 501 Fr 21 CD 274 Im 119 STD U

Roll 501 Fr 22 CD 274 Im 120 STD D

WILDLIFE**COMMENTS**

Form Section Comments

SITE CHANNEL

Fish captured with minimal effort downstream of culvert - upstream reaches are insufficiently seeded due to presence of culvert downstream

Site/Reach Card

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

Reach 2.0
Site # 506

ILP # 1333
ILP Map # 93L.090

Project Name Northwood Pulp and Timber Fish Inventory

Project Code 06-BABL-0103-0606-1998

REACH ATTRIBUTES

Sample Type R

Length (km) .84 Elevation (m): upstream 843 downstream 823 UTM (Zone/East/North/ method)
Gradient (%) 2.4 Order 2 Magnitude 5 BGC Zone SBS
Setting Valley Wall Bars ☒ None ☐ Side ☐ Diagonal ☐ Mid ☐ Span ☐ Braid
Open water A Wetland ☐ Mass Movement Not Specified Active Floodplain ☐
Confinement Unconfined Exposed/Eroded Not Specified Width (m)
Coupling Decoupled Islands Not Specified Beaver Dam(s) ☐
Channel Pattern Sinuous Landuse Logging, with reserves LWD jam(s) ☐
Riparian Vegetation Mixed C/D Valley Flat Not Specified (C)ontinuous ☐
(D)iscontinuous ☐

SITE

Gazetted Name Local Name Unnamed
Survey Date 1998/09/16 Time 09:47 FIELD UTM(Zone/East/North/Method)
Crew JH/JM Access V2 MAP UTM (Zone/East/North/Method) GIS
Site Length (m) 100 Method GE Fish Card ☐ Incomplete ☐ NID Map 93L.090 NID # 50006

CHANNEL

							Average	Method(s)
Channel Widths (m)	0.5	0.5	0.6	0.4	0.6	0.4	0.5	T
Wetted Widths (m)	0.5	0.4	0.4	0.3	0.4		0.4	T
Resid. Pool Depths (m)	0.20	0.10	0.15	0.10	0.10		0.13	T

No Vis.Ch. ☐	Dewatered ☐	Gradients (%)	5.0	5.0	5.0	C ,
Intermittent ☒	Tributaries ☐	Bankfull Depth (m)	0.1	0.1	0.1	T

Stage ☒ Low

☐ Med.

☐ High

COVER -

Total	Abundant	LWD Few	Dist.	Clumped
SWD	LWD	Boulder	Cutbank	Deep Pool
Sub-Dominant	Sub-Dominant	None	Sub-Dominant	None
			Dominant	Sub-Dominant

Crown Closure
1-20%

LEFT BANK

Shape Undercut
Riparian Veg. Mixed C/D
Riparian Stage Pole-sapling stage

Texture ☒ Fines ☐ Gravel ☐ Cobble
☐ Boulder ☐ Rock ☐ Man Made

RIGHT BANK

Shape Undercut
Riparian Veg. Mixed C/D
Riparian Stage Pole-sapling stage

Texture ☒ Fines ☐ Gravel ☐ Cobble
☐ Boulder ☐ Rock ☐ Man Made

Instream Vegetation

☐ None ☒ Moss
☐ Algae ☐ Vasc.

WATER

Temperature	Method	pH	Method	EMS #
Conductivity	Method	Turbidity	☐ Turbid ☐ Medium ☐ Light ☐ Clear	Method GE

MORPHOLOGY

BED Dominant Fines D95(cm) (only 5%larger) 0.1
MATERIAL Subdominant Not Applicable (same as Dominant) D (cm) (moveable) 0.1

Channel Pattern Regular Meanders
Coupling Partially Coupled
Confinement Occasionally Confined
Islands None

Morphology Code
RP

Beaver Dam(s) ☐ O1
Eroding Bank(s) ☐ B2
LWD Jam(s) ☐ D3
Sediment Wedges ☐ S3

Bars
☒ None ☐ Mid
☐ Side ☐ Span
☐ Diag. ☐ Braid

Site/Reach Card

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

Reach 2.0

ILP # 1333

Site # 506

ILP Map # 93L.090

Project Name Northwood Pulp and Timber Fish Inventory

Project Code 06-BABL-0103-0606-1998

FEATURES**HABITAT QUALITY**

FSZs

Side Chan ☐Flood/Beaver ☐Tribes ☐Flood Chan ☐Slough ☐**Name****Comments**

Rearing Habitat Poor quality habitat -some subsurface flows and some dry patches / stagnant water

Spawning Habitat Poor quality habitat - fines as substrate

PHOTO DOCUMENTATION**Film Compact Disc Lens / Dir. Comments**

Roll 501 Fr 23 CD 277 Im 1 STD U

Roll 501 Fr 24 CD 277 Im 2 STD D

WILDLIFE**COMMENTS****Form****Section****Comments**

SITE

WATER

Electroshockable water hard to find

Site/Reach Card

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

Reach 1.0
Site # 507

ILP # 1333
ILP Map # 93L.090

Project Name Northwood Pulp and Timber Fish Inventory

Project Code 06-BABL-0103-0606-1998

REACH ATTRIBUTES

Sample Type R

Length (km) .17 Elevation (m): upstream 823 downstream 818 UTM (Zone/East/North/ method)
Gradient (%) 2.9 Order 2 Magnitude 6 BGC Zone SBS
Setting Valley Wall Bars ☒ None ☐ Side ☐ Diagonal ☐ Mid ☐ Span ☐ Braid
Open water A Wetland ☐ Mass Movement Not Specified Active Floodplain ☐
Confinement Occasionally Confined Exposed/Eroded Not Specified Width (m)
Coupling Partially Coupled Islands Not Specified Beaver Dam(s) ☐
Channel Pattern Straight Landuse Logging, with reserves LWD jam(s) ☐
Riparian Vegetation Mixed C/D Valley Flat Not Specified (C)ontinuous ☐
(D)iscontinuous ☐

SITE

Gazetted Name Local Name Unnamed
Survey Date 1998/09/16 Time 10:41 FIELD UTM(Zone/East/North/Method)
Crew JH/JM Access V2 MAP UTM (Zone/East/North/Method) GIS
Site Length (m) 150 Method GE Fish Card ☒ Incomplete ☐ NID Map 93L.090 NID # 50007

CHANNEL

							Average	Method(s)
Channel Widths (m)	1.5	0.5	0.4	0.6	1.2	0.8	0.8	T
Wetted Widths (m)	1.5	0.4	0.3	0.6	0.4	0.6	0.6	T
Resid. Pool Depths (m)	0.10	0.10	0.12	0.11	0.15	0.25	0.14	T

No Vis.Ch. ☐ Dewatered ☐ Gradients (%) 5.0 5.0 5.0 C ,
Intermittent ☐ Tributaries ☐ Bankfull Depth (m) 0.3 0.3 0.4 0.3 T

Stage ☒ Low
☐ Med.
☐ High

COVER -		Total	Abundant	LWD	Few	Dist.	Clumped
SWD	LWD	Boulder	Cutbank	Deep Pool	Over Veg	Instream Veg	
Trace	Dominant	None	Dominant	Sub-Dominant	Dominant	Sub-Dominant	

Crown Closure
21-40%

Instream Vegetation

☐ None ☒ Moss
☐ Algae ☐ Vasc.

LEFT BANK

Shape Undercut
Riparian Veg. Coniferous
Riparian Stage Mature forest

Texture ☒ Fines ☐ Gravel ☐ Cobble
☐ Boulder ☐ Rock ☐ Man Made

RIGHT BANK

Shape Undercut
Riparian Veg. Coniferous
Riparian Stage Mature forest

Texture ☒ Fines ☐ Gravel ☐ Cobble
☐ Boulder ☐ Rock ☐ Man Made

WATER

Temperature 9 Method T4 pH 9.3 Method P2 EMS #
Conductivity 130 Method S2 Turbidity ☐ Turbid ☐ Medium ☒ Light ☐ Clear Method GE

MORPHOLOGY

BED Dominant Fines D95(cm) (only 5%larger) 3
MATERIAL Subdominant Gravels D (cm) (moveable) 2
Channel Pattern Regular Meanders
Coupling Partially Coupled
Confinement Occasionally Confined
Islands None
Morphology Code RP
Beaver Dam(s) ☐ O1
Eroding Bank(s) ☐ B2
LWD Jam(s) ☐ D3
Sediment Wedges ☐ S3
Bars ☒ None ☐ Mid
☐ Side ☐ Span
☐ Diag. ☐ Braid

Site/Reach Card

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

Reach 1.0

ILP # 1333

Site # 507

ILP Map # 93L.090

Project Name Northwood Pulp and Timber Fish Inventory

Project Code 06-BABL-0103-0606-1998

FEATURES**HABITAT QUALITY**

FSZs

Side Chan ☐Flood/Beaver ☐Tribes ☐Flood Chan ☐Slough ☐**PHOTO DOCUMENTATION**

Film	Compact Disc				Lens / Dir.		Comments
Roll 501	Fr	25	CD 277	Im	3	STD U	dry/intermittent
Roll 501	Fr	26	CD 277	Im	4	STD D	dry/intermittent
Roll 501	Fr	27	CD 277	Im	5	STD U	at bridge crossing
Roll 501	Fr	28	CD 277	Im	6	STD D	at bridge crossing
Roll 501	Fr	29	CD 277	Im	7	STD U	bedrock chutes and falls downstream of site

WILDLIFE**COMMENTS**

Form	Section	Comments
SITE	CHANNEL	Upstream extent of reach turns dry/intermittent. High gradient chutes and falls at approx. 400 metres downstream of proposed bridge crossing.

FDIS Fish Form

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

Reach # 1.0

ILP # 1333

ILP Map # 93L.090

Project Name Northwood Pulp and Timber Fish Inventory

Project Code 06-BABL-0103-0606-1998

Lake / Stream	S	SITE / METHOD	Waterbody ID
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Permit 34770-20 Date: 1998/09/16 To: 1998/09/16 Crew: JH/JM Resample ☐

Site	NID MAP	NID	UTM:Zone/East/North/ Mthd	MTD/NO	Temp	Cond	Turbid	Comment
507	93L.090	50007		EF 1	9.0	130	C	

GEAR SETTINGS

Site	MTD/NO	H/P	Date In	Time In	Date Out	Time Out	Comment
507	EF 1	1	1998/09/16	10:45	1998/09/16	11:09	

NET/TRAP SPECIFICATIONS

ELECTROFISHER SPECIFICATIONS

Site	MTD/NO	H/P	Encl	Sec.	Length	Width	Volts	Hz	Pulse	Make	Model
507	EF 1	1	O	650	150.0	1.0	300	60	5	SR	POW-12A

FISH SUMMARY

Site	MTD/NO	H/P	Species	Stage	Age	Total #	Lgth (Min/Max)	Activity	Comment
507	EF	1	1	NFC		0			

INDIVIDUAL FISH DATA

COMMENTS

Section	Comments
WATERBODY	No fish caught

Site/Reach Card

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

Reach 7.0
Site # 508

ILP # 1309
ILP Map # 93L.090

Project Name Northwood Pulp and Timber Fish Inventory

Project Code 06-BABL-0103-0606-1998

REACH ATTRIBUTES

Sample Type R

Length (km) 1.87 Elevation (m): upstream 958 downstream 863 UTM (Zone/East/North/ method)
Gradient (%) 5.1 Order 3 Magnitude 7 BGC Zone SBS
Setting Valley Wall Bars ☒ None ☐ Side ☐ Diagonal ☐ Mid ☐ Span ☐ Braid
Open water A Wetland ☐ Mass Movement Not Specified Active Floodplain ☐
Confinement Occasionally Confined Exposed/Eroded Not Specified Width (m)
Coupling Partially Coupled Islands Not Specified Beaver Dam(s) ☐
Channel Pattern Sinuous Landuse None/natural LWD jam(s) ☐
Riparian Vegetation Coniferous Valley Flat Not Specified (C)ontinuous ☐
(D)iscontinuous ☐

SITE

Gazetted Name Local Name Unnamed
Survey Date 1998/09/16 Time 11:35 FIELD UTM(Zone/East/North/Method)
Crew JH/JM Access V2 MAP UTM (Zone/East/North/Method) GIS
Site Length (m) 400 Method GE Fish Card ☒ Incomplete ☐ NID Map 93L.090 NID # 50008

CHANNEL

							Average	Method(s)
Channel Widths (m)	4.3	4.6	2.2	2.4	3.1	5.1	3.6	T
Wetted Widths (m)	2.7	2.1	1.6	2.3	1.9	2.6	2.2	T
Resid. Pool Depths (m)	0.10	0.10	0.30	0.10	0.15	0.10	0.14	T

No Vis.Ch. ☐	Dewatered ☐	Gradients (%)	4.0	4.0	4.0	AL ,
Intermittent ☐	Tributaries ☐	Bankfull Depth (m)	0.4	0.5	0.4	T

Stage ☒ Low
☐ Med.
☐ High

COVER -		Total	Moderate	LWD Few	Dist.	Clumped
SWD	LWD	Boulder	Cutbank	Deep Pool	Over Veg	Instream Veg
Trace	Trace	None	Sub-Dominant	Sub-Dominant	Dominant	Sub-Dominant

Crown Closure
1-20%

Instream Vegetation

☐ None ☐ Moss
☒ Algae ☐ Vasc.

LEFT BANK

Shape Undercut
Riparian Veg. Deciduous
Riparian Stage Pole-sapling stage

Texture ☐ Fines ☒ Gravel ☐ Cobble
☐ Boulder ☐ Rock ☐ Man Made

RIGHT BANK

Shape Undercut
Riparian Veg. Deciduous
Riparian Stage Pole-sapling stage

Texture ☐ Fines ☒ Gravel ☐ Cobble
☐ Boulder ☐ Rock ☐ Man Made

WATER

Temperature 6 Method T4 pH 8.8 Method P2 EMS #
Conductivity 10 Method S2 Turbidity ☐ Turbid ☐ Medium ☐ Light ☒ Clear Method GE

MORPHOLOGY

BED Dominant Gravels D95(cm) (only 5%larger) 10
MATERIAL Subdominant Cobble D (cm) (moveable) 12
Channel Pattern Regular Meanders
Coupling Partially Coupled
Confinement Occasionally Confined
Islands None

Morphology Code
RP

Beaver Dam(s) ☐ O1
Eroding Bank(s) ☐ B2
LWD Jam(s) ☐ D3
Sediment Wedges ☐ S3

Bars
☐ None ☐ Mid
☒ Side ☐ Span
☐ Diag. ☐ Braid

Site/Reach Card

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

Reach 7.0

ILP # 1309

Site # 508

ILP Map # 93L.090

Project Name Northwood Pulp and Timber Fish Inventory

Project Code 06-BABL-0103-0606-1998

FEATURES

Type BR Height 1.5 Method T Length Method

Comments

Photograph Roll 501 Frame 30 UTM (Zone/East/North/ Method)

HABITAT QUALITY

FSZs

Side Chan ☐Flood/Beaver ☐Tribes ☐Flood Chan ☐Slough ☐

Name

Comments

Rearing Habitat

Excellent rearing habitat

Spawning Habitat

Excellent spawning habitat

PHOTO DOCUMENTATION

Film	Compact Disc				Lens / Dir.		Comments
Roll 501	Fr	30	CD 277	Im	8	STD U	Bridge
Roll 501	Fr	31	CD 277	Im	9	STD U	
Roll 501	Fr	32	CD 277	Im	10	STD D	
Roll 501	Fr	33	CD	Im		STD NS	Fish. Photo did not turn out. No CD image.

WILDLIFE**COMMENTS**

FDIS Fish Form

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

Reach # 7.0

ILP # 1309

ILP Map # 93L.090

Project Name Northwood Pulp and Timber Fish Inventory

Project Code 06-BABL-0103-0606-1998

Lake / Stream S SITE/METHOD Waterbody ID

Permit 34770-20 Date: 1998/09/16 To: 1998/09/16 Crew: JH/JM Resample ☐

Site	NID MAP	NID	UTM:Zone/East/North/ Mthd	MTD/NO	Temp	Cond	Turbid	Comment
508	93L.090	50008		EF 1	6.0	10	C	

GEAR SETTINGS

Site	MTD/NO	H/P	Date In	Time In	Date Out	Time Out	Comment
508	EF 1	1	1998/09/16	11:35	1998/09/16	12:00	

NET/TRAP SPECIFICATIONS

ELECTROFISHER SPECIFICATIONS

Site	MTD/NO	H/P	Encl	Sec.	Length	Width	Volts	Hz	Pulse	Make	Model
508	EF 1	1	O	123	300.0	2.0	600	60	5	SR	POW-12A

FISH SUMMARY

Site	MTD/NO	H/P	Species	Stage	Age	Total #	Lgth (Min/Max)	Activity	Comment
508	EF	1 1	RB	F		1	40 40	R	
508	EF	1 1	RB	J		1	80 80	R	

INDIVIDUAL FISH DATA

Site	MTD/NO	H/P	Species	Length	Weight	Age			Genetic		Photograph		Comment	
				(mm)	(g)	Sex	Mat	Str / Smpl# / Age	Vch#	Str/ Smpl#	Roll Fr.			
508	EF	1	1	RB	40		U	U	SC	504	0+		501 33	Photo did not turn out. No CD image.
508	EF	1	1	RB	80		U	U	SC	505	1+		501 33	Photo did not turn out. No CD image.

COMMENTS

Section	Comments
WATERBODY	Additional fish visually observed

Site/Reach Card

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

Reach 2.0

ILP # 10311

Site # 509

ILP Map # 93L.100

Project Name Northwood Pulp and Timber Fish Inventory

Project Code 06-BABL-0103-0606-1998

REACH ATTRIBUTES

Sample Type R

Length (km) .80 Elevation (m): upstream 1100 downstream 1080 UTM (Zone/East/North/ method)
 Gradient (%) 2.5 Order 1 Magnitude 1 BGC Zone SBS
 Setting Valley Wall Bars ☒ None ☐ Side ☐ Diagonal ☐ Mid ☐ Span ☐ Braid
 Open water A Wetland ☐ Mass Movement Not Specified Active Floodplain ☐
 Confinement Occasionally Confined Exposed/Eroded Not Specified Width (m)
 Coupling Decoupled Islands Not Specified Beaver Dam(s) ☐
 Channel Pattern Irregular, Wandering Landuse None/natural LWD jam(s) ☐
 Riparian Vegetation Mixed C/D Valley Flat Not Specified (C)ontinuous ☐
 (D)iscontinuous ☐

SITE

Gazetted Name Local Name Unnamed
 Survey Date 1998/09/16 Time 13:23 FIELD UTM(Zone/East/North/Method)
 Crew JH/JM Access V2 MAP UTM (Zone/East/North/Method) GIS
 Site Length (m) 100 Method GE Fish Card ☐ Incomplete ☐ NID Map 93L.090 NID # 50009

CHANNEL

							Average	Method(s)
Channel Widths (m)	0.7	0.8	0.5	0.4	0.6	0.3	0.6	T
Wetted Widths (m)	0.0	0.4	0.4	0.0	0.3	0.0	0.2	T
Resid. Pool Depths (m)	0.00	0.15	0.10	0.00	0.15	0.00	0.07	T

No Vis.Ch. ☐	Dewatered ☐	Gradients (%)	9.0	4.0	6.5	C ,
Intermittent ☒	Tributaries ☐	Bankfull Depth (m)	0.1	0.1	0.1	T

Stage ☒ Low
☐ Med.
☐ High

COVER -		Total	Trace	LWD	Few	Dist.	Clumped
SWD	LWD	Boulder	Cutbank	Deep Pool	Over Veg	Instream Veg	
Sub-Dominant	Dominant	None	Dominant	None	Sub-Dominant	None	

Crown Closure
 1-20%

Instream Vegetation
☒ None ☐ Moss
☐ Algae ☐ Vasc.

LEFT BANK
 Shape Undercut
 Riparian Veg. Shrubs
 Riparian Stage Non-vegetated or initial stage f
 Texture ☒ Fines ☐ Gravel ☐ Cobble
☐ Boulder ☐ Rock ☐ Man Made

RIGHT BANK
 Shape Undercut
 Riparian Veg. Coniferous
 Riparian Stage Pole-sapling stage
 Texture ☒ Fines ☐ Gravel ☐ Cobble
☐ Boulder ☐ Rock ☐ Man Made

WATER

Temperature Method T4 pH Method P2 EMS #
 Conductivity Method Turbidity ☐ Turbid ☐ Medium ☒ Light ☐ Clear Method GE

MORPHOLOGY

BED Dominant Fines D95(cm) (only 5%larger) 0.1
 MATERIAL Subdominant Not Applicable (same as Dominant) D (cm) (moveable) 0.1
 Channel Pattern Regular Meanders Beaver Dam(s) ☐ O1
 Coupling Partially Coupled Eroding Bank(s) ☐ B2 ☒ None ☐ Mid
 Confinement Occasionally Confined LWD Jam(s) ☐ D3 ☐ Side ☐ Span
 Islands None Sediment Wedges ☐ S3 ☐ Diag. ☐ Braid
 Morphology Code
 RP

Site/Reach Card

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

Reach 2.0

ILP # 10311

Site # 509

ILP Map # 93L.100

Project Name Northwood Pulp and Timber Fish Inventory

Project Code 06-BABL-0103-0606-1998

FEATURES**HABITAT QUALITY**

FSZs

Side Chan ☐Flood/Beaver ☐Tribes ☐Flood Chan ☐Slough ☐**Name****Comments**

Spawning Habitat

Poor spawning habitat quality - fines as substrate

PHOTO DOCUMENTATION**Film****Compact Disc****Lens / Dir. Comments**

Roll 501 Fr 34 CD 277 Im 11 STD U

Roll 501 Fr 35 CD 277 Im 12 STD D

WILDLIFE**COMMENTS**

Site/Reach Card

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

Reach 2.0
Site # 510

ILP # 10328
ILP Map # 93L.100

Project Name Northwood Pulp and Timber Fish Inventory

Project Code 06-BABL-0103-0606-1998

REACH ATTRIBUTES

Sample Type B

Length (km) 2.10 Elevation (m): upstream 960 downstream 800 UTM (Zone/East/North/ method)
Gradient (%) 7.6 Order 2 Magnitude 2 BGC Zone SBS
Setting Valley Wall Bars ☐ None ☒ Side ☐ Diagonal ☐ Mid ☐ Span ☐ Braid
Open water A Wetland ☐ Mass Movement Medium impact; some debris Active Floodplain ☐
Confinement Confined Exposed/Eroded Not Specified Width (m)
Coupling Partially Coupled Islands Not Specified Beaver Dam(s) ☐
Channel Pattern Irregular, Wandering Landuse None/natural LWD jam(s) ☐
Riparian Vegetation Coniferous Valley Flat Not Specified (C)ontinuous ☐
(D)iscontinuous ☐

SITE

Gazetted Name Local Name Unnamed
Survey Date 1998/09/16 Time 14:31 FIELD UTM(Zone/East/North/Method)
Crew JH/JM Access V2 MAP UTM (Zone/East/North/Method) GIS
Site Length (m) 250 Method GE Fish Card ☒ Incomplete ☐ NID Map 93L.100 NID # 50010

CHANNEL

							Average	Method(s)
Channel Widths (m)	2.4	1.3	1.5	2.3	2.4	1.5	1.9	T
Wetted Widths (m)	0.5	1.2	0.5	2.0	0.4	0.7	0.9	T
Resid. Pool Depths (m)	0.20	0.10	0.15	0.25	0.10	0.12	0.15	T

No Vis.Ch. ☐ Dewatered ☐ Gradients (%) 5.0 7.0 6.0 C,
Intermittent ☐ Tributaries ☐ Bankfull Depth (m) 0.3 0.4 0.3 0.3 T

Stage ☒ Low
☐ Med.
☐ High

COVER -		Total	Abundant	LWD	Few	Dist.	Clumped
SWD	LWD	Boulder	Cutbank	Deep Pool	Over Veg	Instream Veg	
Sub-Dominant	Dominant	None	Dominant	Dominant	Dominant	Sub-Dominant	

Crown Closure
1-20%

Instream Vegetation

☐ None ☒ Moss
☐ Algae ☐ Vasc.

LEFT BANK

Shape Undercut
Riparian Veg. Deciduous
Riparian Stage Pole-sapling stage

Texture ☒ Fines ☐ Gravel ☐ Cobble
☐ Boulder ☐ Rock ☐ Man Made

RIGHT BANK

Shape Undercut
Riparian Veg. Deciduous
Riparian Stage Pole-sapling stage

Texture ☒ Fines ☐ Gravel ☐ Cobble
☐ Boulder ☐ Rock ☐ Man Made

WATER

Temperature 8 Method T4 pH 9.4 Method P2 EMS #
Conductivity 90 Method S2 Turbidity ☐ Turbid ☐ Medium ☐ Light ☒ Clear Method GE

MORPHOLOGY

BED Dominant Gravels
MATERIAL Subdominant Cobble

D95(cm) (only 5%larger) 6
D (cm) (moveable) 12

Channel Pattern Regular Meanders
Coupling Partially Coupled
Confinement Occasionally Confined
Islands None

Morphology Code
RP

Beaver Dam(s) ☐ O1
Eroding Bank(s) ☐ B2
LWD Jam(s) ☐ D3
Sediment Wedges ☐ S3
Bars
☐ None ☐ Mid
☒ Side ☐ Span
☐ Diag. ☐ Braid

Site/Reach Card

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

Reach 2.0

ILP # 10328

Site # 510

ILP Map # 93L.100

Project Name Northwood Pulp and Timber Fish Inventory

Project Code 06-BABL-0103-0606-1998

FEATURES

Type CV Height .6 Method T Length Method

Comments Culvert

Photograph Roll 502 Frame 1 UTM (Zone/East/North/ Method)

Type CV Height .6 Method T Length Method

Comments Culvert - perched approx. .5 metres

Photograph Roll 502 Frame 2 UTM (Zone/East/North/ Method)

HABITAT QUALITY

FSZs

Side Chan ☐Flood/Beaver ☐Tribes ☐Flood Chan ☐Slough ☐**PHOTO DOCUMENTATION**

Film	Compact Disc	Lens / Dir.	Comments
Roll 501 Fr 36 CD 277 Im 13 STD U			
Roll 501 Fr 37 CD 277 Im 14 STD D			
Roll 502 Fr 1 CD 277 Im 15 STD U			culvert - downstream side
Roll 502 Fr 2 CD 277 Im 16 STD D			culvert - upstream side

WILDLIFE**COMMENTS**

Form	Section	Comments
SITE	WATER	Electroshockable water difficult to find

FDIS Fish Form

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

Reach # 2.0

ILP # 10328

ILP Map # 93L.100

Project Name Northwood Pulp and Timber Fish Inventory

Project Code 06-BABL-0103-0606-1998

Lake / Stream		S		SITE / METHOD				Waterbody ID			
Permit	34770-20	Date:	1998/09/16	To:	1998/09/16	Crew:	JH/JM	Resample ☐			
Site	NID MAP	NID	UTM:Zone/East/North/ Mthd		MTD/NO	Temp	Cond	Turbid	Comment		
510	93L.100	50010			EF 1	8.0	90	C			
GEAR SETTINGS											
Site	MTD/NO	H/P	Date In	Time In	Date Out	Time Out	Comment				
510	EF 1	1	1998/09/16	14:35	1998/09/16	14:52					
NET/TRAP SPECIFICATIONS											
ELECTROFISHER SPECIFICATIONS											
Site	MTD/NO	H/P	Encl	Sec.	Length	Width	Volts	Hz	Pulse	Make	Model
510	EF 1	1	O	353	250.0	2.0	500	60	5	SR	POW-12A
FISH SUMMARY											
Site	MTD/NO	H/P	Species	Stage	Age	Total #	Lgth (Min/Max)	Activity	Comment		
510	EF	1	1	NFC		0					
INDIVIDUAL FISH DATA											
COMMENTS											

Site/Reach Card

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

Reach 2.0

ILP # 10325

Site # 511

ILP Map # 93L.100

Project Name Northwood Pulp and Timber Fish Inventory

Project Code 06-BABL-0103-0606-1998

REACH ATTRIBUTES

Sample Type R

Length (km) 1.22 Elevation (m): upstream 880 downstream 760 UTM (Zone/East/North/ method)
 Gradient (%) 9.8 Order 2 Magnitude 3 BGC Zone SBS
 Setting Valley Wall Bars ☒ None ☐ Side ☐ Diagonal ☐ Mid ☐ Span ☐ Braid
 Open water A Wetland ☐ Mass Movement Not Specified Active Floodplain ☐
 Confinement Frequently Confined Exposed/Eroded Not Specified Width (m)
 Coupling Decoupled Islands Not Specified Beaver Dam(s) ☐
 Channel Pattern Irregular, Wandering Landuse None/natural LWD jam(s) ☐
 Riparian Vegetation Mixed C/D Valley Flat Not Specified (C)ontinuous ☐
 (D)iscontinuous ☐

SITE

Gazetted Name Local Name Unnamed
 Survey Date 1998/09/16 Time 15:00 FIELD UTM(Zone/East/North/Method)
 Crew JH/JM Access V2 MAP UTM (Zone/East/North/Method) GIS
 Site Length (m) 250 Method GE Fish Card ☒ Incomplete ☐ NID Map 93L.100 NID # 50011

CHANNEL

							Average	Method(s)
Channel Widths (m)	1.8	2.4	2.1	2.5	1.7	1.5	2.0	T
Wetted Widths (m)	0.6	2.0	0.8	0.5	1.2	1.0	1.0	T
Resid. Pool Depths (m)	0.20	0.10	0.25	0.10	0.20	0.15	0.17	T

No Vis.Ch. ☐ Dewatered ☐ Gradients (%) 9.0 5.0 7.0 C ,
 Intermittent ☐ Tributaries ☐ Bankfull Depth (m) 0.5 0.5 0.6 0.5 T

Stage ☒ Low
☐ Med.
☐ High

COVER -		Total	Abundant	LWD	Abundant	Dist.	Evenly Distributed
SWD	LWD	Boulder	Cutbank	Deep Pool	Over Veg	Instream Veg	
Dominant	Dominant	None	Dominant	Sub-Dominant	Sub-Dominant	None	

Crown Closure
 1-20%

Instream Vegetation
☒ None ☐ Moss
☐ Algae ☐ Vasc.

LEFT BANK
 Shape Undercut
 Riparian Veg. Deciduous
 Riparian Stage Pole-sapling stage
 Texture ☒ Fines ☐ Gravel ☐ Cobble
☐ Boulder ☐ Rock ☐ Man Made

RIGHT BANK
 Shape Undercut
 Riparian Veg. Deciduous
 Riparian Stage Pole-sapling stage
 Texture ☒ Fines ☐ Gravel ☐ Cobble
☐ Boulder ☐ Rock ☐ Man Made

WATER

Temperature 7 Method T4 pH 9.1 Method P2 EMS #
 Conductivity 80 Method S2 Turbidity ☐ Turbid ☐ Medium ☐ Light ☒ Clear Method GE

MORPHOLOGY

BED Dominant Gravels D95(cm) (only 5% larger) 3
 MATERIAL Subdominant Cobble D (cm) (moveable) 8
 Channel Pattern Regular Meanders
 Coupling Partially Coupled
 Confinement Occasionally Confined
 Islands None
 Morphology Code RP
 Beaver Dam(s) ☐ O1
 Eroding Bank(s) ☐ B2
 LWD Jam(s) ☐ D3
 Sediment Wedges ☐ S3
 Bars
☐ None ☐ Mid
☒ Side ☐ Span
☐ Diag. ☐ Braid

Site/Reach Card

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

Reach 2.0
Site # 511ILP # 10325
ILP Map # 93L.100

Project Name Northwood Pulp and Timber Fish Inventory

Project Code 06-BABL-0103-0606-1998

FEATURES

Type CV Height 1.0 Method T Length Method

Comments Culvert - upstream side

Photograph Roll 502 Frame 5 UTM (Zone/East/North/ Method)

Type CV Height 1.0 Method T Length Method

Comments Culvert - downstream side

Photograph Roll 502 Frame 6 UTM (Zone/East/North/ Method)

HABITAT QUALITY

FSZs

Side Chan ☐Flood/Beaver ☐Tribes. ☐Flood Chan ☐Slough ☐

Name Comments

Rearing Habitat Excellent rearing habitat - however sections of 10 to 15% gradient downstream of site potential barrier

Spawning Habitat Excellent spawning habitat - however sections of 10 to 15% gradient downstream of site potential barrier

PHOTO DOCUMENTATION

Film Compact Disc Lens / Dir. Comments

Roll 502 Fr 3 CD 277 Im 17 STD U

Roll 502 Fr 4 CD 277 Im 18 STD D

Roll 502 Fr 5 CD 277 Im 19 STD D culvert - upstream side

Roll 502 Fr 6 CD 277 Im 20 STD U culvert - downstream side

WILDLIFE**COMMENTS**

Form Section Comments

SITE CHANNEL Several sections of 10 to 15% gradient downstream of site - potential barrier downstream - several cascades

Site/Reach Card

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

Reach 3.0
Site # 512

ILP # 10323
ILP Map # 93L.100

Project Name Northwood Pulp and Timber Fish Inventory

Project Code 06-BABL-0103-0606-1998

REACH ATTRIBUTES

Sample Type B

Length (km) 2.40 Elevation (m): upstream 1020 downstream 780 UTM (Zone/East/North/ method)
Gradient (%) 10.0 Order 1 Magnitude 1 BGC Zone SBS
Setting Valley Wall Bars ☒ None ☐ Side ☐ Diagonal ☐ Mid ☐ Span ☐ Braid
Open water A Wetland ☐ Mass Movement Medium impact; some debris Active Floodplain ☐
Confinement Frequently Confined Exposed/Eroded Not Specified Width (m)
Coupling Partially Coupled Islands Not Specified Beaver Dam(s) ☐
Channel Pattern Irregular, Wandering Landuse None/natural LWD jam(s) ☐
Riparian Vegetation Coniferous Valley Flat Not Specified (C)ontinuous ☐
(D)iscontinuous ☐

SITE

Gazetted Name Local Name Unnamed
Survey Date 1998/09/16 Time 15:25 FIELD UTM(Zone/East/North/Method)
Crew JH/JM Access V2 MAP UTM (Zone/East/North/Method) GIS
Site Length (m) 150 Method GE Fish Card ☐ Incomplete ☐ NID Map 93L.100 NID # 50012

CHANNEL

							Average	Method(s)
Channel Widths (m)	0.8	1.5	0.9	1.2	0.5	0.8	0.9	T
Wetted Widths (m)	0.5	0.0	0.0	0.0	0.0	0.2	0.1	T
Resid. Pool Depths (m)	0.10	0.00	0.00	0.00	0.00	0.10	0.03	T

No Vis.Ch. ☐	Dewatered ☐	Gradients (%)	15.0	7.0	11.0	C ,
Intermittent ☒	Tributaries ☐	Bankfull Depth (m)	0.2	0.1	0.1	T

Stage ☒ Low
☐ Med.
☐ High

COVER -		Total	Abundant	LWD	Abundant	Dist.	Clumped
SWD	LWD	Boulder	Cutbank	Deep Pool	Over Veg	Instream Veg	
Dominant	Dominant	None	Sub-Dominant	None	Dominant	None	

Crown Closure
1-20%

Instream Vegetation

☒ None ☐ Moss
☐ Algae ☐ Vasc.

LEFT BANK

Shape Undercut
Riparian Veg. Deciduous
Riparian Stage Pole-sapling stage

Texture ☒ Fines ☐ Gravel ☐ Cobble
☐ Boulder ☐ Rock ☐ Man Made

RIGHT BANK

Shape Undercut
Riparian Veg. Deciduous
Riparian Stage Pole-sapling stage

Texture ☒ Fines ☐ Gravel ☐ Cobble
☐ Boulder ☐ Rock ☐ Man Made

WATER

Temperature Method T4 pH Method P2 EMS #
Conductivity Method Turbidity ☐ Turbid ☐ Medium ☐ Light ☐ Clear Method GE

MORPHOLOGY

BED Dominant Fines D95(cm) (only 5%larger) 0.1
MATERIAL Subdominant Not Applicable (same as Dominant) D (cm) (moveable) 0.1

Channel Pattern Regular Meanders
Coupling Partially Coupled
Confinement Occasionally Confined
Islands None

Morphology Code
RP

Beaver Dam(s) ☐ O1
Eroding Bank(s) ☐ B2 ☒ None ☐ Mid
LWD Jam(s) ☐ D3 ☐ Side ☐ Span
Sediment Wedges ☐ S3 ☐ Diag. ☐ Braid

Site/Reach Card

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

Reach 3.0

ILP # 10323

Site # 512

ILP Map # 93L.100

Project Name Northwood Pulp and Timber Fish Inventory

Project Code 06-BABL-0103-0606-1998

FEATURES**HABITAT QUALITY**

FSZs

Side Chan ☐Flood/Beaver ☐Tribes ☐Flood Chan ☐Slough ☐

Name	Comments
Rearing Habitat	Poor rearing habitat - dry sections
Spawning Habitat	Poor spawning habitat - fines as substrate

PHOTO DOCUMENTATION

Film	Compact Disc	Lens / Dir.	Comments
Roll 502 Fr 7 CD 277 Im 21 STD U	dry/intermittent channel		
Roll 502 Fr 8 CD 277 Im 22 STD D	dry/intermittent		

WILDLIFE

Group	Observations
BIR	grouse

COMMENTS

Site/Reach Card

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

Reach 4.0
Site # 513

ILP # 71324
ILP Map # 93K.071

Project Name Northwood Pulp and Timber Fish Inventory

Project Code 06-BABL-0103-0606-1998

REACH ATTRIBUTES						Sample Type	R
Length (km)	.33	Elevation (m): upstream	838	downstream	820	UTM (Zone/East/North/ method)	
Gradient (%)	5.5	Order	1	Magnitude	1	BGC Zone	SBS
Setting	Plain/Large Plateau		Bars		☒ None	☐ Side	☐ Diagonal
					☐ Mid	☐ Span	☐ Braid
Open water	A	Wetland	☐	Mass Movement	Not Specified		Active Floodplain
Confinement	Unconfined		Exposed/Eroded		Unknown, Not visible		Width (m)
Coupling	Decoupled		Islands		None Visible		Beaver Dam(s)
Channel Pattern	Sinuous		Landuse		None/natural		LWD jam(s)
Riparian Vegetation	Mixed C/D		Valley Flat		No valley flat on either bank		(C)ontinuous
							(D)iscontinuous

SITE			
Gazetted Name	Local Name Unnamed		
Survey Date	1998/09/17	Time	10:28
Crew	JM/SW	Access	H
Site Length (m)	100	Method	GE
Fish Card	☐	Incomplete	☐
NID Map	93K.071	NID #	50013

CHANNEL							Average	Method(s)	
Channel Widths (m)	1.0	0.6	0.9	1.0	0.6	0.8	0.8	T	
Wetted Widths (m)		0.4	0.7				0.6	T	
Resid. Pool Depths (m)		0.25					0.25	T	
No Vis.Ch.	☐	Dewatered	☐	Gradients (%)		3.0	3.0	3.0	AL ,
Intermittent	☒	Tributaries	☐	Bankfull Depth (m)		0.2		0.2	T

Stage	☒ Low ☐ Med. ☐ High	COVER -							
		Total	Abundant	LWD	Few	Dist.	Evenly Distributed		
		SWD	LWD	Boulder	Cutbank	Deep Pool	Over Veg	Instream Veg	
		Trace	Sub-Dominant	None	Trace	Trace	Dominant	Trace	
Crown Closure	1-20%	LEFT BANK				RIGHT BANK			
Instream Vegetation		Shape Undercut				Shape Undercut			
		Riparian Veg. Deciduous				Riparian Veg. Deciduous			
		Riparian Stage Shrub/herb stage				Riparian Stage Shrub/herb stage			
☐ None	☒ Moss	Texture	☒ Fines	☐ Gravel	☐ Cobble	Texture	☒ Fines	☐ Gravel	☐ Cobble
☐ Algae	☒ Vasc.		☐ Boulder	☐ Rock	☐ Man Made		☐ Boulder	☐ Rock	☐ Man Made

WATER			
Temperature	Method T4	pH	Method P2
Conductivity	Method S2	Turbidity	☐ Turbid ☐ Medium ☐ Light ☐ Clear
			Method GE

MORPHOLOGY			
BED	Dominant Fines	D95(cm) (only 5%larger)	0.1
MATERIAL	Subdominant Not Applicable (same as Dominant)	D (cm) (moveable)	0.1
Channel Pattern	Irregular Meanders	Beaver Dam(s)	☐ O1
Coupling	Partially Coupled	Eroding Bank(s)	☐ B2
Confinement	Unconfined	LWD Jam(s)	☐ D3
Islands	None	Sediment Wedges	☐ S3
Morphology Code		Bars	
RP		☒ None ☐ Mid	
		☐ Side ☐ Span	
		☐ Diag. ☐ Braid	

Site/Reach Card

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

Reach 4.0

ILP # 71324

Site # 513

ILP Map # 93K.071

Project Name Northwood Pulp and Timber Fish Inventory

Project Code 06-BABL-0103-0606-1998

FEATURES**HABITAT QUALITY**

FSZs

Side Chan ☐Flood/Beaver ☐Tribes ☐Flood Chan ☐Slough ☐

Name	Comments
Rearing Habitat	Poor rearing habitat due to ephemeral nature
Spawning Habitat	Poor spawning habitat due to fines as substrate

PHOTO DOCUMENTATION

Film	Compact Disc	Lens / Dir.	Comments
Roll 502 Fr 10 CD 277 Im 24 STD D	dry channel		
Roll 502 Fr 9 CD 277 Im 23 STD U	dry channel		

WILDLIFE**COMMENTS**

Form	Section	Comments
SITE	CHANNEL	Reach four is ephemeral - accesible to fish but poor habitat

Site/Reach Card

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

Reach 2.0

ILP # 71327

Site # 514

ILP Map # 93K.071

Project Name Northwood Pulp and Timber Fish Inventory

Project Code 06-BABL-0103-0606-1998

REACH ATTRIBUTES

Sample Type R

Length (km) .67 Elevation (m): upstream 889 downstream 880 UTM (Zone/East/North/ method)
 Gradient (%) 1.3 Order 1 Magnitude 1 BGC Zone SBS
 Setting Plain/Large Plateau Bars ☒ None ☐ Side ☐ Diagonal ☐ Mid ☐ Span ☐ Braid
 Open water A Wetland ☐ Mass Movement Low or no impact to channel; Active Floodplain ☐
 Confinement Occasionally Confined Exposed/Eroded Unknown, Not visible Width (m)
 Coupling Decoupled Islands None Visible Beaver Dam(s) ☐
 Channel Pattern Irregular, Wandering Landuse None/natural LWD jam(s) ☐
 Riparian Vegetation Coniferous Valley Flat No valley flat on either bank (C)ontinuous ☐
 (D)iscontinuous ☐

SITE

Gazetted Name Local Name Unnamed
 Survey Date 1998/09/17 Time 12:00 FIELD UTM(Zone/East/North/Method)
 Crew JM/SW Access H MAP UTM (Zone/East/North/Method) GIS
 Site Length (m) 250 Method HC Fish Card ☒ Incomplete ☐ NID Map 93K.071 NID # 50014

CHANNEL

	Average						Method(s)
Channel Widths (m)	2.5	2.6	3.2	2.9	2.5	2.7	T
Wetted Widths (m)	0.2	0.5	0.8	0.7	1.6	0.9	T
Resid. Pool Depths (m)	0.20		0.15			0.17	T

No Vis.Ch. ☐	Dewatered ☐	Gradients (%)	4.0	4.0	4.0	AL ,
Intermittent ☐	Tributaries ☐	Bankfull Depth (m)	0.2	0.3	0.3	T

Stage ☒ Low
☐ Med.
☐ High

COVER -		Total	Moderate	LWD Few	Dist.	Evenly Distributed
SWD	LWD	Boulder	Cutbank	Deep Pool	Over Veg	Instream Veg
Sub-Dominant	Sub-Dominant	None	None	None	Dominant	None

Crown Closure
 1-20%

Instream Vegetation
☒ None ☐ Moss
☐ Algae ☐ Vasc.

LEFT BANK

Shape Sloping (gradual or shallow sloping)
 Riparian Veg. Deciduous
 Riparian Stage Shrub/herb stage

Texture ☒ Fines ☐ Gravel ☐ Cobble
☐ Boulder ☐ Rock ☐ Man Made

RIGHT BANK

Shape Sloping (gradual or shallow sloping)
 Riparian Veg. Deciduous
 Riparian Stage Shrub/herb stage

Texture ☒ Fines ☐ Gravel ☐ Cobble
☐ Boulder ☐ Rock ☐ Man Made

WATER

Temperature 8 Method T4 pH 9.2 Method P2 EMS #
 Conductivity 80 Method S2 Turbidity ☐ Turbid ☐ Medium ☐ Light ☒ Clear Method GE

MORPHOLOGY

BED Dominant Cobble
 MATERIAL Subdominant Gravels

D95(cm) (only 5%larger) 10
 D (cm) (moveable) 5

Channel Pattern Sinuous
 Coupling Decoupled
 Confinement Occasionally Confined
 Islands None

Morphology Code
 RP

Beaver Dam(s) ☐ O1
 Eroding Bank(s) ☐ B2 ☐ None ☐ Mid
 LWD Jam(s) ☐ D3 ☒ Side ☐ Span
 Sediment Wedges ☐ S3 ☐ Diag. ☐ Braid

Site/Reach Card

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

Reach 2.0

ILP # 71327

Site # 514

ILP Map # 93K.071

Project Name Northwood Pulp and Timber Fish Inventory

Project Code 06-BABL-0103-0606-1998

FEATURES**HABITAT QUALITY**

FSZs

Side Chan ☐Flood/Beaver ☐Tribes ☐Flood Chan ☐Slough ☐**Name****Comments**

Rearing Habitat

Fair habitat at higher flows

Spawning Habitat

poor habitat due to low flows

PHOTO DOCUMENTATION

Film	Compact Disc	Lens / Dir.	Comments
Roll 502 Fr 11 CD 277 Im 25 STD U	low flows visible		
Roll 502 Fr 12 CD 277 Im 26 STD D			

WILDLIFE**COMMENTS****Form****Section****Comments**

SITE

WATER

Subsurface flows in sections - reach one was observed to have no flow (dry intermittent). Electroshockable water hard to find.

SITE

CHANNEL

No barriers from reach one other than lack of water

FDIS Fish Form

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

Reach # 2.0

ILP # 71327

ILP Map # 93K.071

Project Name Northwood Pulp and Timber Fish Inventory

Project Code 06-BABL-0103-0606-1998

Lake / Stream	S	SITE / METHOD						Waterbody ID	
---------------	---	---------------	--	--	--	--	--	--------------	--

Permit 34770-20 Date: 1998/09/17 To: 1998/09/17 Crew: JM/SW Resample ☐

Site	NID MAP	NID	UTM:Zone/East/North/ Mthd	MTD/NO	Temp	Cond	Turbid	Comment
514	93K.071	50014		EF 1	8.0	80	C	

GEAR SETTINGS

Site	MTD/NO	H/P	Date In	Time In	Date Out	Time Out	Comment
514	EF 1	1	1998/09/17	12:00	1998/09/17	12:05	

NET/TRAP SPECIFICATIONS

ELECTROFISHER SPECIFICATIONS

Site	MTD/NO	H/P	Encl	Sec.	Length	Width	Volts	Hz	Pulse	Make	Model
514	EF 1	1	O	75	100.0	0.7	600	60	5	SR	12 B POW

FISH SUMMARY

Site	MTD/NO	H/P	Species	Stage	Age	Total #	Lgth (Min/Max)	Activity	Comment
514	EF	1 1	NFC			0			

INDIVIDUAL FISH DATA

COMMENTS

Section	Comments
WATERBODY	No fish caught

Site/Reach Card

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

Reach 2.0
Site # 515

ILP # 71325
ILP Map # 93K.071

Project Name Northwood Pulp and Timber Fish Inventory

Project Code 06-BABL-0103-0606-1998

REACH ATTRIBUTES

Sample Type R

Length (km) .41 Elevation (m): upstream 837 downstream 820 UTM (Zone/East/North/ method)
Gradient (%) 4.2 Order 2 Magnitude 2 BGC Zone SBS
Setting Plain/Large Plateau Bars ☒ None ☐ Side ☐ Diagonal ☐ Mid ☐ Span ☐ Braid
Open water A Wetland ☐ Mass Movement Low or no impact to channel; Active Floodplain ☐
Confinement Occasionally Confined Exposed/Eroded Unknown, Not visible Width (m)
Coupling Decoupled Islands None Visible Beaver Dam(s) ☐
Channel Pattern Straight Landuse None/natural LWD jam(s) ☐
Riparian Vegetation Shrubs Valley Flat No valley flat on either bank (C)ontinuous ☐
(D)iscontinuous ☐

SITE

Gazetted Name Local Name Unnamed
Survey Date 1998/09/17 Time 12:45 FIELD UTM(Zone/East/North/Method)
Crew JM/SW Access H MAP UTM (Zone/East/North/Method) GIS
Site Length (m) 320 Method HC Fish Card ☐ Incomplete ☐ NID Map 93K.071 NID # 50015

CHANNEL

	Average	Method(s)
Channel Widths (m) 2.5 4.1 2.1 2.2 2.0 2.4	2.5	T
Wetted Widths (m)	n/a	T
Resid. Pool Depths (m)	n/a	T

No Vis.Ch. ☐ Dewatered ☐
Intermittent ☒ Tributaries ☐
Gradients (%) 3.0 4.0 3.5 AL ,
Bankfull Depth (m) 0.2 0.3 0.2 T

Stage ☒ Low
☐ Med.
☐ High

COVER -		Total	Moderate	LWD	Few	Dist.	Clumped
SWD	LWD	Boulder	Cutbank	Deep Pool	Over Veg	Instream Veg	
Sub-Dominant	Sub-Dominant	None	None	Trace	Dominant	Trace	

Crown Closure
1-20%

Instream Vegetation

☐ None ☒ Moss
☐ Algae ☒ Vasc.

LEFT BANK

Shape Sloping (gradual or shallow sloping)
Riparian Veg. Deciduous
Riparian Stage Pole-sapling stage

Texture ☒ Fines ☐ Gravel ☐ Cobble
☐ Boulder ☐ Rock ☐ Man Made

RIGHT BANK

Shape Sloping (gradual or shallow sloping)
Riparian Veg. Mixed C/D
Riparian Stage Young forest

Texture ☒ Fines ☐ Gravel ☐ Cobble
☐ Boulder ☐ Rock ☐ Man Made

WATER

Temperature Method T4 pH Method P2 EMS #
Conductivity Method S2 Turbidity ☐ Turbid ☐ Medium ☐ Light ☐ Clear Method GE

MORPHOLOGY

BED Dominant Gravels D95(cm) (only 5%larger) 8
MATERIAL Subdominant Cobble D (cm) (moveable) 3
Channel Pattern Irregular, Wandering
Coupling Decoupled
Confinement Unconfined
Islands None
Morphology Code RP
Beaver Dam(s) ☐ O1
Eroding Bank(s) ☐ B2
LWD Jam(s) ☐ D3
Sediment Wedges ☐ S3
Bars ☐ None ☒ Mid
☒ Side ☐ Span
☐ Diag. ☐ Braid

Site/Reach Card

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

Reach 2.0

ILP # 71325

Site # 515

ILP Map # 93K.071

Project Name Northwood Pulp and Timber Fish Inventory

Project Code 06-BABL-0103-0606-1998

FEATURES**HABITAT QUALITY**

FSZs

Side Chan ☐Flood/Beaver ☐Tribes ☐Flood Chan ☐Slough ☐**Name****Comments**

Rearing Habitat

Fair rearing habitat during winter flows

Spawning Habitat

Poor/fair spawning habitat - gravel present but no flows during fall and summer

PHOTO DOCUMENTATION

Film	Compact Disc	Lens / Dir.	Comments
Roll 502 Fr 13 CD 277 Im 27 STD U	dry channel		
Roll 502 Fr 14 CD 277 Im 28 STD D	dry channel		

WILDLIFE**COMMENTS****Form****Section****Comments**

SITE

CHANNEL

Seasonally dry with no pools (ephemeral) - fish accessible during higher flows

Site/Reach Card

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

Reach 4.0
Site # 516

ILP # 71303
ILP Map # 93K.071

Project Name Northwood Pulp and Timber Fish Inventory

Project Code 06-BABL-0103-0606-1998

REACH ATTRIBUTES

Sample Type B

Length (km) 1.32 Elevation (m): upstream 758 downstream 740 UTM (Zone/East/North/ method)
Gradient (%) 1.4 Order 4 Magnitude 45 BGC Zone SBS
Setting Plain/Large Plateau Bars ☒ None ☐ Side ☐ Diagonal ☐ Mid ☐ Span ☐ Braid
Open water A Wetland ☐ Mass Movement Low or no impact to channel; Active Floodplain ☐
Confinement Occasionally Confined Exposed/Eroded Unknown, Not visible Width (m)
Coupling Decoupled Islands None Visible Beaver Dam(s) ☐
Channel Pattern Irregular Meanders Landuse None/natural LWD jam(s) ☐
Riparian Vegetation Shrubs Valley Flat Valley flat on right bank (C)ontinuous ☐ (D)iscontinuous ☒

SITE

Gazetted Name Local Name Big Loon Creek
Survey Date 1998/09/17 Time 14:33 FIELD UTM(Zone/East/North/Method)
Crew JH/JM Access H MAP UTM (Zone/East/North/Method) GIS
Site Length (m) 450 Method GE Fish Card ☒ Incomplete ☐ NID Map 93K.071 NID # 50016

CHANNEL

							Average	Method(s)
Channel Widths (m)	5.4	5.5	5.1	5.6	6.4	6.1	5.7	T
Wetted Widths (m)	3.2	4.7	4.6	4.3	2.4	4.9	4.0	T
Resid. Pool Depths (m)	0.75	0.32	0.40	0.50	0.25	0.40	0.44	T

No Vis.Ch. ☐ Dewatered ☐ Gradients (%) 4.0 5.0 4.5 C,
Intermittent ☐ Tributaries ☐ Bankfull Depth (m) 0.7 0.9 0.8 0.8 T

Stage ☒ Low
☐ Med.
☐ High

COVER -		Total	Moderate	LWD	Few	Dist.	Evenly Distributed
SWD	LWD	Boulder	Cutbank	Deep Pool	Over Veg	Instream Veg	
Sub-Dominant	Trace	None	Sub-Dominant	Sub-Dominant	Sub-Dominant	Dominant	

Crown Closure
1-20%

Instream Vegetation

☐ None ☐ Moss
☒ Algae ☐ Vasc.

LEFT BANK

Shape Undercut
Riparian Veg. Deciduous
Riparian Stage Shrub/herb stage

Texture ☒ Fines ☐ Gravel ☐ Cobble
☐ Boulder ☐ Rock ☐ Man Made

RIGHT BANK

Shape Undercut
Riparian Veg. Deciduous
Riparian Stage Shrub/herb stage

Texture ☒ Fines ☐ Gravel ☐ Cobble
☐ Boulder ☐ Rock ☐ Man Made

WATER

Temperature 11 Method T4 pH 9.3 Method P2 EMS #
Conductivity 30 Method S2 Turbidity ☐ Turbid ☐ Medium ☐ Light ☒ Clear Method GE

MORPHOLOGY

BED Dominant Gravels
MATERIAL Subdominant Cobble

D95(cm) (only 5%larger) 8
D (cm) (moveable) 12

Channel Pattern Regular Meanders
Coupling Decoupled
Confinement Occasionally Confined
Islands None

Morphology Code
RP

Beaver Dam(s) ☐ O1
Eroding Bank(s) ☐ B2
LWD Jam(s) ☐ D3
Sediment Wedges ☐ S3
Bars
☐ None ☐ Mid
☒ Side ☐ Span
☐ Diag. ☐ Braid

Site/Reach Card

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

Reach 4.0

ILP # 71303

Site # 516

ILP Map # 93K.071

Project Name Northwood Pulp and Timber Fish Inventory

Project Code 06-BABL-0103-0606-1998

FEATURES**HABITAT QUALITY**

FSZs

Side Chan ☐Flood/Beaver ☐Tribes ☐Flood Chan ☐Slough ☐**Name****Comments**

Rearing Habitat

Excellent rearing habitat

PHOTO DOCUMENTATION

Film	Compact Disc				Lens / Dir.		Comments
Roll 502	Fr	15	CD 277	Im	29	STD U	
Roll 502	Fr	16	CD 277	Im	30	STD D	
Roll 502	Fr	17	CD 277	Im	31	STD NS	fish

WILDLIFE**COMMENTS**

FDIS Fish Form

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

Reach # 4.0

ILP # 71303

ILP Map # 93K.071

Project Name Northwood Pulp and Timber Fish Inventory

Project Code 06-BABL-0103-0606-1998

Lake / Stream S SITE/METHOD Waterbody ID

Permit 34770-20 Date: 1998/09/17 To: 1998/09/17 Crew: JH/JM Resample ☐

Site	NID MAP	NID	UTM:Zone/East/North/ Mthd	MTD/NO	Temp	Cond	Turbid	Comment
516	93K.071	50016		EF 1	11.0	30	C	

GEAR SETTINGS

Site	MTD/NO	H/P	Date In	Time In	Date Out	Time Out	Comment
516	EF 1	1	1998/09/17	14:40	1998/09/17	15:05	

NET/TRAP SPECIFICATIONS

ELECTROFISHER SPECIFICATIONS

Site	MTD/NO	H/P	Encl	Sec.	Length	Width	Volts	Hz	Pulse	Make	Model
516	EF 1	1	O	300	400.0	5.0	400	60	5	SR	POW-12A

FISH SUMMARY

Site	MTD/NO	H/P	Species	Stage	Age	Total #	Lgth (Min/Max)	Activity	Comment
516	EF	1 1	RB	J		2	70	80	R
516	EF	1 1	RB	F		5	50	60	R

INDIVIDUAL FISH DATA

Site	MTD/NO	H/P	Species	Length	Weight	Sex	Mat	Age		Vch#	Genetic	Photograph	Comment
				(mm)	(g)			Str / Smpl# /	Age		Str/ Smpl#	Roll Fr.	
516	EF	1	1	RB	80		U	U	SC	506	1+		502 17
516	EF	1	1	RB	70		U	U	SC	507	1+		
516	EF	1	1	RB	60		U	U					
516	EF	1	1	RB	60		U	U					
516	EF	1	1	RB	50		U	U					
516	EF	1	1	RB	40		U	U					
516	EF	1	1	RB	40		U	U					

COMMENTS

Site/Reach Card

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

Reach 5.0

ILP # 71303

Site # 517

ILP Map # 93K.071

Project Name Northwood Pulp and Timber Fish Inventory

Project Code 06-BABL-0103-0606-1998

REACH ATTRIBUTES

Sample Type R

Length (km) .45 Elevation (m): upstream 772 downstream 758 UTM (Zone/East/North/ method)

Gradient (%) 3.1 Order 4 Magnitude 34 BGC Zone SBS

Setting Plain/Large Plateau Bars ☒ None ☐ Side ☐ Diagonal ☐ Mid ☐ Span ☐ Braid

Open water A Wetland ☐ Mass Movement Low or no impact to channel; Active Floodplain ☐

Confinement Unconfined Exposed/Eroded Unknown, Not visible Width (m)

Coupling Decoupled Islands NONE Beaver Dam(s) ☐

Channel Pattern Irregular, Wandering Landuse None/natural LWD jam(s) ☐

Riparian Vegetation Shrubs Valley Flat Valley flat on right bank (C)ontinuous ☐ (D)iscontinuous ☒

SITE

Gazetted Name Local Name Big Loon Creek

Survey Date 1998/09/17 Time 15:30 FIELD UTM(Zone/East/North/Method)

Crew JH/JM Access H MAP UTM (Zone/East/North/Method) GIS

Site Length (m) 450 Method GE Fish Card ☒ Incomplete ☐ NID Map 93K.071 NID # 50017

CHANNEL

							Average	Method(s)
Channel Widths (m)	6.1	4.4	5.3	4.1	7.5	5.7	5.5	T
Wetted Widths (m)	4.2	3.2	3.9	3.7	6.2	5.0	4.4	T
Resid. Pool Depths (m)	0.20	0.30	0.40	0.50	0.80	0.50	0.45	T

No Vis.Ch. ☐	Dewatered ☐	Gradients (%)	4.0	4.0	4.0	C ,
Intermittent ☐	Tributaries ☐	Bankfull Depth (m)	0.2	0.4	0.5	T

Stage ☒ Low
☐ Med.
☐ High

COVER -		Total	Moderate	LWD None	Dist.	Not Applicable
SWD	LWD	Boulder	Cutbank	Deep Pool	Over Veg	Instream Veg
Trace	None	None	Sub-Dominant	Sub-Dominant	Dominant	Sub-Dominant

Crown Closure
1-20%

Instream Vegetation

☐ None ☐ Moss
☐ Algae ☒ Vasc.

LEFT BANK

Shape Undercut
Riparian Veg. Deciduous
Riparian Stage Shrub/herb stage

Texture ☒ Fines ☐ Gravel ☐ Cobble
☐ Boulder ☐ Rock ☐ Man Made

RIGHT BANK

Shape Undercut
Riparian Veg. Deciduous
Riparian Stage Shrub/herb stage

Texture ☒ Fines ☐ Gravel ☐ Cobble
☐ Boulder ☐ Rock ☐ Man Made

WATER

Temperature 10 Method T4 pH 8.8 Method P2 EMS #

Conductivity 30 Method S2 Turbidity ☐ Turbid ☐ Medium ☐ Light ☒ Clear Method GE

MORPHOLOGY

BED Dominant Fines D95(cm) (only 5%larger) 3
MATERIAL Subdominant Gravels D (cm) (moveable) 4

Channel Pattern Sinuous

Coupling Decoupled

Confinement Occasionally Confined

Islands None

Morphology Code
RP

Beaver Dam(s) ☐ O1
Eroding Bank(s) ☐ B2 ☒ None ☐ Mid
LWD Jam(s) ☐ D3 ☐ Side ☐ Span
Sediment Wedges ☐ S3 ☐ Diag. ☐ Braid

Site/Reach Card

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

Reach 5.0

ILP # 71303

Site # 517

ILP Map # 93K.071

Project Name Northwood Pulp and Timber Fish Inventory

Project Code 06-BABL-0103-0606-1998

FEATURES**HABITAT QUALITY**

FSZs

Side Chan ☐Flood/Beaver ☐Tribes ☐Flood Chan ☐Slough ☐**Name****Comments**

Rearing Habitat

Good rearing habitat - access potentially difficult through swamp downstream

PHOTO DOCUMENTATION

Film	Compact Disc	Lens / Dir.	Comments
Roll 502 Fr 18 CD 277 Im 32 STD U			
Roll 502 Fr 19 CD 277 Im 33 STD D			
Roll 502 Fr 20 CD Im STD NS			Fish. Photo did not turn out. No CD image.

WILDLIFE**Group****Observations**

MAM

Moose sign

COMMENTS

FDIS Fish Form

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

Reach # 5.0

ILP # 71303

ILP Map # 93K.071

Project Name Northwood Pulp and Timber Fish Inventory

Project Code 06-BABL-0103-0606-1998

Lake / Stream	S	SITE / METHOD						Waterbody ID	
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Permit 34770-20 Date: 1998/09/17 To: 1998/09/17 Crew: JH/JM Resample ☐

Site	NID MAP	NID	UTM:Zone/East/North/ Mthd	MTD/NO	Temp	Cond	Turbid	Comment
517	93K.071	50017		EF 1	10.0	30	C	

GEAR SETTINGS

Site	MTD/NO	H/P	Date In	Time In	Date Out	Time Out	Comment
517	EF 1	1	1998/09/17	15:40	1998/09/17	16:00	

NET/TRAP SPECIFICATIONS

ELECTROFISHER SPECIFICATIONS

Site	MTD/NO	H/P	Encl	Sec.	Length	Width	Volts	Hz	Pulse	Make	Model
517	EF 1	1	O	300	400.0	4.0	400	60	5	SR	POW-12A

FISH SUMMARY

Site	MTD/NO	H/P	Species	Stage	Age	Total #	Lgth (Min/Max)	Activity	Comment
517	EF	1 1	RB	F		1	40 40	R	Others visually observed

INDIVIDUAL FISH DATA

Site	MTD/NO	H/P	Species	Length Weight		Sex	Mat	Age		Vch#	Genetic		Photograph		Comment
				(mm)	(g)			Str / Smpl# /	Age		Str/ Smpl#	Roll	Fr.		
517	EF	1	1	RB	40		U	U				502	20	Others visually observed - same species and size	

COMMENTS

Section	Comments
WATERBODY	Access potentially difficult through swamp downstream

Site/Reach Card

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

Reach 1.0

ILP # 1355

Site # 518

ILP Map # 93K.081

Project Name Northwood Pulp and Timber Fish Inventory

Project Code 06-BABL-0103-0606-1998

REACH ATTRIBUTES						Sample Type
Length (km)	.10	Elevation (m): upstream	732	downstream	711	UTM (Zone/East/North/ method)
Gradient (%)	21.0	Order	1	Magnitude	1	BGC Zone SBS
Setting	Plain/Large Plateau		Bars			☒ None ☐ Side ☐ Diagonal ☐ Mid ☐ Span ☐ Braid
Open water	A	Wetland	☐		Mass Movement	Not Specified
Confinement	Unconfined		Exposed/Eroded		Unknown; Not visible	Active Floodplain ☐
Coupling	Decoupled		Islands		NONE	Beaver Dam(s) ☐
Channel Pattern	Sinuous		Landuse		Not Specified	LWD jam(s) ☐
Riparian Vegetation	Not Specified		Valley Flat		No valley flat on either bank	(C)ontinuous ☐ (D)iscontinuous ☐

REACH ATTRIBUTES						Sample Type
Length (km)		Elevation (m): upstream		downstream		UTM (Zone/East/North/ method)
Gradient (%)	24.0	Order	1	Magnitude		BGC Zone
Setting			Bars			☐ None ☐ Side ☐ Diagonal ☐ Mid ☐ Span ☐ Braid
Open water		Wetland	☐		Mass Movement	Active Floodplain ☐
Confinement	Frequently Confined		Exposed/Eroded			Width (m)
Coupling			Islands			Beaver Dam(s) ☐
Channel Pattern	Straight		Landuse			LWD jam(s) ☐
Riparian Vegetation			Valley Flat			(C)ontinuous ☐ (D)iscontinuous ☐

SITE					
Gazetted Name	Local Name Unnamed				
Survey Date	1998/09/18	Time	10:11	FIELD UTM(Zone/East/North/Method)	
Crew	JH/JM	Access	H	MAP UTM (Zone/East/North/Method)	
Site Length (m)	400	Method	GE	Fish Card ☐ Incomplete ☐	NID Map 93K.081 NID # 50018

CHANNEL							Average	Method(s)
Channel Widths (m)	3.1	3.2	3.5	2.4	2.3	2.0	2.7	T
Wetted Widths (m)							n/a	T
Resid. Pool Depths (m)							n/a	T
No Vis.Ch. ☐	Dewatered ☐	Gradients (%)					5.0	5.0
Intermittent ☒	Tributaries ☐	Bankfull Depth (m)					n/a	C , T

Stage ☒ Low ☐ Med. ☐ High	COVER -	Total	Abundant	LWD	Few	Dist.	Evenly Distributed
	SWD	LWD	Boulder	Cutbank	Deep Pool	Over Veg	Instream Veg
	Trace	Trace	None	Sub-Dominant	None	Dominant	Dominant
Crown Closure 1-20%	LEFT BANK			RIGHT BANK			
	Shape Undercut			Shape Undercut			
	Riparian Veg. Deciduous			Riparian Veg. Deciduous			
	Riparian Stage Pole-sapling stage			Riparian Stage Pole-sapling stage			
Instream Vegetation	Texture ☒ Fines ☐ Gravel ☐ Cobble			Texture ☒ Fines ☐ Gravel ☐ Cobble			
☐ None ☒ Moss ☐ Algae ☒ Vasc.	☐ Boulder ☐ Rock ☐ Man Made			☐ Boulder ☐ Rock ☐ Man Made			

WATER				
Temperature	Method T4	pH	Method P2	EMS #

Site/Reach Card

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

Reach 1.0
Site # 518

ILP # 1355
ILP Map # 93K.081

Project Name Northwood Pulp and Timber Fish Inventory

Project Code 06-BABL-0103-0606-1998

Conductivity Method Turbidity ☐ Turbid ☐ Medium ☐ Light ☐ Clear Method GE

MORPHOLOGY

BED Dominant Fines D95(cm) (only 5%larger) 0.1
MATERIAL Subdominant Not Applicable (same as Dominant) D (cm) (moveable) 0.1

Channel Pattern Irregular Meanders

Coupling Partially Coupled

Confinement Occasionally Confined

Islands None

Morphology Code

Beaver Dam(s) ☐ O1
Eroding Bank(s) ☐ B2
LWD Jam(s) ☐ D3
Sediment Wedges ☐ S3

Bars

☒ None ☐ Mid
☐ Side ☐ Span
☐ Diag. ☐ Braid

FEATURES

HABITAT QUALITY

FSZs Side Chan ☐ Flood/Beaver ☐
Tribes ☐ Flood Chan ☐ Slough ☐

Name	Comments
Rearing Habitat	Poor quality habitat - ephemeral flows
Spawning Habitat	Poor quality habitat - fines for substrate

PHOTO DOCUMENTATION

Film	Compact Disc	Lens / Dir.	Comments
Roll 502 Fr 21 CD 277 Im 34 STD U			
Roll 502 Fr 22 CD 277 Im 35 STD D			

WILDLIFE

Group	Observations
BIR	Grouse

COMMENTS

Site/Reach Card

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

Reach 2.0

ILP # 1356

Site # 519

ILP Map # 93K.081

Project Name Northwood Pulp and Timber Fish Inventory

Project Code 06-BABL-0103-0606-1998

REACH ATTRIBUTES

Sample Type B

Length (km) 1.08 Elevation (m): upstream 790 downstream 732 UTM (Zone/East/North/ method)
 Gradient (%) 5.4 Order 3 Magnitude 5 BGC Zone SBS
 Setting Plain/Large Plateau Bars ☒ None ☐ Side ☐ Diagonal ☐ Mid ☐ Span ☐ Braid
 Open water A Wetland ☐ Mass Movement Not Specified Active Floodplain ☐
 Confinement Frequently Confined Exposed/Eroded Not Specified Width (m)
 Coupling Decoupled Islands Not Specified Beaver Dam(s) ☐
 Channel Pattern Irregular, Wandering Landuse Not Specified LWD jam(s) ☐
 Riparian Vegetation Not Specified Valley Flat Not Specified (C)ontinuous ☐
 (D)iscontinuous ☐

SITE

Gazetted Name Local Name Unnamed
 Survey Date 1998/09/18 Time 10:42 FIELD UTM(Zone/East/North/Method)
 Crew JH/JM Access H MAP UTM (Zone/East/North/Method) GIS
 Site Length (m) 300 Method GE Fish Card ☒ Incomplete ☐ NID Map 93K.081 NID # 50019

CHANNEL

							Average	Method(s)
Channel Widths (m)	1.5	2.4	1.6	2.3	3.1	2.7	2.3	T
Wetted Widths (m)	1.3	0.5	0.4	0.5	0.8	0.5	0.7	T
Resid. Pool Depths (m)	0.10	0.15	0.10	0.15	0.20	0.15	0.14	T

No Vis.Ch. ☐	Dewatered ☐	Gradients (%)	4.0	3.0	3.5	AL ,
Intermittent ☐	Tributaries ☐	Bankfull Depth (m)	0.3	0.3	0.2	T

Stage ☒ Low
☐ Med.
☐ High

COVER -		Total	Abundant	LWD	Few	Dist.	Evenly Distributed
SWD	LWD	Boulder	Cutbank	Deep Pool	Over Veg	Instream Veg	
Dominant	Sub-Dominant	None	Sub-Dominant	None	Dominant	Sub-Dominant	

Crown Closure
 21-40%

Instream Vegetation

☐ None ☐ Moss
☒ Algae ☐ Vasc.

LEFT BANK

Shape Undercut
 Riparian Veg. Deciduous
 Riparian Stage Pole-sapling stage

Texture ☒ Fines ☐ Gravel ☐ Cobble
☐ Boulder ☐ Rock ☐ Man Made

RIGHT BANK

Shape Undercut
 Riparian Veg. Deciduous
 Riparian Stage Pole-sapling stage

Texture ☒ Fines ☐ Gravel ☐ Cobble
☐ Boulder ☐ Rock ☐ Man Made

WATER

Temperature 10 Method T4 pH 7.5 Method P2 EMS #
 Conductivity 30 Method S2 Turbidity ☐ Turbid ☐ Medium ☐ Light ☒ Clear Method GE

MORPHOLOGY

BED Dominant Gravels
 MATERIAL Subdominant Cobble

D95(cm) (only 5%larger) 3
 D (cm) (moveable) 7

Channel Pattern Regular Meanders
 Coupling Partially Coupled
 Confinement Occasionally Confined
 Islands None

Morphology Code
 RP

Beaver Dam(s) ☐ O1
 Eroding Bank(s) ☐ B2
 LWD Jam(s) ☐ D3
 Sediment Wedges ☐ S3
 Bars
☐ None ☐ Mid
☒ Side ☐ Span
☐ Diag. ☐ Braid

Site/Reach Card

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

Reach 2.0

ILP # 1356

Site # 519

ILP Map # 93K.081

Project Name Northwood Pulp and Timber Fish Inventory

Project Code 06-BABL-0103-0606-1998

FEATURES

Type BR Height 2.1 Method GE Length Method

Comments

Photograph Roll 502 Frame 24 UTM (Zone/East/North/ Method)

HABITAT QUALITY

FSZs

Side Chan ☐Flood/Beaver ☐Tribes ☐Flood Chan ☐Slough ☐

Name

Comments

Rearing Habitat

Excellent rearing habitat - RB visually observed

Spawning Habitat

Excellent spawning habitat

PHOTO DOCUMENTATION

Film Compact Disc Lens / Dir. Comments

Roll 502 Fr 23 CD 277 Im 36 STD U

Roll 502 Fr 24 CD 277 Im 37 STD U Bridge

Roll 502 Fr 25 CD 277 Im 38 STD D

Roll 502 Fr 26 CD 277 Im 39 STD NS Fish

WILDLIFE

Group

Observations

BIR

Grouse

COMMENTS

FDIS Fish Form

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

Reach # 2.0

ILP # 1356

ILP Map # 93K.081

Project Name Northwood Pulp and Timber Fish Inventory

Project Code 06-BABL-0103-0606-1998

Lake / Stream		S		SITE / METHOD				Waterbody ID				
Permit	34770-20	Date:	1998/09/18	To:	1998/09/18	Crew:	JH/JM	Resample ☐				
Site	NID MAP	NID	UTM:Zone/East/North/ Mthd		MTD/NO	Temp	Cond	Turbid	Comment			
519	93K.081	50019			EF 1	7.0	30	C				
GEAR SETTINGS												
Site	MTD/NO	H/P	Date In	Time In	Date Out	Time Out	Comment					
519	EF 1	1	1998/09/18	11:10	1998/09/18	11:15						
NET/TRAP SPECIFICATIONS												
ELECTROFISHER SPECIFICATIONS												
Site	MTD/NO	H/P	Encl	Sec.	Length	Width	Volts	Hz	Pulse	Make	Model	
519	EF 1	1	O	50	100.0	1.0	400	60	5	SR	POW-12A	
FISH SUMMARY												
Site	MTD/NO	H/P	Species	Stage	Age	Total #	Lgth (Min/Max)	Activity	Comment			
519	EF	1 1	RB	J		2	100 110	R				
INDIVIDUAL FISH DATA												
Site	MTD/NO	H/P	Species	Length	Weight	Age			Genetic		Photograph	
				(mm)	(g)	Sex	Mat	Str / Smpl# / Age	Vch#	Str/ Smpl#	Roll Fr.	Comment
519	EF	1	1	RB	100		U	U			502 26	
519	EF	1	1	RB	110		U	U				
COMMENTS												

FDIS Fish Form

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

Reach # 1.0

ILP # 1359

ILP Map # 93K.081

Project Name Northwood Pulp and Timber Fish Inventory

Project Code 06-BABL-0103-0606-1998

Lake / Stream S SITE / METHOD Waterbody ID

Permit Date: 1999/07/04 To: 1999/07/04 Crew: JH/CC Resample ☐

Site	NID MAP	NID	UTM:Zone/East/North/ Mthd	MTD/NO	Temp	Cond	Turbid	Comment
719	93K.081	99019		EF 1	7.0	60	C	

GEAR SETTINGS

Site	MTD/NO	H/P	Date In	Time In	Date Out	Time Out	Comment
719	EF 1	1	1999/07/04	09:00	1999/07/04	11:00	

NET/TRAP SPECIFICATIONS

ELECTROFISHER SPECIFICATIONS

Site	MTD/NO	H/P	Encl	Sec.	Length	Width	Volts	Hz	Pulse	Make	Model
719	EF 1	1	O	1123	980.0	3.0	600	70	6	SR	TYPE VII

FISH SUMMARY

Site	MTD/NO	H/P	Species	Stage	Age	Total #	Lgth (Min/Max)	Activity	Comment
719	EF	1 1	RB	A	3+	6	175 250	R	

INDIVIDUAL FISH DATA

Site	MTD/NO	H/P	Species	Length	Weight	Age			Genetic	Photograph	Roll Fr.	Comment	
				(mm)	(g)	Sex	Mat	Str / Smpl# / Age	Vch#	Str/ Smpl#			
719	EF	1	1	RB	195		U	U			103	1	
719	EF	1	1	RB	210		U	U					
719	EF	1	1	RB	180		U	U					
719	EF	1	1	RB	240		U	U					
719	EF	1	1	RB	175		U	U					
719	EF	1	1	RB	250		U	U					

COMMENTS

Site/Reach Card

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

Reach 10.0

ILP # 71522

Site # 520

ILP Map # 93K.071

Project Name Northwood Pulp and Timber Fish Inventory

Project Code 06-BABL-0103-0606-1998

REACH ATTRIBUTES

Sample Type B

Length (km) .58 Elevation (m): upstream 930 downstream 880 UTM (Zone/East/North/ method)
 Gradient (%) 8.6 Order 2 Magnitude 2 BGC Zone SBS
 Setting Not Specified Bars ☒ None ☐ Side ☐ Diagonal ☐ Mid ☐ Span ☐ Braid
 Open water A Wetland ☐ Mass Movement Not Specified Active Floodplain ☐
 Confinement Unconfined Exposed/Eroded Not Specified Width (m)
 Coupling Partially Coupled Islands NONE Beaver Dam(s) ☐
 Channel Pattern Sinuous Landuse Not Specified LWD jam(s) ☐
 Riparian Vegetation Not Specified Valley Flat Not Specified (C)ontinuous ☐
 (D)iscontinuous ☐

SITE

Gazetted Name Local Name Unnamed
 Survey Date 1998/09/18 Time 11:47 FIELD UTM(Zone/East/North/Method)
 Crew JH/JD Access H MAP UTM (Zone/East/North/Method) GIS
 Site Length (m) 200 Method GE Fish Card ☐ Incomplete ☐ NID Map 93K.081 NID # 50020

CHANNEL

							Average	Method(s)
Channel Widths (m)	1.5	0.9	0.8	0.8	0.8	0.7	0.9	T
Wetted Widths (m)	0.4	0.3	0.0	0.0	0.0	0.0	0.1	T
Resid. Pool Depths (m)	0.10	0.10	0.00	0.00	0.00	0.00	0.03	T

No Vis.Ch. ☐	Dewatered ☐	Gradients (%)	45.0	22.0	33.5	C ,
Intermittent ☒	Tributaries ☐	Bankfull Depth (m)	0.1	0.1	0.1	T

Stage ☒ Low
☐ Med.
☐ High

COVER -		Total	Abundant	LWD	Few	Dist.	Evenly Distributed
SWD	LWD	Boulder	Cutbank	Deep Pool	Over Veg	Instream Veg	
Sub-Dominant	Sub-Dominant	None	None	None	Dominant	Dominant	

Crown Closure
 21-40%

Instream Vegetation
☐ None ☒ Moss
☐ Algae ☐ Vasc.

LEFT BANK

Shape Sloping (gradual or shallow sloping)
 Riparian Veg. Deciduous
 Riparian Stage Pole-sapling stage
 Texture ☐ Fines ☐ Gravel ☐ Cobble
☐ Boulder ☒ Rock ☐ Man Made

RIGHT BANK

Shape Sloping (gradual or shallow sloping)
 Riparian Veg. Deciduous
 Riparian Stage Pole-sapling stage
 Texture ☒ Fines ☐ Gravel ☐ Cobble
☐ Boulder ☐ Rock ☐ Man Made

WATER

Temperature Method T4 pH Method P2 EMS #
 Conductivity Method S2 Turbidity ☐ Turbid ☐ Medium ☐ Light ☐ Clear Method GE

MORPHOLOGY

BED Dominant Fines D95(cm) (only 5%larger) 0.1
 MATERIAL Subdominant Not Applicable (same as Dominant) D (cm) (moveable) 0.1
 Channel Pattern Irregular Meanders
 Coupling Partially Coupled
 Confinement Occasionally Confined
 Islands None

Morphology Code
 CP

Beaver Dam(s) ☐ O1
 Eroding Bank(s) ☐ B2
 LWD Jam(s) ☐ D3
 Sediment Wedges ☐ S3
 Bars
☒ None ☐ Mid
☐ Side ☐ Span
☐ Diag. ☐ Braid

Site/Reach Card

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

Reach 10.0

ILP # 71522

Site # 520

ILP Map # 93K.071

Project Name Northwood Pulp and Timber Fish Inventory

Project Code 06-BABL-0103-0606-1998

FEATURES

Type C Height 2.0 Method GE Length Method

Comments Bedrock chute.

Photograph Roll 502 Frame 27 UTM (Zone/East/North/ Method)

Type C Height 2.0 Method GE Length Method

Comments Bedrock chute

Photograph Roll 502 Frame 28 UTM (Zone/East/North/ Method)

HABITAT QUALITY

FSZs

Side Chan ☐Flood/Beaver ☐Tribes ☐Flood Chan ☐Slough ☐**PHOTO DOCUMENTATION**

Film	Compact Disc				Lens / Dir.		Comments
Roll 502	Fr	27	CD 277	Im	40	STD U	Gradient barrier
Roll 502	Fr	28	CD 277	Im	41	STD U	Gradient barrier
Roll 502	Fr	29	CD 277	Im	42	STD U	Channel
Roll 502	Fr	30	CD 277	Im	43	STD D	Channel

WILDLIFE**COMMENTS**

Site/Reach Card

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

Reach 1.0

ILP # 1362

Site # 521

ILP Map # 93K.081

Project Name Northwood Pulp and Timber Fish Inventory

Project Code 06-BABL-0103-0606-1998

FEATURES**HABITAT QUALITY**

FSZs

Side Chan ☐Flood/Beaver ☐Tribes ☐Flood Chan ☐Slough ☐**PHOTO DOCUMENTATION**

Film	Compact Disc	Lens / Dir.	Comments
Roll 502 Fr 31 CD 277 Im 44 STD U			
Roll 502 Fr 32 CD 277 Im 45 STD D			

WILDLIFE**COMMENTS**

Site/Reach Card

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

Reach 3.0

ILP # 1361

Site # 522

ILP Map # 93K.081

Project Name Northwood Pulp and Timber Fish Inventory

Project Code 06-BABL-0103-0606-1998

REACH ATTRIBUTESSample Type **B**

Length (km) .47 Elevation (m): upstream 980 downstream 900 UTM (Zone/East/North/ method)

Gradient (%) 17.0 Order 1 Magnitude 1 BGC Zone SBS

Setting Valley Wall

Bars ☒ None ☐ Side ☐ Diagonal ☐ Mid ☐ Span ☐ BraidOpen water A Wetland ☐

Mass Movement Not Specified

Active Floodplain ☐

Confinement Occasionally Confined

Exposed/Eroded Not Specified

Width (m)

Coupling Not Specified

Islands Not Specified

Beaver Dam(s) ☐

Channel Pattern Sinuous

Landuse None/natural

LWD jam(s) ☐

Riparian Vegetation Mixed C/D

Valley Flat Not Specified

(C)ontinuous ☐
(D)iscontinuous**SITE**

Gazetted Name

Local Name Unnamed

Survey Date 1998/09/18

Time 13:26

FIELD UTM(Zone/East/North/Method)

Crew JH/JM

Access H

MAP UTM (Zone/East/North/Method)

GIS

Site Length (m) 100

Method GE

Fish Card ☐ Incomplete ☐

NID Map 93K.081

NID # 50022

CHANNELNo Visible Channel ☒

Gradient(s) (%)

Vegetation

Veg. Stage

FEATURE**HABITAT QUALITY**

FSZs

Side Chan ☐Flood/Beaver ☐Tribes ☐Flood Chan ☐Slough ☐**PHOTO DOCUMENTATION**

Film	Compact Disc	Lens / Dir.	Comments
Roll 502 Fr 35 CD 277 Im 48 STD U	No visible channel		
Roll 502 Fr 36 CD 277 Im 49 STD D	No visible channel		

COMMENT

Site/Reach Card

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

Reach 14.0

ILP # 71522

Site # 523

ILP Map # 93K.071

Project Name Northwood Pulp and Timber Fish Inventory

Project Code 06-BABL-0103-0606-1998

REACH ATTRIBUTES

Sample Type R

Length (km) .73 Elevation (m): upstream 1162 downstream 1140 UTM (Zone/East/North/ method)
 Gradient (%) 3.0 Order 1 Magnitude 1 BGC Zone SBS
 Setting Plain/Large Plateau Bars ☒ None ☐ Side ☐ Diagonal ☐ Mid ☐ Span ☐ Braid
 Open water A Wetland ☐ Mass Movement Not Specified Active Floodplain ☐
 Confinement Unconfined Exposed/Eroded Unknown, Not visible Width (m)
 Coupling Partially Coupled Islands None Visible Beaver Dam(s) ☐
 Channel Pattern Irregular Meanders Landuse None/natural LWD jam(s) ☐
 Riparian Vegetation Mixed C/D Valley Flat No valley flat on either bank (C)ontinuous ☐
 (D)iscontinuous ☐

SITE

Gazetted Name Local Name Unnamed
 Survey Date 1998/09/18 Time 14:43 FIELD UTM(Zone/East/North/Method)
 Crew JH/JM Access H MAP UTM (Zone/East/North/Method) GIS
 Site Length (m) 100 Method GE Fish Card ☐ Incomplete ☐ NID Map 93K.081 NID # 50023

CHANNEL

							Average	Method(s)
Channel Widths (m)	0.5	0.4	0.3	0.2	0.4	0.4	T	
Wetted Widths (m)	0.3	0.2		0.2	0.3	0.2	T	
Resid. Pool Depths (m)	0.10	0.10			0.15	0.12	T	

No Vis.Ch. ☐	Dewatered ☐	Gradients (%)	5.0	5.0	5.0	C ,
Intermittent ☒	Tributaries ☐	Bankfull Depth (m)	0.1	0.2	0.1	T

Stage ☒ Low

☐ Med.

☐ High

Crown Closure

1-20%

Instream Vegetation

☐ None ☒ Moss

☐ Algae ☐ Vasc.

COVER -

Total	Moderate	LWD	None	Dist.
SWD	LWD	Boulder	Cutbank	Deep Pool
Sub-Dominant	None	None	Sub-Dominant	None
			Over Veg	Instream Veg
			Sub-Dominant	Sub-Dominant

LEFT BANK

Shape Undercut

Riparian Veg. Mixed C/D

Riparian Stage Pole-sapling stage

Texture ☒ Fines ☐ Gravel ☐ Cobble

☐ Boulder ☐ Rock ☐ Man Made

RIGHT BANK

Shape Undercut

Riparian Veg. Mixed C/D

Riparian Stage Pole-sapling stage

Texture ☒ Fines ☐ Gravel ☐ Cobble

☐ Boulder ☐ Rock ☐ Man Made

WATER

Temperature Method T4 pH Method P2 EMS #
 Conductivity Method S2 Turbidity ☐ Turbid ☐ Medium ☐ Light ☐ Clear Method GE

MORPHOLOGY

BED Dominant Fines D95(cm) (only 5%larger) 0.1
 MATERIAL Subdominant Not Applicable (same as Dominant) D (cm) (moveable) 0.1

Channel Pattern Regular Meanders

Coupling Partially Coupled

Confinement Occasionally Confined

Islands None

Morphology Code

RP

Beaver Dam(s) ☐ O1

Eroding Bank(s) ☐ B2

LWD Jam(s) ☐ D3

Sediment Wedges ☐ S3

Bars

☒ None ☐ Mid

☐ Side ☐ Span

☐ Diag. ☐ Braid

Site/Reach Card

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

Reach 14.0

ILP # 71522

Site # 523

ILP Map # 93K.071

Project Name Northwood Pulp and Timber Fish Inventory

Project Code 06-BABL-0103-0606-1998

FEATURES**HABITAT QUALITY**

FSZs

Side Chan ☐Flood/Beaver ☐Tribes ☐Flood Chan ☐Slough ☐**PHOTO DOCUMENTATION**

Film			Compact Disc			Lens / Dir.	Comments
Roll 503	Fr	1	CD 277	Im	50	STD U	
Roll 503	Fr	2	CD 277	Im	51	STD D	

WILDLIFE**COMMENTS**

Form	Section	Comments
SITE	CHANNEL	Seepage area - poorly defined channel

Site/Reach Card

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

Reach 11.0

ILP # 1309

Site # 524

ILP Map # 93L.090

Project Name Northwood Pulp and Timber Fish Inventory

Project Code 06-BABL-0103-0606-1998

REACH ATTRIBUTES

Sample Type B

Length (km) .45 Elevation (m): upstream 1155 downstream 1120 UTM (Zone/East/North/ method)
 Gradient (%) 7.8 Order 3 Magnitude 4 BGC Zone SBS
 Setting Valley Floor Bars ☒ None ☐ Side ☐ Diagonal ☐ Mid ☐ Span ☐ Braid
 Open water A Wetland ☐ Mass Movement Not Specified Active Floodplain ☐
 Confinement Unconfined Exposed/Eroded Not Specified Width (m)
 Coupling Decoupled Islands Not Specified Beaver Dam(s) ☐
 Channel Pattern Sinuous Landuse None/natural LWD jam(s) ☐
 Riparian Vegetation Mixed C/D Valley Flat Not Specified (C)ontinuous ☐
 (D)iscontinuous ☐

SITE

Gazetted Name Local Name Unnamed
 Survey Date 1998/09/18 Time 15:37 FIELD UTM(Zone/East/North/Method)
 Crew JH/JM Access H MAP UTM (Zone/East/North/Method) GIS
 Site Length (m) 200 Method GE Fish Card ☒ Incomplete ☐ NID Map 93K.081 NID # 50024

CHANNEL

							Average	Method(s)
Channel Widths (m)	0.8	0.5	1.0	2.5	1.2	0.9	1.1	T
Wetted Widths (m)	0.5	0.3	0.6	2.4	0.8	0.8	0.9	T
Resid. Pool Depths (m)	0.25	0.10	0.15	0.25	0.15	0.20	0.18	T

No Vis.Ch. ☐ Dewatered ☐
 Intermittent ☐ Tributaries ☐
 Gradients (%) 5.0 5.0 5.0 C,
 Bankfull Depth (m) 0.2 0.1 0.2 0.2 T

Stage ☒ Low
☐ Med.
☐ High

COVER - Total Moderate LWD Few Dist. Evenly Distributed
 SWD LWD Boulder Cutbank Deep Pool Over Veg Instream Veg
 Dominant Dominant None Dominant Dominant Sub-Dominant None

Crown Closure
 1-20%

LEFT BANK
 Shape Undercut
 Riparian Veg. Coniferous
 Riparian Stage Young forest

RIGHT BANK
 Shape Undercut
 Riparian Veg. Coniferous
 Riparian Stage Young forest

Instream Vegetation
☒ None ☐ Moss
☐ Algae ☐ Vasc.

Texture ☒ Fines ☐ Gravel ☐ Cobble
☐ Boulder ☐ Rock ☐ Man Made

Texture ☒ Fines ☐ Gravel ☐ Cobble
☐ Boulder ☐ Rock ☐ Man Made

WATER

Temperature 8 Method T4 pH 7.6 Method P2 EMS #
 Conductivity 40 Method S2 Turbidity ☐ Turbid ☐ Medium ☐ Light ☒ Clear Method GE

MORPHOLOGY

BED Dominant Gravels
 MATERIAL Subdominant Cobble

D95(cm) (only 5%larger) 8
 D (cm) (moveable) 10

Channel Pattern Sinuous
 Coupling Decoupled
 Confinement Unconfined
 Islands None

Morphology Code
 RP

Beaver Dam(s) ☒ O1 Bars
 Eroding Bank(s) ☐ B2 ☒ None ☐ Mid
 LWD Jam(s) ☐ D3 ☐ Side ☐ Span
 Sediment Wedges ☐ S3 ☐ Diag. ☐ Braid

Site/Reach Card

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

Reach 1.0

ILP # 1362

Site # 521

ILP Map # 93K.081

Project Name Northwood Pulp and Timber Fish Inventory

Project Code 06-BABL-0103-0606-1998

REACH ATTRIBUTES

Sample Type B

Length (km) .79 Elevation (m): upstream 980 downstream 880 UTM (Zone/East/North/ method)
 Gradient (%) 12.7 Order 2 Magnitude 2 BGC Zone SBS
 Setting Valley Wall Bars ☒ None ☐ Side ☐ Diagonal ☐ Mid ☐ Span ☐ Braid
 Open water A Wetland ☐ Mass Movement Not Specified Active Floodplain ☐
 Confinement Occasionally Confined Exposed/Eroded Not Specified Width (m)
 Coupling Not Specified Islands Not Specified Beaver Dam(s) ☐
 Channel Pattern Irregular, Wandering Landuse None/natural LWD jam(s) ☐
 Riparian Vegetation Mixed C/D Valley Flat Not Specified (C)ontinuous ☐
 (D)iscontinuous ☐

SITE

Gazetted Name Local Name Unnamed
 Survey Date 1998/09/18 Time 12:15 FIELD UTM(Zone/East/North/Method)
 Crew JH/JM Access H MAP UTM (Zone/East/North/Method) GIS
 Site Length (m) 100 Method GE Fish Card ☐ Incomplete ☐ NID Map 93K.081 NID # 50021

CHANNEL

	Average	Method(s)
Channel Widths (m) 1.2 1.1 0.9 1.0 0.8 0.7	0.9	T
Wetted Widths (m)	n/a	T
Resid. Pool Depths (m)	n/a	T

No Vis.Ch. ☐ Dewatered ☐ Gradients (%) 5.0 4.0 4.5 C ,
 Intermittent ☒ Tributaries ☐ Bankfull Depth (m) n/a

Stage ☒ Low
☐ Med.
☐ High

COVER -		Total	Abundant	LWD	None	Dist.
SWD	LWD	Boulder	Cutbank	Deep Pool	Over Veg	Instream Veg
Sub-Dominant	Sub-Dominant	None	Sub-Dominant	None	Dominant	Sub-Dominant

Crown Closure
 21-40%

Instream Vegetation
☒ None ☐ Moss
☐ Algae ☐ Vasc.

LEFT BANK
 Shape Undercut
 Riparian Veg. Mixed C/D
 Riparian Stage Pole-sapling stage
 Texture ☒ Fines ☐ Gravel ☐ Cobble
☐ Boulder ☐ Rock ☐ Man Made

RIGHT BANK
 Shape Undercut
 Riparian Veg. Mixed C/D
 Riparian Stage Pole-sapling stage
 Texture ☒ Fines ☐ Gravel ☐ Cobble
☐ Boulder ☐ Rock ☐ Man Made

WATER

Temperature Method T4 pH Method P2 EMS #
 Conductivity Method S2 Turbidity ☐ Turbid ☐ Medium ☐ Light ☐ Clear Method GE

MORPHOLOGY

BED Dominant Gravels D95(cm) (only 5% larger) 2
 MATERIAL Subdominant Cobble D (cm) (moveable) 3
 Channel Pattern Regular Meanders
 Coupling Partially Coupled
 Confinement Occasionally Confined
 Islands None
 Morphology Code RP
 Beaver Dam(s) ☐ O1
 Eroding Bank(s) ☐ B2 ☒ None ☐ Mid
 LWD Jam(s) ☐ D3 ☐ Side ☐ Span
 Sediment Wedges ☐ S3 ☐ Diag. ☐ Braid

Site/Reach Card

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

Reach 11.0

ILP # 1309

Site # 524

ILP Map # 93L.090

Project Name Northwood Pulp and Timber Fish Inventory

Project Code 06-BABL-0103-0606-1998

FEATURES

Type BD Height .8 Method T Length Method

Comments

Photograph Roll 503 Frame 5 UTM (Zone/East/North/ Method)

HABITAT QUALITY

FSZs

Side Chan ☐Flood/Beaver ☐Tribes ☐Flood Chan ☐Slough ☐

Name

Comments

Rearing Habitat

Excellent rearing habitat

PHOTO DOCUMENTATION

Film	Compact Disc			Lens / Dir.		Comments
Roll 503	Fr	3	CD	Im	STD NS	Fish. Photo did not turn out. No CD image.
Roll 503	Fr	4	CD 277	Im 52	STD U	
Roll 503	Fr	5	CD 277	Im 53	STD U	Beaver dam
Roll 503	Fr	6	CD 277	Im 54	STD D	

WILDLIFE**COMMENTS**

FDIS Fish Form

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

Reach # 11.0

ILP # 1309

ILP Map # 93L.090

Project Name Northwood Pulp and Timber Fish Inventory

Project Code 06-BABL-0103-0606-1998

Lake / Stream	S	SITE / METHOD						Waterbody ID	
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Permit 34770-20 Date: 1998/09/18 To: 1998/09/18 Crew: JH/JM Resample ☐

Site	NID MAP	NID	UTM:Zone/East/North/ Mthd	MTD/NO	Temp	Cond	Turbid	Comment
524	93K.081	50024		EF 1	8.0	40	C	

GEAR SETTINGS

Site	MTD/NO	H/P	Date In	Time In	Date Out	Time Out	Comment
524	EF 1	1	1998/09/18	15:50	1998/09/18	16:00	

NET/TRAP SPECIFICATIONS

ELECTROFISHER SPECIFICATIONS

Site	MTD/NO	H/P	Encl	Sec.	Length	Width	Volts	Hz	Pulse	Make	Model
524	EF 1	1	O	125	200.0	1.0	500	60	5	SR	POW-12A

FISH SUMMARY

Site	MTD/NO	H/P	Species	Stage	Age	Total #	Lgth (Min/Max)	Activity	Comment
524	EF 1	1	RB	J		2	90 90	R	

INDIVIDUAL FISH DATA

Site	MTD/NO	H/P	Species	Length (mm)	Weight (g)	Sex	Mat	Str / Smpl# / Age	Vch#	Genetic Str/ Smpl#	Photograph Roll Fr.	Comment
524	EF 1	1	RB	90		U	U				503 3	Photo did not turn out. No CD image.
524	EF 1	1	RB	90		U	U					

COMMENTS

Site/Reach Card

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

Reach 10.0

ILP # 81777

Site # 525

ILP Map # 93K.081

Project Name Northwood Pulp and Timber Fish Inventory

Project Code 06-BABL-0103-0606-1998

REACH ATTRIBUTES

Sample Type R

Length (km) 3.00 Elevation (m): upstream 1200 downstream 1190 UTM (Zone/East/North/ method)
 Gradient (%) 0.3 Order 2 Magnitude 2 BGC Zone SBS
 Setting Valley Wall Bars ☒ None ☐ Side ☐ Diagonal ☐ Mid ☐ Span ☐ Braid
 Open water A Wetland ☐ Mass Movement Low or no impact to channel; Active Floodplain ☐
 Confinement Unconfined Exposed/Eroded Not Specified Width (m)
 Coupling Decoupled Islands Not Specified Beaver Dam(s) ☐
 Channel Pattern Regular Meanders Landuse None/natural LWD jam(s) ☐
 Riparian Vegetation Coniferous Valley Flat Not Specified (C)ontinuous ☐
 (D)iscontinuous ☐

SITE

Gazetted Name Local Name Unnamed
 Survey Date 1998/09/19 Time 09:46 FIELD UTM(Zone/East/North/Method)
 Crew JH/JM Access H MAP UTM (Zone/East/North/Method) GIS
 Site Length (m) 200 Method GE Fish Card ☒ Incomplete ☐ NID Map 93K.091 NID # 50025

CHANNEL

							Average	Method(s)
Channel Widths (m)	1.1	0.9	1.5	1.9	2.3	0.8	1.4	T
Wetted Widths (m)	1.0	0.8	0.6	1.3	0.7	0.6	0.8	T
Resid. Pool Depths (m)	0.04	0.05	0.05	0.10	0.15	0.10	0.08	T

No Vis.Ch. ☐	Dewatered ☐	Gradients (%)	4.0	5.0		4.5	C ,
Intermittent ☐	Tributaries ☐	Bankfull Depth (m)	0.1	0.1	0.2	0.1	T

Stage ☐ Low
☒ Med.
☐ High

COVER - Total Moderate LWD Few Dist. Evenly Distributed
 SWD LWD Boulder Cutbank Deep Pool Over Veg Instream Veg
 Trace Sub-Dominant None Dominant Sub-Dominant Dominant Trace

Crown Closure
 1-20%

LEFT BANK

Shape Undercut
 Riparian Veg. Coniferous
 Riparian Stage Pole-sapling stage

Instream Vegetation

☐ None ☒ Moss
☐ Algae ☐ Vasc.

Texture ☒ Fines ☐ Gravel ☐ Cobble
☐ Boulder ☐ Rock ☐ Man Made

RIGHT BANK

Shape Undercut
 Riparian Veg. Coniferous
 Riparian Stage Pole-sapling stage

Texture ☒ Fines ☐ Gravel ☐ Cobble
☐ Boulder ☐ Rock ☐ Man Made

WATER

Temperature 5 Method T4 pH 9.1 Method P2 EMS #
 Conductivity 20 Method S2 Turbidity ☐ Turbid ☐ Medium ☐ Light ☒ Clear Method GE

MORPHOLOGY

BED Dominant Fines D95(cm) (only 5%larger) 0.1
 MATERIAL Subdominant Not Applicable (same as Dominant) D (cm) (moveable) 0.1

Channel Pattern Sinuous
 Coupling Decoupled
 Confinement Unconfined
 Islands None

Morphology Code
 RP

Beaver Dam(s) ☐ O1
 Eroding Bank(s) ☐ B2 ☒ None ☐ Mid
 LWD Jam(s) ☐ D3 ☐ Side ☐ Span
 Sediment Wedges ☐ S3 ☐ Diag. ☐ Braid

Site/Reach Card

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

Reach 10.0

ILP # 81777

Site # 525

ILP Map # 93K.081

Project Name Northwood Pulp and Timber Fish Inventory

Project Code 06-BABL-0103-0606-1998

FEATURES**HABITAT QUALITY**

FSZs

Side Chan ☐Flood/Beaver ☐Tribes ☐Flood Chan ☐Slough ☐

Name	Comments
Rearing Habitat	Moderate rearing habitat
Spawning Habitat	Poor spawning habitat - substrate

PHOTO DOCUMENTATION

Film	Compact Disc	Lens / Dir.	Comments
Roll 503 Fr 7 CD 277 Im 55 STD U			
Roll 503 Fr 8 CD 277 Im 56 STD D			

WILDLIFE**COMMENTS**

Form	Section	Comments
SITE	CHANNEL	Some sections of subsurface flow

FDIS Fish Form

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

Reach # 10.0

ILP # 81777

ILP Map # 93K.081

Project Name Northwood Pulp and Timber Fish Inventory

Project Code 06-BABL-0103-0606-1998

Lake / Stream		S		SITE/METHOD				Waterbody ID	
Permit	34770-20	Date:	1998/09/19	To:	1998/09/19	Crew:	JH/JM	Resample	☐
Site	NID MAP	NID	UTM:Zone/East/North/ Mthd		MTD/NO	Temp	Cond	Turbid	Comment
525	93K.091	50025			EF 1	5.0	20	C	

GEAR SETTINGS							
Site	MTD/NO	H/P	Date In	Time In	Date Out	Time Out	Comment
525	EF 1	1	1998/09/19	09:47	1998/09/19	10:00	

NET/TRAP SPECIFICATIONS							
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ELECTROFISHER SPECIFICATIONS											
Site	MTD/NO	H/P	Encl	Sec.	Length	Width	Volts	Hz	Pulse	Make	Model
525	EF 1	1	O	261	200.0	1.0	600	60	5	SR	POW-12A

FISH SUMMARY									
Site	MTD/NO	H/P	Species	Stage	Age	Total #	Lgth (Min/Max)	Activity	Comment
525	EF	1 1	NFC			0			

INDIVIDUAL FISH DATA									
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COMMENTS									
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Section	Comments
WATERBODY	No fish caught

Site/Reach Card

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

Reach 11.0

ILP # 1329

Site # 526

ILP Map # 93L.090

Project Name Northwood Pulp and Timber Fish Inventory

Project Code 06-BABL-0103-0606-1998

REACH ATTRIBUTES

Sample Type B

Length (km) 1.81 Elevation (m): upstream 1123 downstream 1048 UTM (Zone/East/North/ method)
 Gradient (%) 4.1 Order 2 Magnitude 4 BGC Zone SBS
 Setting Valley Wall Bars ☒ None ☐ Side ☐ Diagonal ☐ Mid ☐ Span ☐ Braid
 Open water A Wetland ☐ Mass Movement Low or no impact to channel; Active Floodplain ☐
 Confinement Occasionally Confined Exposed/Eroded Not Specified Width (m)
 Coupling Decoupled Islands Not Specified Beaver Dam(s) ☐
 Channel Pattern Irregular Meanders Landuse None/natural LWD jam(s) ☐
 Riparian Vegetation Coniferous Valley Flat Not Specified (C)ontinuous ☐
 (D)iscontinuous ☐

SITE

Gazetted Name Local Name Unnamed
 Survey Date 1998/09/19 Time 10:40 FIELD UTM(Zone/East/North/Method)
 Crew JH/JM Access H MAP UTM (Zone/East/North/Method) GIS
 Site Length (m) 200 Method GE Fish Card ☒ Incomplete ☐ NID Map 93K.091 NID # 50026

CHANNEL

							Average	Method(s)
Channel Widths (m)	1.2	2.3	2.1	1.5	1.8	1.9	1.8	T
Wetted Widths (m)	1.2	2.2	1.8	1.5	1.6	1.7	1.7	T
Resid. Pool Depths (m)	0.10	0.15	0.20	0.10	0.40	0.30	0.21	T
No Vis.Ch. ☐							4.5	C
Intermittent ☐							0.4	T
Dewatered ☐								
Tributaries ☐								
Gradients (%)	5.0	4.0					4.5	C
Bankfull Depth (m)	0.3	0.4	0.5					T

Stage ☐ Low
☒ Med.
☐ High

COVER -		Total	Abundant	LWD	None	Dist.	Not Applicable
SWD	LWD	Boulder	Cutbank	Deep Pool	Over Veg	Instream Veg	
Sub-Dominant	None	None	Dominant	Dominant	Dominant	Dominant	

Crown Closure
 21-40%

Instream Vegetation
☐ None ☒ Moss
☐ Algae ☒ Vasc.

LEFT BANK

Shape Undercut
 Riparian Veg. Coniferous
 Riparian Stage Pole-sapling stage

Texture ☒ Fines ☐ Gravel ☐ Cobble
☐ Boulder ☐ Rock ☐ Man Made

RIGHT BANK

Shape Undercut
 Riparian Veg. Coniferous
 Riparian Stage Pole-sapling stage

Texture ☒ Fines ☐ Gravel ☐ Cobble
☐ Boulder ☐ Rock ☐ Man Made

WATER

Temperature 7 Method T4 pH 8.6 Method P2 EMS #
 Conductivity 20 Method S2 Turbidity ☐ Turbid ☐ Medium ☐ Light ☒ Clear Method GE

MORPHOLOGY

BED Dominant Fines
 MATERIAL Subdominant Cobble

D95(cm) (only 5% larger) 7
 D (cm) (moveable) 9

Channel Pattern Sinuous
 Coupling Decoupled
 Confinement Unconfined
 Islands None

Morphology Code
 RP

Beaver Dam(s) ☐ O1
 Eroding Bank(s) ☐ B2 ☒ None ☐ Mid
 LWD Jam(s) ☐ D3 ☐ Side ☐ Span
 Sediment Wedges ☐ S3 ☐ Diag. ☐ Braid

Site/Reach Card

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

Reach 11.0

ILP # 1329

Site # 526

ILP Map # 93L.090

Project Name Northwood Pulp and Timber Fish Inventory

Project Code 06-BABL-0103-0606-1998

FEATURES**HABITAT QUALITY**

FSZs

Side Chan ☐Flood/Beaver ☐Tribes ☐Flood Chan ☐Slough ☐

Name

Comments

Rearing Habitat

Good rearing habitat - abundant cover

PHOTO DOCUMENTATION

Film Compact Disc Lens / Dir. Comments

Roll 503 Fr 10 CD 277 Im 58 STD D

Roll 503 Fr 9 CD 277 Im 57 STD U

WILDLIFE

Group

Observations

BIR

Grouse

COMMENTS

FDIS Fish Form

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

Reach # 11.0

ILP # 1329

ILP Map # 93L.090

Project Name Northwood Pulp and Timber Fish Inventory

Project Code 06-BABL-0103-0606-1998

Lake / Stream	S	SITE/METHOD		Waterbody ID
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Permit 34770-20 Date: 1998/09/19 To: 1998/09/19 Crew: JH/JM Resample ☐

Site	NID MAP	NID	UTM:Zone/East/North/ Mthd	MTD/NO	Temp	Cond	Turbid	Comment
526	93K.091	50026		EF 1	7.0	20	C	

GEAR SETTINGS

Site	MTD/NO	H/P	Date In	Time In	Date Out	Time Out	Comment
526	EF 1	1	1998/09/19	10:40	1998/09/19	10:56	

NET/TRAP SPECIFICATIONS

ELECTROFISHER SPECIFICATIONS

Site	MTD/NO	H/P	Encl	Sec.	Length	Width	Volts	Hz	Pulse	Make	Model
526	EF 1	1	O	240	200.0	2.0	500	60	5	SR	POW-12A

FISH SUMMARY

Site	MTD/NO	H/P	Species	Stage	Age	Total #	Lgth (Min/Max)	Activity	Comment
526	EF	1	1	NFC		0			

INDIVIDUAL FISH DATA

COMMENTS

Section	Comments
WATERBODY	No fish caught

Site/Reach Card

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

Reach 2.0
Site # 530

ILP # 10315
ILP Map # 93L.100

Project Name Northwood Pulp and Timber Fish Inventory

Project Code 06-BABL-0103-0606-1998

REACH ATTRIBUTES						Sample Type	R
Length (km)	1.80	Elevation (m): upstream	920	downstream	740	UTM (Zone/East/North/ method)	
Gradient (%)	10.0	Order	3	Magnitude	6	BGC Zone	SBS
Setting	Valley Wall		Bars		☒ None	☐ Side	☐ Diagonal
					☐ Mid	☐ Span	☐ Braid
Open water	A	Wetland	☐	Mass Movement	Medium impact; some debris		Active Floodplain ☐
Confinement	Confined		Exposed/Eroded		Unknown, Not visible		Width (m)
Coupling	Coupled		Islands		Not Specified		Beaver Dam(s) ☐
Channel Pattern	Irregular, Wandering		Landuse		None/natural		LWD jam(s) ☐
Riparian Vegetation	Coniferous		Valley Flat		Not Specified		(C)ontinuous ☐
							(D)iscontinuous ☐

SITE			
Gazetted Name	Local Name Unnamed		
Survey Date 1998/09/21	Time 10:23	FIELD UTM(Zone/East/North/Method)	
Crew JH/JM	Access V2	MAP UTM (Zone/East/North/Method)	
Site Length (m) 300	Method GE	Fish Card ☒ Incomplete ☐	NID Map 93L.100 NID # 50030

CHANNEL								Average	Method(s)
Channel Widths (m)	2.1	2.3	4.3	4.1	1.7	2.4		2.8	T
Wetted Widths (m)	0.5		0.6					0.5	T
Resid. Pool Depths (m)	0.10		0.10					0.10	T
No Vis.Ch. ☐	Dewatered ☐	Gradients (%)		5.0	3.0			4.0	AL ,
Intermittent ☒	Tributaries ☐	Bankfull Depth (m)		0.3	0.2	0.3		0.3	T

Stage ☒ Low	COVER -		Total	Abundant	LWD	Few	Dist.	Evenly Distributed
☐ Med.	SWD	LWD	Boulder	Cutbank	Deep Pool	Over Veg	Instream Veg	
☐ High	Sub-Dominant	Dominant	None	None	Sub-Dominant	Dominant	None	
Crown Closure	LEFT BANK		RIGHT BANK					
21-40%	Shape Sloping (gradual or shallow sloping)		Shape Sloping (gradual or shallow sloping)					
Instream Vegetation	Riparian Veg. Deciduous		Riparian Veg. Deciduous					
☒ None ☐ Moss	Riparian Stage Pole-sapling stage		Riparian Stage Pole-sapling stage					
☐ Algae ☐ Vasc.	Texture ☐ Fines ☒ Gravel ☐ Cobble		Texture ☐ Fines ☒ Gravel ☐ Cobble					
	☐ Boulder ☐ Rock ☐ Man Made		☐ Boulder ☐ Rock ☐ Man Made					

WATER					
Temperature	8	Method T4	pH	9.0	Method P2
Conductivity	40	Method S2	Turbidity	☐ Turbid ☐ Medium ☐ Light ☒ Clear	Method GE

MORPHOLOGY			
BED	Dominant Gravels	D95(cm) (only 5%larger)	9
MATERIAL	Subdominant Cobble	D (cm) (moveable)	12
Channel Pattern	Sinuuous	Beaver Dam(s) ☐ O1	Bars
Coupling	Partially Coupled	Eroding Bank(s) ☐ B2	☐ None ☐ Mid
Confinement	Occasionally Confined	LWD Jam(s) ☐ D3	☒ Side ☐ Span
Islands	None	Sediment Wedges ☐ S3	☐ Diag. ☐ Braid
Morphology Code		RP	

Site/Reach Card

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

Reach 2.0

ILP # 10315

Site # 530

ILP Map # 93L.100

Project Name Northwood Pulp and Timber Fish Inventory

Project Code 06-BABL-0103-0606-1998

FEATURES

Type CV Height 2.0 Method T Length Method

Comments Perched culvert approx. .6 metres

Photograph Roll 503 Frame 29 UTM (Zone/East/North/ Method)

HABITAT QUALITY

FSZs

Side Chan ☐Flood/Beaver ☐Tribes ☐Flood Chan ☐Slough ☐**Name****Comments**

Rearing Habitat

Good quality habitat - favourable cover

Spawning Habitat

Good quality habitat - favourable substrate

PHOTO DOCUMENTATION

Film	Compact Disc				Lens / Dir.		Comments	
Roll 503	Fr	28	CD	277	Im	61	STD U	Perched culvert
Roll 503	Fr	29	CD	277	Im	62	STD U	Twin culvert
Roll 503	Fr	30	CD	277	Im	63	STD D	dry intermittent channel
Roll 503	Fr	31	CD	277	Im	64	STD U	dry intermittent channel
Roll 503	Fr	32	CD	277	Im	65	STD D	Twin culvert - upstream side

WILDLIFE**COMMENTS**

Form Section

SITE WATER

Comments

Electroshockable water downstream of culvert. Upstream of culvert - dry/intermittent (approx. 50 m. upstream). Downstream of culvert end of stream reach turns dry/intermittent.

FDIS Fish Form

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

Reach # 2.0

ILP # 10315

ILP Map # 93L.100

Project Name Northwood Pulp and Timber Fish Inventory

Project Code 06-BABL-0103-0606-1998

Lake / Stream	S	SITE / METHOD		Waterbody ID
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Permit 34770-20 Date: 1998/09/21 To: 1998/09/21 Crew: JH/JM Resample ☐

Site	NID MAP	NID	UTM:Zone/East/North/ Mthd	MTD/NO	Temp	Cond	Turbid	Comment
530	93L.100	50030		EF 1	8.0	40	C	

GEAR SETTINGS

Site	MTD/NO	H/P	Date In	Time In	Date Out	Time Out	Comment
530	EF 1	1	1998/09/21	10:30	1998/09/21	10:50	

NET/TRAP SPECIFICATIONS

ELECTROFISHER SPECIFICATIONS

Site	MTD/NO	H/P	Encl	Sec.	Length	Width	Volts	Hz	Pulse	Make	Model
530	EF 1	1	O	60	150.0	2.0	400	60	5	SR	TYPE VII

FISH SUMMARY

Site	MTD/NO	H/P	Species	Stage	Age	Total #	Lgth (Min/Max)	Activity	Comment
530	EF	1	1	NFC		0			

INDIVIDUAL FISH DATA

COMMENTS

Section	Comments
WATERBODY	isolated pools shocked

Site/Reach Card

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

Reach 2.0
Site # 531ILP # 1354
ILP Map # 93L.090

Project Name Northwood Pulp and Timber Fish Inventory

Project Code 06-BABL-0103-0606-1998

REACH ATTRIBUTES				Sample Type				
Length (km)	.27	Elevation (m): upstream	730	downstream	715	UTM (Zone/East/North/ method)		
Gradient (%)	5.6	Order	1	Magnitude	1	BGC Zone	SBS	
Setting	Valley Wall		Bars	☒ None	☐ Side	☐ Diagonal	☐ Mid ☐ Span ☐ Braid	
Open water	A	Wetland	☐	Mass Movement	Not Specified		Active Floodplain	☐
Confinement	Occasionally Confined		Exposed/Eroded	Not Specified		Width (m)		
Coupling	Decoupled		Islands	Not Specified		Beaver Dam(s)	☐	
Channel Pattern	Sinuous		Landuse	None/natural		LWD jam(s)	☐	
Riparian Vegetation	Mixed C/D		Valley Flat	Not Specified		(C)ontinuous	☐	
						(D)iscontinuous	☐	

SITE			
Gazetted Name	Local Name Unnamed		
Survey Date	1998/09/21	Time	09:33
Crew	JH/JM	Access	V2
Site Length (m)	200	Method	GE
Fish Card	☐ Incomplete	NID Map	93L.090
		NID #	50031

CHANNEL	
No Visible Channel ☒	
Gradient(s) (%)	
Vegetation	
Veg. Stage	

FEATURE	
HABITAT QUALITY	FSZs ☐ Side Chan ☐ Flood/Beaver ☐
	Tribs. ☐ Flood Chan ☐ Slough ☐

PHOTO DOCUMENTATION			
Film	Compact Disc	Lens / Dir.	Comments
Roll 503	Fr 26 CD 277	Im 59 STD U	No visible channel
Roll 503	Fr 27 CD 277	Im 60 STD D	No visible channel

COMMENT	
Form	Section
SITE	CHANNEL
Comments	
Beach was walked twice - no distinct channel or connection to beach. Road walked - culverts not found. Site measured from known points.	

Site/Reach Card

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

Reach 1.0

ILP # 10318

Site # 532

ILP Map # 93L.100

Project Name Northwood Pulp and Timber Fish Inventory

Project Code 06-BABL-0103-0606-1998

REACH ATTRIBUTES						Sample Type	R
Length (km)	.72	Elevation (m): upstream	1035	downstream	980	UTM (Zone/East/North/ method)	
Gradient (%)	7.6	Order	2	Magnitude	2	BGC Zone	SBS
Setting	Valley Wall		Bars		☒ None	☐ Side	☐ Diagonal
					☐ Mid	☐ Span	☐ Braid
Open water	A	Wetland	☐	Mass Movement	Not Specified		Active Floodplain
Confinement	Occasionally Confined		Exposed/Eroded		Unknown, Not visible		Width (m)
Coupling	Decoupled		Islands		Not Specified		Beaver Dam(s)
Channel Pattern	Irregular, Wandering		Landuse		Logging, with reserves		LWD jam(s)
Riparian Vegetation	Mixed C/D		Valley Flat		No valley flat on either bank		(C)ontinuous
							(D)iscontinuous

SITE			
Gazetted Name	Local Name Unnamed		
Survey Date	1998/09/21	Time	11:51
Crew	JH/JM	Access	V2
Site Length (m)	200	Method	GE
Fish Card	☒ Incomplete	NID Map	93L.100
		NID #	50032

CHANNEL								Average	Method(s)
Channel Widths (m)	1.2	1.5	1.7	2.1	2.0	1.7		1.7	T
Wetted Widths (m)	1.0	1.0	1.2	1.9	1.5	1.4		1.3	T
Resid. Pool Depths (m)	0.20	0.30	0.05	0.10	0.15	0.20		0.17	T
No Vis.Ch.	☐	Dewatered	☐	Gradients (%)				7.0	8.0
Intermittent	☐	Tributaries	☐	Bankfull Depth (m)				0.4	0.3
								0.3	0.3
								7.5	C ,
								0.3	T

COVER -		Total	Abundant	LWD	Few	Dist.	Evenly Distributed	
SWD	LWD	Boulder	Cutbank	Deep Pool	Over Veg	Instream Veg		
Sub-Dominant	Sub-Dominant	Dominant	Dominant	Dominant	Dominant	Trace		
Stage		☐ Low	☒ Med.	☐ High				
Crown Closure		21-40%						
Instream Vegetation		LEFT BANK Shape Undercut Riparian Veg. Mixed C/D Riparian Stage Young forest Texture ☒ Fines ☐ Gravel ☐ Cobble ☐ Boulder ☐ Rock ☐ Man Made RIGHT BANK Shape Undercut Riparian Veg. Mixed C/D Riparian Stage Young forest Texture ☒ Fines ☐ Gravel ☐ Cobble ☐ Boulder ☐ Rock ☐ Man Made						

WATER			
Temperature	6	Method	T4
Conductivity	40	Method	S2
pH	9.0	Method	P2
Turbidity	☐ Turbid	☐ Medium	☐ Light
	☒ Clear	Method	GE

MORPHOLOGY			
BED	Dominant	Gravels	D95(cm) (only 5%larger)
MATERIAL	Subdominant	Cobble	D (cm) (moveable)
Channel Pattern	Regular Meanders		9
Coupling	Partially Coupled		15
Confinement	Occasionally Confined		
Islands	None		
Morphology Code		RP	
Beaver Dam(s)		☐ O1	
Eroding Bank(s)		☐ B2	
LWD Jam(s)		☐ D3	
Sediment Wedges		☐ S3	
Bars		☐ None ☐ Mid ☒ Side ☐ Span ☐ Diag. ☐ Braid	

Site/Reach Card

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

Reach 1.0

ILP # 10318

Site # 532

ILP Map # 93L.100

Project Name Northwood Pulp and Timber Fish Inventory

Project Code 06-BABL-0103-0606-1998

FEATURES**HABITAT QUALITY**

FSZs

Side Chan ☐Flood/Beaver ☐Tribes ☐Flood Chan ☐Slough ☐

Name	Comments
Rearing Habitat	Good rearing habitat
Spawning Habitat	Good spawning habitat

PHOTO DOCUMENTATION

Film	Compact Disc	Lens / Dir.	Comments
Roll 503 Fr 33 CD 277 Im 66 STD D			
Roll 503 Fr 34 CD 277 Im 67 STD U			

WILDLIFE**COMMENTS**

Form	Section	Comments
SITE	CHANNEL	Good habitat - no fish caught

FDIS Fish Form

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

Reach # 1.0

ILP # 10318

ILP Map # 93L.100

Project Name Northwood Pulp and Timber Fish Inventory

Project Code 06-BABL-0103-0606-1998

Lake / Stream	S	SITE/METHOD		Waterbody ID
---------------	---	-------------	--	--------------

Permit 34770-20 Date: 1998/09/21 To: 1998/09/21 Crew: JH/JM Resample ☐

Site	NID MAP	NID	UTM:Zone/East/North/ Mthd	MTD/NO	Temp	Cond	Turbid	Comment
532	93L.100	50032		EF 1	6.0	40	C	

GEAR SETTINGS

Site	MTD/NO	H/P	Date In	Time In	Date Out	Time Out	Comment
532	EF 1	1	1998/09/21	11:45	1998/09/21	12:17	

NET/TRAP SPECIFICATIONS

ELECTROFISHER SPECIFICATIONS

Site	MTD/NO	H/P	Encl	Sec.	Length	Width	Volts	Hz	Pulse	Make	Model
532	EF 1	1	O	258	250.0	2.0	500	60	5	SR	TYPE VII

FISH SUMMARY

Site	MTD/NO	H/P	Species	Stage	Age	Total #	Lgth (Min/Max)	Activity	Comment
532	EF	1	1	NFC		0			

INDIVIDUAL FISH DATA

COMMENTS

Section	Comments
WATERBODY	no fish caught

Site/Reach Card

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

Reach 7.0

ILP # 10315

Site # 533

ILP Map # 93L.100

Project Name Northwood Pulp and Timber Fish Inventory

Project Code 06-BABL-0103-0606-1998

REACH ATTRIBUTES

Sample Type R

Length (km) .21 Elevation (m): upstream 1115 downstream 1110 UTM (Zone/East/North/ method)
 Gradient (%) 2.4 Order 1 Magnitude 1 BGC Zone SBS
 Setting Valley Wall Bars ☒ None ☐ Side ☐ Diagonal ☐ Mid ☐ Span ☐ Braid
 Open water A Wetland ☒ Mass Movement Not Specified Active Floodplain ☐
 Confinement Unconfined Exposed/Eroded Not Specified Width (m)
 Coupling Decoupled Islands Not Specified Beaver Dam(s) ☐
 Channel Pattern Regular Meanders Landuse None/natural LWD Jam(s) ☐
 Riparian Vegetation Shrubs Valley Flat Not Specified (C)ontinuous ☐
 (D)iscontinuous ☐

SITE

Gazetted Name Local Name Unnamed
 Survey Date 1998/09/21 Time 13:12 FIELD UTM(Zone/East/North/Method)
 Crew JH/JM Access V2 MAP UTM (Zone/East/North/Method) GIS
 Site Length (m) 150 Method GE Fish Card ☒ Incomplete ☐ NID Map 93L.100 NID # 50033

CHANNEL

							Average	Method(s)
Channel Widths (m)	1.1	0.9	0.7	1.0	0.9	0.9	0.9	T
Wetted Widths (m)	0.7	0.9	0.6	0.4	0.4	0.7	0.6	T
Resid. Pool Depths (m)	0.10	0.15	0.05	0.10	0.10	0.10	0.10	T

No Vis.Ch. ☐ Dewatered ☐
 Intermittent ☐ Tributaries ☐
 Gradients (%) 7.0 5.0 6.0 C,
 Bankfull Depth (m) 0.1 0.3 0.1 0.2 T

Stage ☐ Low
☒ Med.
☐ High

COVER -		Total	Abundant	LWD	Few	Dist.	Evenly Distributed
SWD	LWD	Boulder	Cutbank	Deep Pool	Over Veg	Instream Veg	
Dominant	Dominant	None	Dominant	Trace	Dominant	Trace	

Crown Closure
 21-40%

Instream Vegetation

☐ None ☒ Moss
☐ Algae ☐ Vasc.

LEFT BANK

Shape Undercut
 Riparian Veg. Coniferous
 Riparian Stage Mature forest

Texture ☒ Fines ☐ Gravel ☐ Cobble
☐ Boulder ☐ Rock ☐ Man Made

RIGHT BANK

Shape Undercut
 Riparian Veg. Coniferous
 Riparian Stage Mature forest

Texture ☒ Fines ☐ Gravel ☐ Cobble
☐ Boulder ☐ Rock ☐ Man Made

WATER

Temperature 7 Method T4 pH 9.0 Method P2 EMS #
 Conductivity 30 Method S2 Turbidity ☐ Turbid ☐ Medium ☐ Light ☒ Clear Method GE

MORPHOLOGY

BED Dominant Fines
 MATERIAL Subdominant Cobble
 Channel Pattern Irregular Meanders
 Coupling Partially Coupled
 Confinement Occasionally Confined
 Islands None

D95(cm) (only 5%larger) 5
 D (cm) (moveable) 10

Morphology Code
 RP

Beaver Dam(s) ☐ O1
 Eroding Bank(s) ☐ B2
 LWD Jam(s) ☐ D3
 Sediment Wedges ☐ S3
 Bars ☒ None ☐ Mid
☐ Side ☐ Span
☐ Diag. ☐ Braid

Site/Reach Card

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

Reach 7.0

ILP # 10315

Site # 533

ILP Map # 93L.100

Project Name Northwood Pulp and Timber Fish Inventory

Project Code 06-BABL-0103-0606-1998

FEATURES**HABITAT QUALITY**

FSZs

Side Chan ☐Flood/Beaver ☐Tribes ☐Flood Chan ☐Slough ☐**Name****Comments**

Rearing Habitat

Moderate rearing habitat

PHOTO DOCUMENTATION**Film****Compact Disc****Lens / Dir.****Comments**

Roll 503 Fr 35 CD 277 Im 68 STD U

Roll 503 Fr 36 CD Im STD D Photo did not turn out. No CD image.

WILDLIFE**COMMENTS****Form****Section****Comments**

SITE

WATER

Pools large enough to cover anode difficult to find.

FDIS Fish Form

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

Reach # 7.0

ILP # 10315

ILP Map # 93L.100

Project Name Northwood Pulp and Timber Fish Inventory

Project Code 06-BABL-0103-0606-1998

Lake / Stream	S	SITE / METHOD				Waterbody ID
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Permit 34770-20 Date: 1998/09/21 To: 1998/09/21 Crew: JH/JM Resample ☐

Site	NID MAP	NID	UTM:Zone/East/North/ Mthd	MTD/NO	Temp	Cond	Turbid	Comment
533	93L.100	50033		EF 1	7.0	30	C	

GEAR SETTINGS

Site	MTD/NO	H/P	Date In	Time In	Date Out	Time Out	Comment
533	EF 1	1	1998/09/21	13:12	1998/09/21	13:26	

NET/TRAP SPECIFICATIONS

ELECTROFISHER SPECIFICATIONS

Site	MTD/NO	H/P	Encl	Sec.	Length	Width	Volts	Hz	Pulse	Make	Model
533	EF 1	1	O	72	150.0	1.0	400	60	5	SR	TYPE VII

FISH SUMMARY

Site	MTD/NO	H/P	Species	Stage	Age	Total #	Lgth (Min/Max)	Activity	Comment
533	EF	1 1	NFC			0			

INDIVIDUAL FISH DATA

COMMENTS

Section	Comments
WATERBODY	No fish caught - electroshockable water difficult to find.

Site/Reach Card

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

Reach 1.0

ILP # 10308

Site # 534

ILP Map # 93L.100

Project Name Northwood Pulp and Timber Fish Inventory

Project Code 06-BABL-0103-0606-1998

REACH ATTRIBUTES

Sample Type R

Length (km) 1.20 Elevation (m): upstream 1120 downstream 980 UTM (Zone/East/North/ method)
 Gradient (%) 11.7 Order 1 Magnitude 1 BGC Zone SBS
 Setting Valley Wall Bars ☒ None ☐ Side ☐ Diagonal ☐ Mid ☐ Span ☐ Braid
 Open water A Wetland ☐ Mass Movement Not Specified Active Floodplain ☐
 Confinement Frequently Confined Exposed/Eroded Unknown, Not visible Width (m)
 Coupling Partially Coupled Islands Not Specified Beaver Dam(s) ☐
 Channel Pattern Straight Landuse None/natural LWD jam(s) ☐
 Riparian Vegetation Coniferous Valley Flat Not Specified (C)ontinuous ☐
 (D)iscontinuous ☐

SITE

Gazetted Name Local Name Unnamed
 Survey Date 1998/09/21 Time 15:13 FIELD UTM(Zone/East/North/Method)
 Crew JH/JM Access V2 MAP UTM (Zone/East/North/Method) GIS
 Site Length (m) 100 Method GE Fish Card ☐ Incomplete ☐ NID Map 93L.100 NID # 50034

CHANNEL

	Average						Method(s)
Channel Widths (m)	0.5	0.6	0.7	0.6	0.6	0.7	0.6 T
Wetted Widths (m)							n/a T
Resid. Pool Depths (m)							n/a T

No Vis.Ch. ☐ Dewatered ☐
 Intermittent ☒ Tributaries ☐
 Gradients (%) 21.0 11.0 16.0 C,
 Bankfull Depth (m) n/a T

Stage ☒ Low
☐ Med.
☐ High

COVER -		Total	Abundant	LWD	Abundant	Dist.	Clumped
SWD	LWD	Boulder	Cutbank	Deep Pool	Over Veg	Instream Veg	
Sub-Dominant	Dominant	None	Dominant	None	Dominant	Sub-Dominant	

Crown Closure
 21-40%

Instream Vegetation

☐ None ☒ Moss
☐ Algae ☐ Vasc.

LEFT BANK

Shape Undercut
 Riparian Veg. Coniferous
 Riparian Stage Pole-sapling stage

Texture ☒ Fines ☐ Gravel ☐ Cobble
☐ Boulder ☐ Rock ☐ Man Made

RIGHT BANK

Shape Undercut
 Riparian Veg. Coniferous
 Riparian Stage Pole-sapling stage

Texture ☒ Fines ☐ Gravel ☐ Cobble
☐ Boulder ☐ Rock ☐ Man Made

WATER

Temperature Method T4 pH Method P2 EMS #
 Conductivity Method Turbidity ☐ Turbid ☐ Medium ☐ Light ☐ Clear Method GE

MORPHOLOGY

BED Dominant Fines D95(cm) (only 5%larger) 4
 MATERIAL Subdominant Cobble D (cm) (moveable) 6
 Channel Pattern Regular Meanders
 Coupling Coupled
 Confinement Frequently Confined
 Islands None
 Morphology Code
 RP
 Beaver Dam(s) ☐ O1
 Eroding Bank(s) ☐ B2 ☒ None ☐ Mid
 LWD Jam(s) ☐ D3 ☐ Side ☐ Span
 Sediment Wedges ☐ S3 ☐ Diag. ☐ Braid

Site/Reach Card

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

Reach 1.0

ILP # 10308

Site # 534

ILP Map # 93L.100

Project Name Northwood Pulp and Timber Fish Inventory

Project Code 06-BABL-0103-0606-1998

FEATURES**HABITAT QUALITY**

FSZs

Side Chan ☐Flood/Beaver ☐Tribes ☐Flood Chan ☐Slough ☐**Name****Comments**

Rearing Habitat

Poor to moderate fish habitat at higher flows - steep gradient may limit fish passage

PHOTO DOCUMENTATION

Film	Compact Disc	Lens / Dir.	Comments
Roll 504 Fr 1 CD 277 Im 69 STD U			
Roll 504 Fr 2 CD 277 Im 70 STD D			

WILDLIFE**COMMENTS**

Site/Reach Card

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

Reach 5.0

ILP # 71522

Site # 535

ILP Map # 93K.071

Project Name Northwood Pulp and Timber Fish Inventory

Project Code 06-BABL-0103-0606-1998

REACH ATTRIBUTES

Sample Type B

Length (km) .49 Elevation (m): upstream 792 downstream 790 UTM (Zone/East/North/ method)
 Gradient (%) 0.4 Order 3 Magnitude 5 BGC Zone SBS
 Setting Plain/Large Plateau Bars ☒ None ☐ Side ☐ Diagonal ☐ Mid ☐ Span ☐ Braid
 Open water A Wetland ☐ Mass Movement Not Specified Active Floodplain ☐
 Confinement Unconfined Exposed/Eroded Not Specified Width (m)
 Coupling Decoupled Islands NONE Beaver Dam(s) ☐
 Channel Pattern Irregular, Wandering Landuse Not Specified LWD jam(s) ☐
 Riparian Vegetation Not Specified Valley Flat No valley flat on either bank (C)ontinuous ☐
 (D)iscontinuous ☐

SITE

Gazetted Name Local Name Unnamed
 Survey Date 1998/09/22 Time 12:12 FIELD UTM(Zone/East/North/Method)
 Crew JH/JM Access V2 MAP UTM (Zone/East/North/Method) GIS
 Site Length (m) 250 Method GE Fish Card ☒ Incomplete ☐ NID Map 93K.081 NID # 50035

CHANNEL

	Average						Method(s)
Channel Widths (m)	1.2	1.7	2.1	2.4	2.5	2.1	2.0 T
Wetted Widths (m)	0.4	0.5	1.6	2.3	0.4	1.6	1.1 T
Resid. Pool Depths (m)	0.30	0.20	0.25	0.70	0.20	0.15	0.30 T
No Vis.Ch. ☐	Gradients (%) 9.0 5.0						7.0 C,
Intermittent ☐	Bankfull Depth (m) 0.1 0.1 0.1						0.1 T

No Vis.Ch. ☐ Dewatered ☐
 Intermittent ☐ Tributaries ☐

Stage ☒ Low
☐ Med.
☐ High

COVER -		Total	Abundant	LWD	Few	Dist.	Clumped
SWD	LWD	Boulder	Cutbank	Deep Pool	Over Veg	Instream Veg	
Dominant	Sub-Dominant	None	Sub-Dominant	Sub-Dominant	Dominant	Sub-Dominant	

Crown Closure
 21-40%

Instream Vegetation

☐ None ☐ Moss
☒ Algae ☐ Vasc.

LEFT BANK

Shape Sloping (gradual or shallow sloping)
 Riparian Veg. Mixed C/D
 Riparian Stage Young forest

Texture ☐ Fines ☒ Gravel ☐ Cobble
☐ Boulder ☐ Rock ☐ Man Made

RIGHT BANK

Shape Undercut
 Riparian Veg. Mixed C/D
 Riparian Stage Young forest

Texture ☐ Fines ☐ Gravel ☒ Cobble
☐ Boulder ☐ Rock ☐ Man Made

WATER

Temperature 8 Method T4 pH 9.6 Method P2 EMS #
 Conductivity 40 Method S2 Turbidity ☐ Turbid ☐ Medium ☐ Light ☒ Clear Method GE

MORPHOLOGY

BED Dominant Gravels
 MATERIAL Subdominant Cobble

D95(cm) (only 5%larger) 4
 D (cm) (moveable) 9

Channel Pattern Sinuous
 Coupling Partially Coupled
 Confinement Frequently Confined
 Islands None

Morphology Code
 RP

Beaver Dam(s) ☐ O1
 Eroding Bank(s) ☐ B2 ☐ None ☐ Mid
 LWD Jam(s) ☐ D3 ☒ Side ☐ Span
 Sediment Wedges ☐ S3 ☐ Diag. ☐ Braid

Site/Reach Card

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

Reach 5.0

ILP # 71522

Site # 535

ILP Map # 93K.071

Project Name Northwood Pulp and Timber Fish Inventory

Project Code 06-BABL-0103-0606-1998

FEATURES

Type CV Height 1.2 Method GE Length Method

Comments

Photograph Roll 504 Frame 6 UTM (Zone/East/North/ Method)

HABITAT QUALITY

FSZs

Side Chan ☐Flood/Beaver ☐Tribes ☐Flood Chan ☐Slough ☐**PHOTO DOCUMENTATION**

Film			Compact Disc			Lens / Dir.	Comments
Roll 504	Fr	3	CD 277	Im	71	STD U	
Roll 504	Fr	4	CD 277	Im	72	STD D	
Roll 504	Fr	5	CD 277	Im	73	STD NS	fish
Roll 504	Fr	6	CD 277	Im	74	STD D	culvert

WILDLIFE**COMMENTS**

FDIS Fish Form

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

Reach # 5.0

ILP # 71522

ILP Map # 93K.071

Project Name Northwood Pulp and Timber Fish Inventory

Project Code 06-BABL-0103-0606-1998

Lake / Stream		S		SITE / METHOD				Waterbody ID							
Permit	34770-20	Date:	1998/09/22	To:	1998/09/22	Crew:	JH/JM	Resample ☐							
Site	NID MAP	NID	UTM:Zone/East/North/ Mthd				MTD/NO	Temp	Cond	Turbid	Comment				
535	93K.081	50035					EF 1	8.0	40	C					
GEAR SETTINGS															
Site	MTD/NO	H/P	Date In	Time In	Date Out	Time Out	Comment								
535	EF 1	1	1998/09/22	12:20	1998/09/22	12:42									
NET/TRAP SPECIFICATIONS															
ELECTROFISHER SPECIFICATIONS															
Site	MTD/NO	H/P	Encl	Sec.	Length	Width	Volts	Hz	Pulse	Make	Model				
535	EF 1	1	O	188	200.0	2.0	600	60	5	SR	TYPE VII				
FISH SUMMARY															
Site	MTD/NO	H/P	Species	Stage	Age	Total #	Lgth (Min/Max)	Activity	Comment						
535	EF	1	1	RB	A	2	110	110	R	Other fish visually observed - same size and spp.					
INDIVIDUAL FISH DATA															
Site	MTD/NO	H/P	Species	Length	Weight	Sex	Mat	Age			Genetic	Photograph		Comment	
				(mm)	(g)			Str / Smpl# /	Age	Vch#		Str/ Smpl#	Roll Fr.		
535	EF	1	1	RB	110		U	U	SC	510	2+			504 5	
535	EF	1	1	RB	110		U	U	SC	511	3+				
COMMENTS															

Site/Reach Card

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

Reach 1.0
Site # 536

ILP # 1382
ILP Map # 93K.081

Project Name Northwood Pulp and Timber Fish Inventory

Project Code 06-BABL-0103-0606-1998

REACH ATTRIBUTES

Sample Type R

Length (km) .40 Elevation (m): upstream 1010 downstream 980 UTM (Zone/East/North/ method)
Gradient (%) 7.5 Order 1 Magnitude 1 BGC Zone SBS
Setting Valley Wall Bars ☒ None ☐ Side ☐ Diagonal ☐ Mid ☐ Span ☐ Braid
Open water A Wetland ☐ Mass Movement Not Specified Active Floodplain ☐
Confinement Occasionally Confined Exposed/Eroded Unknown, Not visible Width (m)
Coupling Decoupled Islands Not Specified Beaver Dam(s) ☐
Channel Pattern Sinuous Landuse None/natural LWD jam(s) ☐
Riparian Vegetation Coniferous Valley Flat Not Specified (C)ontinuous ☐
(D)iscontinuous ☐

SITE

Gazetted Name Local Name Unnamed
Survey Date 1998/09/22 Time 14:42 FIELD UTM(Zone/East/North/Method)
Crew JH/JM Access V2 MAP UTM (Zone/East/North/Method) GIS
Site Length (m) 100 Method GE Fish Card ☐ Incomplete ☐ NID Map 93K.081 NID # 50036

CHANNEL

	Average	Method(s)
Channel Widths (m) 0.5 0.7 0.6 0.2 0.6 0.7	0.6	T
Wetted Widths (m)	n/a	T
Resid. Pool Depths (m)	n/a	T

No Vis.Ch. ☐	Dewatered ☐	Gradients (%) 14.0 2.0	8.0	C ,
Intermittent ☒	Tributaries ☐	Bankfull Depth (m)	n/a	T

Stage ☒ Low
☐ Med.
☐ High

COVER -		Total	Abundant	LWD	None	Dist.
SWD	LWD	Boulder	Cutbank	Deep Pool	Over Veg	Instream Veg
None	None	None	Sub-Dominant	None	Dominant	None

Crown Closure
1-20%

Instream Vegetation

☐ None ☒ Moss
☐ Algae ☐ Vasc.

LEFT BANK

Shape Undercut
Riparian Veg. Shrubs
Riparian Stage Non-vegetated or initial stage f
Texture ☒ Fines ☐ Gravel ☐ Cobble
☐ Boulder ☐ Rock ☐ Man Made

RIGHT BANK

Shape Undercut
Riparian Veg. Shrubs
Riparian Stage Non-vegetated or initial stage f
Texture ☒ Fines ☐ Gravel ☐ Cobble
☐ Boulder ☐ Rock ☐ Man Made

WATER

Temperature Method T4 pH Method P2 EMS #
Conductivity Method Turbidity ☐ Turbid ☐ Medium ☐ Light ☐ Clear Method GE

MORPHOLOGY

BED Dominant Cobble D95(cm) (only 5%larger) 10
MATERIAL Subdominant Not Applicable (same as Dominant) D (cm) (moveable) 16
Channel Pattern Sinuous
Coupling Coupled
Confinement Frequently Confined
Islands None

Morphology Code
RP

Beaver Dam(s) ☐ O1
Eroding Bank(s) ☐ B2 ☒ None ☐ Mid
LWD Jam(s) ☐ D3 ☐ Side ☐ Span
Sediment Wedges ☐ S3 ☐ Diag. ☐ Braid

Site/Reach Card

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

Reach 1.0

ILP # 1382

Site # 536

ILP Map # 93K.081

Project Name Northwood Pulp and Timber Fish Inventory

Project Code 06-BABL-0103-0606-1998

FEATURES

Type CV Height .6 Method GE Length Method

Comments

Photograph Roll 504 Frame 9 UTM (Zone/East/North/ Method)

HABITAT QUALITY

FSZs

Side Chan ☐Flood/Beaver ☐Tribes ☐Flood Chan ☐Slough ☐**Name****Comments**

Rearing Habitat

Poor rearing habitat - stream completely dry - may have ephemeral flows

Spawning Habitat

Poor spawning habitat - no water

PHOTO DOCUMENTATION**Film Compact Disc Lens / Dir. Comments**

Roll 504 Fr 7 CD 277 Im 75 STD U

Roll 504 Fr 8 CD 277 Im 76 STD D

Roll 504 Fr 9 CD 277 Im 77 STD NS Culvert

WILDLIFE**COMMENTS**

Site/Reach Card

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

Reach 2.0
Site # 537

ILP # 81777
ILP Map # 93K.081

Project Name Northwood Pulp and Timber Fish Inventory

Project Code 06-BABL-0103-0606-1998

REACH ATTRIBUTES

Sample Type R

Length (km) 1.40 Elevation (m): upstream 1110 downstream 1042 UTM (Zone/East/North/ method)
Gradient (%) 4.9 Order 2 Magnitude 2 BGC Zone SBS
Setting Valley Wall Bars ☒ None ☐ Side ☐ Diagonal ☐ Mid ☐ Span ☐ Braid
Open water A Wetland ☐ Mass Movement Low or no impact to channel; Active Floodplain ☐
Confinement Occasionally Confined Exposed/Eroded Not Specified Width (m)
Coupling Partially Coupled Islands Not Specified Beaver Dam(s) ☐
Channel Pattern Irregular, Wandering Landuse None/natural LWD jam(s) ☐
Riparian Vegetation Coniferous Valley Flat Not Specified (C)ontinuous ☐
(D)iscontinuous ☐

SITE

Gazetted Name Local Name Unnamed
Survey Date 1998/09/22 Time 15:22 FIELD UTM(Zone/East/North/Method)
Crew JH/JM Access V2 MAP UTM (Zone/East/North/Method) GIS
Site Length (m) 250 Method GE Fish Card ☒ Incomplete ☐ NID Map 93K.081 NID # 50037

CHANNEL

							Average	Method(s)			
Channel Widths (m)	2.4	3.0	1.9	1.4	2.3	1.7	2.1	T			
Wetted Widths (m)	2.2	3.0	1.8	1.4	2.2	0.9	1.9	T			
Resid. Pool Depths (m)	0.10	0.25	0.20	0.20	0.15	0.25	0.19	T			
No Vis.Ch. ☐			Dewatered ☐			Gradients (%)		4.0	5.0	4.5	AL ,
Intermittent ☐			Tributaries ☐			Bankfull Depth (m)		0.3	0.3	0.4	T

Stage ☐ Low
☒ Med.
☐ High

COVER -		Total	Abundant	LWD	Few	Dist.	Evenly Distributed
SWD	LWD	Boulder	Cutbank	Deep Pool	Over Veg	Instream Veg	
None	Trace	None	Dominant	Trace	Dominant	Trace	

Crown Closure
0%

Instream Vegetation

☐ None ☒ Moss
☐ Algae ☐ Vasc.

LEFT BANK

Shape Undercut
Riparian Veg. Deciduous
Riparian Stage Shrub/herb stage

Texture ☒ Fines ☐ Gravel ☐ Cobble
☐ Boulder ☐ Rock ☐ Man Made

RIGHT BANK

Shape Undercut
Riparian Veg. Deciduous
Riparian Stage Shrub/herb stage

Texture ☒ Fines ☐ Gravel ☐ Cobble
☐ Boulder ☐ Rock ☐ Man Made

WATER

Temperature 7 Method T4 pH 9.5 Method P2 EMS #
Conductivity 40 Method S2 Turbidity ☐ Turbid ☐ Medium ☐ Light ☒ Clear Method GE

MORPHOLOGY

BED Dominant Gravels
MATERIAL Subdominant Not Applicable (same as Dominant)
Channel Pattern Sinuous
Coupling Partially Coupled
Confinement Occasionally Confined
Islands None

D95(cm) (only 5%larger) 2
D (cm) (moveable) 3

Morphology Code
RP

Beaver Dam(s) ☐ O1
Eroding Bank(s) ☐ B2
LWD Jam(s) ☐ D3
Sediment Wedges ☐ S3
Bars
☒ None ☐ Mid
☐ Side ☐ Span
☐ Diag. ☐ Braid

Site/Reach Card

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

Reach 2.0

ILP # 81777

Site # 537

ILP Map # 93K.081

Project Name Northwood Pulp and Timber Fish Inventory

Project Code 06-BABL-0103-0606-1998

FEATURES**HABITAT QUALITY**

FSZs

Side Chan ☐Flood/Beaver ☐Tribes ☐Flood Chan ☐Slough ☐**Name** **Comments**

Rearing Habitat Moderate rearing habitat

Spawning Habitat Moderate spawning habitat

PHOTO DOCUMENTATION**Film** **Compact Disc** **Lens / Dir.** **Comments**

Roll 504 Fr 10 CD 277 Im 78 STD U

Roll 504 Fr 11 CD 277 Im 79 STD D

WILDLIFE**COMMENTS****Form** **Section** **Comments**

SITE CHANNEL No fish caught - moderate habitat - should be resampled downstream of reach

FDIS Fish Form

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

Reach # 2.0

ILP # 81777

ILP Map # 93K.081

Project Name Northwood Pulp and Timber Fish Inventory

Project Code 06-BABL-0103-0606-1998

Lake / Stream	S	SITE/METHOD						Waterbody ID	
---------------	---	-------------	--	--	--	--	--	--------------	--

Permit 34770-20 Date: 1998/09/22 To: 1998/09/22 Crew: JH/JM Resample ☒

Site	NID MAP	NID	UTM:Zone/East/North/ Mthd	MTD/NO	Temp	Cond	Turbid	Comment
537	93K.081	50037		EF 1	7.0	40	C	

GEAR SETTINGS

Site	MTD/NO	H/P	Date In	Time In	Date Out	Time Out	Comment
537	EF 1	1	1998/09/22	15:24	1998/09/22	15:45	

NET/TRAP SPECIFICATIONS

ELECTROFISHER SPECIFICATIONS

Site	MTD/NO	H/P	Encl	Sec.	Length	Width	Volts	Hz	Pulse	Make	Model
537	EF 1	1	O	275	200.0	2.0	500	60	5	SR	TYPE VII

FISH SUMMARY

Site	MTD/NO	H/P	Species	Stage	Age	Total #	Lgth (Min/Max)	Activity	Comment
537	EF	1	1	NFC		0			

INDIVIDUAL FISH DATA

COMMENTS

Section	Comments
WATERBODY	No fish caught - should resample downstream

Site/Reach Card

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

Reach 2.0
Site # 538

ILP # 19301
ILP Map # 93M.009

Project Name Northwood Pulp and Timber Fish Inventory

Project Code 06-BABL-0103-0606-1998

REACH ATTRIBUTES

Sample Type R

Length (km) .60 Elevation (m): upstream 900 downstream 800 UTM (Zone/East/North/ method)

Gradient (%) 16.7 Order 1 Magnitude 1 BGC Zone SBS

Setting Not Specified

Bars ☒ None ☐ Side ☐ Diagonal ☐ Mid ☐ Span ☐ Braid

Open water A Wetland ☐

Mass Movement Not Specified

Active Floodplain ☐

Confinement Frequently Confined

Exposed/Eroded Not Specified

Width (m)

Coupling Partially Coupled

Islands NONE

Beaver Dam(s) ☐

Channel Pattern Straight

Landuse None/natural

LWD jam(s) ☐

Riparian Vegetation Not Specified

Valley Flat Not Specified

(C)ontinuous ☐
(D)iscontinuous

SITE

Gazetted Name

Local Name Unnamed

Survey Date 1998/09/23

Time 09:13

FIELD UTM(Zone/East/North/Method)

Crew JH/JM

Access V2

MAP UTM (Zone/East/North/Method)

GIS

Site Length (m) 100

Method HC

Fish Card ☐ Incomplete ☐

NID Map 93M.019

NID # 50038

CHANNEL

No Visible Channel ☒

Gradient(s) (%)

Vegetation

Veg. Stage

FEATURE

HABITAT QUALITY

FSZs

Side Chan ☐

Flood/Beaver ☐

Tribs. ☐

Flood Chan ☐

Slough ☐

PHOTO DOCUMENTATION

Film	Compact Disc	Lens / Dir.	Comments
Roll 504 Fr 12 CD 277 Im 80 STD U			No visible channel
Roll 504 Fr 13 CD 277 Im 81 STD D			No visible channel

COMMENT

Form	Section	Comments
SITE	CHANNEL	Vegetated gully - runs into road and along road into ruts

Site/Reach Card

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

Reach 1.0
Site # 539

ILP # 19306
ILP Map # 93M.019

Project Name Northwood Pulp and Timber Fish Inventory

Project Code 06-BABL-0103-0606-1998

REACH ATTRIBUTES

Sample Type R

Length (km) .34 Elevation (m): upstream 930 downstream 880 UTM (Zone/East/North/ method)
Gradient (%) 14.7 Order 1 Magnitude 1 BGC Zone SBS
Setting Valley Wall Bars ☒ None ☐ Side ☐ Diagonal ☐ Mid ☐ Span ☐ Braid
Open water A Wetland ☐ Mass Movement Not Specified Active Floodplain ☐
Confinement Occasionally Confined Exposed/Eroded Unknown, Not visible Width (m)
Coupling Decoupled Islands NONE Beaver Dam(s) ☐
Channel Pattern Straight Landuse None/natural LWD jam(s) ☐
Riparian Vegetation Shrubs Valley Flat Not Specified (C)ontinuous ☐
(D)iscontinuous ☐

SITE

Gazetted Name Local Name Unnamed
Survey Date 1998/09/23 Time 10:17 FIELD UTM(Zone/East/North/Method)
Crew JH/JM Access V2 MAP UTM (Zone/East/North/Method) GIS
Site Length (m) 100 Method GE Fish Card ☐ Incomplete ☐ NID Map 93M.019 NID # 50039

CHANNEL

	Average	Method(s)
Channel Widths (m) 0.7 0.5 0.5 0.3 0.6 0.5	0.5	T
Wetted Widths (m)	n/a	T
Resid. Pool Depths (m)	n/a	T

No Vis.Ch. ☐ Dewatered ☐	Gradients (%) 18.0 19.0	18.5	C ,
Intermittent ☒ Tributaries ☐	Bankfull Depth (m)	n/a	T

Stage ☒ Low
☐ Med.
☐ High

COVER -		Total	Trace	LWD	None	Dist.	Not Applicable
SWD	LWD	Boulder	Cutbank	Deep Pool	Over Veg	Instream Veg	
Trace	None	None	Sub-Dominant	None	Sub-Dominant	None	

Crown Closure
1-20%

Instream Vegetation

☒ None ☐ Moss
☐ Algae ☐ Vasc.

LEFT BANK

Shape Undercut
Riparian Veg. Coniferous
Riparian Stage Non-vegetated or initial stage f
Texture ☒ Fines ☐ Gravel ☐ Cobble
☐ Boulder ☐ Rock ☐ Man Made

RIGHT BANK

Shape Undercut
Riparian Veg. Coniferous
Riparian Stage Non-vegetated or initial stage f
Texture ☒ Fines ☐ Gravel ☐ Cobble
☐ Boulder ☐ Rock ☐ Man Made

WATER

Temperature Method T4 pH Method P2 EMS #
Conductivity Method S2 Turbidity ☐ Turbid ☐ Medium ☐ Light ☐ Clear Method GE

MORPHOLOGY

BED Dominant Gravels
MATERIAL Subdominant Cobble

D95(cm) (only 5%larger) 4
D (cm) (moveable) 6

Channel Pattern Sinuous
Coupling Coupled
Confinement Frequently Confined
Islands None

Morphology Code
RP

Beaver Dam(s) ☐ O1
Eroding Bank(s) ☐ B2 ☒ None ☐ Mid
LWD Jam(s) ☐ D3 ☐ Side ☐ Span
Sediment Wedges ☐ S3 ☐ Diag. ☐ Braid

Site/Reach Card

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

Reach 1.0

ILP # 19306

Site # 539

ILP Map # 93M.019

Project Name Northwood Pulp and Timber Fish Inventory

Project Code 06-BABL-0103-0606-1998

FEATURES**HABITAT QUALITY**

FSZs

Side Chan ☐Flood/Beaver ☐Tribes ☐Flood Chan ☐Slough ☐**PHOTO DOCUMENTATION**

Film	Compact Disc	Lens / Dir.	Comments
Roll 504	Fr 14 CD 277	Im 82 STD U	
Roll 504	Fr 15 CD 277	Im 83 STD D	

WILDLIFE**COMMENTS**

Site/Reach Card

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

Reach 3.0
Site # 540

ILP # 19319
ILP Map # 93M.019

Project Name Northwood Pulp and Timber Fish Inventory

Project Code 06-BABL-0103-0606-1998

REACH ATTRIBUTES

Sample Type R

Length (km) .21 Elevation (m): upstream 940 downstream 935 UTM (Zone/East/North/ method)
Gradient (%) 2.4 Order 3 Magnitude 6 BGC Zone SBS
Setting Valley Wall Bars ☒ None ☐ Side ☐ Diagonal ☐ Mid ☐ Span ☐ Braid
Open water A Wetland ☒ Mass Movement Low or no impact to channel; Active Floodplain ☐
Confinement Unconfined Exposed/Eroded Unknown, Not visible Width (m)
Coupling Decoupled Islands None Visible Beaver Dam(s) ☐
Channel Pattern Irregular, Wandering Landuse None/natural LWD jam(s) ☐
Riparian Vegetation Grass Valley Flat No valley flat on either bank (C)ontinuous ☐
(D)iscontinuous ☐

SITE

Gazetted Name Local Name Unnamed
Survey Date 1998/09/23 Time 11:10 FIELD UTM(Zone/East/North/Method)
Crew JH/JM Access V2 MAP UTM (Zone/East/North/Method) GIS
Site Length (m) 250 Method GE Fish Card ☒ Incomplete ☐ NID Map 93M.019 NID # 50040

CHANNEL

							Average	Method(s)
Channel Widths (m)	2.0	2.2	2.4	1.9	2.4	1.9	2.1	T
Wetted Widths (m)	2.0	2.2	2.4	1.9	0.7	1.8	1.8	T
Resid. Pool Depths (m)	0.20	0.25	0.30	0.20	0.25	0.30	0.25	T

No Vis.Ch. ☐	Dewatered ☐	Gradients (%)	5.0	5.0	5.0	C ,
Intermittent ☐	Tributaries ☐	Bankfull Depth (m)	0.5	0.5	0.5	T

Stage ☐ Low
☒ Med.
☐ High

COVER -		Total	Moderate	LWD Few	Dist.	Evenly Distributed
SWD	LWD	Boulder	Cutbank	Deep Pool	Over Veg	Instream Veg
Trace	Sub-Dominant	None	Dominant	Dominant	Dominant	None

Crown Closure
1-20%

Instream Vegetation

☒ None ☐ Moss
☐ Algae ☐ Vasc.

LEFT BANK

Shape Undercut
Riparian Veg. Coniferous
Riparian Stage Mature forest

Texture ☒ Fines ☐ Gravel ☐ Cobble
☐ Boulder ☐ Rock ☐ Man Made

RIGHT BANK

Shape Undercut
Riparian Veg. Shrubs
Riparian Stage Non-vegetated or initial stage f

Texture ☒ Fines ☐ Gravel ☐ Cobble
☐ Boulder ☐ Rock ☐ Man Made

WATER

Temperature 7 Method T4 pH 9.0 Method P2 EMS #
Conductivity 40 Method S2 Turbidity ☐ Turbid ☐ Medium ☐ Light ☒ Clear Method GE

MORPHOLOGY

BED Dominant Fines
MATERIAL Subdominant Cobble

D95(cm) (only 5%larger) 9
D (cm) (moveable) 25

Channel Pattern Sinuous
Coupling Partially Coupled
Confinement Occasionally Confined
Islands None

Morphology Code
RP

Beaver Dam(s) ☐ O1
Eroding Bank(s) ☐ B2
LWD Jam(s) ☐ D3
Sediment Wedges ☐ S3
Bars
☒ None ☐ Mid
☐ Side ☐ Span
☐ Diag. ☐ Braid

Site/Reach Card

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

Reach 3.0

ILP # 19319

Site # 540

ILP Map # 93M.019

Project Name Northwood Pulp and Timber Fish Inventory

Project Code 06-BABL-0103-0606-1998

FEATURES**HABITAT QUALITY**

FSZs

Side Chan ☐Flood/Beaver ☐Tribes ☐Flood Chan ☐Slough ☐**Name****Comments**

Spawning Habitat

Poor habitat quality - fines with cobbles - right bank logged to streamside for approx. 10 metres at site

PHOTO DOCUMENTATION

Film	Compact Disc	Lens / Dir.	Comments
Roll 504 Fr 17 CD 277 Im 84 STD U			
Roll 504 Fr 18 CD 277 Im 85 STD D			
Roll 504 Fr 19 CD Im STD NS			Fish. Photo did not turn out. No CD image.

WILDLIFE**COMMENTS****Form****Section****Comments**

SITE

CHANNEL

Recommend resample downstream

FDIS Fish Form

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

Reach # 3.0

ILP # 19319

ILP Map # 93M.019

Project Name Northwood Pulp and Timber Fish Inventory

Project Code 06-BABL-0103-0606-1998

Lake / Stream	S	SITE / METHOD						Waterbody ID	
---------------	---	---------------	--	--	--	--	--	--------------	--

Permit 34770-20 Date: 1998/09/23 To: 1998/09/23 Crew: JH/JM Resample ☒

Site	NID MAP	NID	UTM:Zone/East/North/ Mthd	MTD/NO	Temp	Cond	Turbid	Comment
540	93M.019	50040		EF 1	7.0	40	C	

GEAR SETTINGS

Site	MTD/NO	H/P	Date In	Time In	Date Out	Time Out	Comment
540	EF 1	1	1998/09/23	11:24	1998/09/23	11:30	

NET/TRAP SPECIFICATIONS

ELECTROFISHER SPECIFICATIONS

Site	MTD/NO	H/P	Encl	Sec.	Length	Width	Volts	Hz	Pulse	Make	Model
540	EF 1	1	O	273	200.0	1.0	500	60	5	SR	TYPE VII

FISH SUMMARY

Site	MTD/NO	H/P	Species	Stage	Age	Total #	Lgth (Min/Max)	Activity	Comment
540	EF	1 1	RB	J		1	80 80	R	
540	EF	1 1	RB	F		4	50 50	R	

INDIVIDUAL FISH DATA

Site	MTD/NO	H/P	Species	Length (mm)	Weight (g)	Sex	Mat	Str / Smpl# / Age	Vch#	Genetic Str/ Smpl#	Photograph Roll Fr.	Comment
540	EF	1 1	RB	80		U	U	SC 512 1+			504 19	Photo did not turn out. No CD image.
540	EF	1 1	RB	50		U	U	SC 513 0+				
540	EF	1 1	RB	50		U	U					
540	EF	1 1	RB	50		U	U					

COMMENTS

Site/Reach Card

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

Reach 2.0

ILP # 19320

Site # 541

ILP Map # 93M.019

Project Name Northwood Pulp and Timber Fish Inventory

Project Code 06-BABL-0103-0606-1998

REACH ATTRIBUTES

Sample Type R

Length (km) 1.04 Elevation (m): upstream 1040 downstream 940 UTM (Zone/East/North/ method)
 Gradient (%) 9.6 Order 1 Magnitude 1 BGC Zone SBS
 Setting Valley Wall Bars ☒ None ☐ Side ☐ Diagonal ☐ Mid ☐ Span ☐ Braid
 Open water A Wetland ☐ Mass Movement Not Specified Active Floodplain ☐
 Confinement Occasionally Confined Exposed/Eroded Unknown, Not visible Width (m)
 Coupling Decoupled Islands None Visible Beaver Dam(s) ☐
 Channel Pattern Irregular, Wandering Landuse None/natural LWD jam(s) ☐
 Riparian Vegetation Mixed C/D Valley Flat No valley flat on either bank (C)ontinuous ☐
 (D)iscontinuous ☐

SITE

Gazetted Name Local Name Unnamed
 Survey Date 1998/09/23 Time 13:13 FIELD UTM (Zone/East/North/Method)
 Crew JH/JM Access V2 MAP UTM (Zone/East/North/Method) GIS
 Site Length (m) 100 Method GE Fish Card ☐ Incomplete ☐ NID Map 93M.019 NID # 50041

CHANNEL

	Average	Method(s)
Channel Widths (m) 0.6 0.6 0.4 0.7 0.6 0.6	0.6	T
Wetted Widths (m)	n/a	T
Resid. Pool Depths (m)	n/a	T

No Vis.Ch. ☐ Dewatered ☐
 Intermittent ☒ Tributaries ☐
 Gradients (%) 8.0 9.0 8.5 C,
 Bankfull Depth (m) n/a T

Stage ☒ Low
☐ Med.
☐ High

COVER -		Total	Moderate	LWD	Few	Dist.	Clumped
SWD	LWD	Boulder	Cutbank	Deep Pool	Over Veg	Instream Veg	
Sub-Dominant	Dominant	None	Dominant	None	Dominant	Sub-Dominant	

Crown Closure
 1-20%

Instream Vegetation

☐ None ☒ Moss
☐ Algae ☐ Vasc.

LEFT BANK

Shape Undercut
 Riparian Veg. Deciduous
 Riparian Stage Pole-sapling stage

Texture ☒ Fines ☐ Gravel ☐ Cobble
☐ Boulder ☐ Rock ☐ Man Made

RIGHT BANK

Shape Undercut
 Riparian Veg. Deciduous
 Riparian Stage Pole-sapling stage

Texture ☒ Fines ☐ Gravel ☐ Cobble
☐ Boulder ☐ Rock ☐ Man Made

WATER

Temperature Method T4 pH Method P2 EMS #
 Conductivity Method S2 Turbidity ☐ Turbid ☐ Medium ☐ Light ☐ Clear Method GE

MORPHOLOGY

BED Dominant Gravels
 MATERIAL Subdominant Cobble

D95(cm) (only 5%larger) 5
 D (cm) (moveable) 9

Channel Pattern Regular Meanders
 Coupling Coupled
 Confinement Frequently Confined
 Islands None

Morphology Code
 RP

Beaver Dam(s) ☐ O1
 Eroding Bank(s) ☐ B2
 LWD Jam(s) ☐ D3
 Sediment Wedges ☐ S3
 Bars
☒ None ☐ Mid
☐ Side ☐ Span
☐ Diag. ☐ Braid

Site/Reach Card

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

Reach 2.0

ILP # 19320

Site # 541

ILP Map # 93M.019

Project Name Northwood Pulp and Timber Fish Inventory

Project Code 06-BABL-0103-0606-1998

FEATURES**HABITAT QUALITY**

FSZs

Side Chan ☐Flood/Beaver ☐Tribes ☐Flood Chan ☐Slough ☐**PHOTO DOCUMENTATION**

Film	Compact Disc				Lens / Dir.		Comments
Roll 504	Fr	20	CD 277	Im	86	STD	U
Roll 504	Fr	21	CD 277	Im	87	STD	D

WILDLIFE

Group	Observations
BIR	Grouse

COMMENTS

Form	Section	Comments
SITE	WATER	Ephemeral stream

Site/Reach Card

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

Reach 4.0

ILP # 19309

Site # 542

ILP Map # 93M.019

Project Name Northwood Pulp and Timber Fish Inventory

Project Code 06-BABL-0103-0606-1998

REACH ATTRIBUTES

Sample Type B

Length (km) 1.63 Elevation (m): upstream 1000 downstream 840 UTM (Zone/East/North/ method)
 Gradient (%) 9.8 Order 3 Magnitude 9 BGC Zone SBS
 Setting Valley Wall Bars ☒ None ☐ Side ☐ Diagonal ☐ Mid ☐ Span ☐ Braid
 Open water A Wetland ☐ Mass Movement Not Specified Active Floodplain ☐
 Confinement Frequently Confined Exposed/Eroded Not Specified Width (m)
 Coupling Not Specified Islands Not Specified Beaver Dam(s) ☐
 Channel Pattern Irregular, Wandering Landuse None/natural LWD jam(s) ☐
 Riparian Vegetation Coniferous Valley Flat Not Specified (C)ontinuous ☐
 (D)iscontinuous ☐

SITE

Gazetted Name Local Name Unnamed
 Survey Date 1998/09/23 Time 14:33 FIELD UTM(Zone/East/North/Method)
 Crew JH/JM Access V2 MAP UTM (Zone/East/North/Method) GIS
 Site Length (m) 250 Method GE Fish Card ☒ Incomplete ☐ NID Map 93M.019 NID # 50042

CHANNEL

							Average	Method(s)
Channel Widths (m)	2.4	2.1	2.3	3.8	2.5	1.7	2.5	T
Wetted Widths (m)	0.7	0.4	0.3	0.5	0.4	0.3	0.4	T
Resid. Pool Depths (m)	0.05	0.10	0.05	0.05	0.05	0.05	0.06	T

No Vis.Ch. ☐ Dewatered ☐ Gradients (%) 5.0 5.0 5.0 C,
 Intermittent ☐ Tributaries ☐ Bankfull Depth (m) 0.4 0.3 0.4 0.4 T

Stage ☒ Low
☐ Med.
☐ High

COVER -		Total	Moderate	LWD	Few	Dist.	Clumped
SWD	LWD	Boulder	Cutbank	Deep Pool	Over Veg	Instream Veg	
Sub-Dominant	Dominant	None	Dominant	Sub-Dominant	Sub-Dominant	Sub-Dominant	

Crown Closure
 1-20%

Instream Vegetation

☐ None ☒ Moss
☐ Algae ☐ Vasc.

LEFT BANK

Shape Undercut
 Riparian Veg. Deciduous
 Riparian Stage Pole-sapling stage

Texture ☒ Fines ☐ Gravel ☐ Cobble
☐ Boulder ☐ Rock ☐ Man Made

RIGHT BANK

Shape Undercut
 Riparian Veg. Deciduous
 Riparian Stage Pole-sapling stage

Texture ☒ Fines ☐ Gravel ☐ Cobble
☐ Boulder ☐ Rock ☐ Man Made

WATER

Temperature 8 Method T4 pH 9.0 Method P2 EMS #
 Conductivity 40 Method S2 Turbidity ☐ Turbid ☐ Medium ☐ Light ☒ Clear Method GE

MORPHOLOGY

BED Dominant Gravels
 MATERIAL Subdominant Cobble

D95(cm) (only 5%larger) 5
 D (cm) (moveable) 6

Channel Pattern Straight
 Coupling Coupled
 Confinement Frequently Confined
 Islands Occasional

Morphology Code
 RP

Beaver Dam(s) ☐ O1
 Eroding Bank(s) ☐ B2 ☒ None ☐ Mid
 LWD Jam(s) ☐ D3 ☐ Side ☐ Span
 Sediment Wedges ☐ S3 ☐ Diag. ☐ Braid

Site/Reach Card

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

Reach 4.0

ILP # 19309

Site # 542

ILP Map # 93M.019

Project Name Northwood Pulp and Timber Fish Inventory

Project Code 06-BABL-0103-0606-1998

FEATURES**HABITAT QUALITY**

FSZs

Side Chan ☐Flood/Beaver ☐Tribes ☐Flood Chan ☐Slough ☐**PHOTO DOCUMENTATION**

Film	Compact Disc	Lens / Dir.	Comments
Roll 504 Fr 22 CD 277 Im 88 STD D			
Roll 504 Fr 23 CD 277 Im 89 STD U			

WILDLIFE

Group	Observations
MAM	Bear

COMMENTS

Site/Reach Card

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

Reach 2.0

ILP # 19310

Site # 543

ILP Map # 93M.019

Project Name Northwood Pulp and Timber Fish Inventory

Project Code 06-BABL-0103-0606-1998

REACH ATTRIBUTES

Sample Type R

Length (km) 1.90 Elevation (m): upstream 820 downstream 735 UTM (Zone/East/North/ method)
 Gradient (%) 4.5 Order 2 Magnitude 7 BGC Zone SBS
 Setting Valley Wall Bars ☒ None ☐ Side ☐ Diagonal ☐ Mid ☐ Span ☐ Braid
 Open water A Wetland ☐ Mass Movement Not Specified Active Floodplain ☐
 Confinement Frequently Confined Exposed/Eroded Unknown, Not visible Width (m)
 Coupling Partially Coupled Islands None Visible Beaver Dam(s) ☐
 Channel Pattern Irregular, Wandering Landuse Logging, with reserves LWD jam(s) ☐
 Riparian Vegetation Coniferous Valley Flat No valley flat on either bank (C)ontinuous ☐
 (D)iscontinuous ☐

SITE

Gazetted Name Local Name Unnamed
 Survey Date 1998/09/23 Time 15:19 FIELD UTM(Zone/East/North/Method)
 Crew JH/JM Access V2 MAP UTM (Zone/East/North/Method) GIS
 Site Length (m) 300 Method GE Fish Card ☒ Incomplete ☐ NID Map 93M.019 NID # 50043

CHANNEL

							Average	Method(s)
Channel Widths (m)	2.9	3.2	2.1	3.7	3.6	4.1	3.3	T
Wetted Widths (m)	0.3	1.1	1.7	1.2	0.9	2.2	1.2	T
Resid. Pool Depths (m)	0.15	0.20	0.10	0.15	0.20	0.20	0.17	T

No Vis.Ch. ☐	Dewatered ☐	Gradients (%)	4.0	5.0	4.5	C ,
Intermittent ☐	Tributaries ☐	Bankfull Depth (m)	0.3	0.2	0.3	T

Stage ☐ Low
☒ Med.
☐ High

COVER -		Total	Moderate	LWD None	Dist.	Evenly Distributed
SWD	LWD	Boulder	Cutbank	Deep Pool	Over Veg	Instream Veg
None	None	None	Sub-Dominant	Trace	Sub-Dominant	Trace

Crown Closure
 1-20%

Instream Vegetation

☐ None ☐ Moss
☒ Algae ☐ Vasc.

LEFT BANK

Shape Sloping (gradual or shallow sloping)
 Riparian Veg. Deciduous
 Riparian Stage Pole-sapling stage

Texture ☒ Fines ☐ Gravel ☐ Cobble
☐ Boulder ☐ Rock ☐ Man Made

RIGHT BANK

Shape Sloping (gradual or shallow sloping)
 Riparian Veg. Deciduous
 Riparian Stage Pole-sapling stage

Texture ☒ Fines ☐ Gravel ☐ Cobble
☐ Boulder ☐ Rock ☐ Man Made

WATER

Temperature 9 Method T4 pH 8.0 Method P2 EMS #
 Conductivity 40 Method S2 Turbidity ☐ Turbid ☐ Medium ☐ Light ☒ Clear Method GE

MORPHOLOGY

BED Dominant Gravels
 MATERIAL Subdominant Cobble

D95(cm) (only 5%larger) 7
 D (cm) (moveable) 12

Channel Pattern Sinuous
 Coupling Partially Coupled
 Confinement Occasionally Confined
 Islands None

Morphology Code
 RP

Beaver Dam(s) ☐ O1
 Eroding Bank(s) ☐ B2
 LWD Jam(s) ☐ D3
 Sediment Wedges ☐ S3

Bars
☐ None ☐ Mid
☒ Side ☐ Span
☐ Diag. ☐ Braid

Site/Reach Card

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

Reach 2.0

ILP # 19310

Site # 543

ILP Map # 93M.019

Project Name Northwood Pulp and Timber Fish Inventory

Project Code 06-BABL-0103-0606-1998

FEATURES

Type BR Height 1.9 Method T Length Method

Comments collapsed bridge

Photograph Roll 504 Frame 27 UTM (Zone/East/North/ Method)

Type BR Height 1.9 Method T Length Method

Comments upstream side of bridge

Photograph Roll 504 Frame 28 UTM (Zone/East/North/ Method)

HABITAT QUALITY

FSZs

Tribes. ☐Side Chan ☐Flood/Beaver ☐Flood Chan ☐Slough ☐

Name

Comments

Rearing Habitat

Good rearing habitat

Spawning Habitat

Good spawning habitat

PHOTO DOCUMENTATION

Film	Compact Disc	Lens / Dir.	Comments
Roll 504 Fr 24 CD 277 Im 90 STD D			
Roll 504 Fr 25 CD 277 Im 91 STD NS			Fish
Roll 504 Fr 26 CD 277 Im 92 STD U			
Roll 504 Fr 27 CD 277 Im 93 STD U			downstream side of bridge
Roll 504 Fr 28 CD 277 Im 94 STD D			upstream side of bridge

WILDLIFE**COMMENTS**

FDIS Fish Form

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

Reach # 2.0

ILP # 19310

ILP Map # 93M.019

Project Name Northwood Pulp and Timber Fish Inventory

Project Code 06-BABL-0103-0606-1998

Lake / Stream	S	SITE/METHOD						Waterbody ID	
---------------	---	-------------	--	--	--	--	--	--------------	--

Permit 34770-20 Date: 1998/09/23 To: 1998/09/23 Crew: JH/JM Resample ☐

Site	NID MAP	NID	UTM:Zone/East/North/ Mthd	MTD/NO	Temp	Cond	Turbid	Comment
543	93M.019	50043		EF 1	9.0	40	C	

GEAR SETTINGS

Site	MTD/NO	H/P	Date In	Time In	Date Out	Time Out	Comment
543	EF 1	1	1998/09/23	15:20	1998/09/23	15:34	

NET/TRAP SPECIFICATIONS

ELECTROFISHER SPECIFICATIONS

Site	MTD/NO	H/P	Encl	Sec.	Length	Width	Volts	Hz	Pulse	Make	Model
543	EF 1	1	O	46	100.0	2.0	500	60	5	SR	TYPE VII

FISH SUMMARY

Site	MTD/NO	H/P	Species	Stage	Age	Total #	Lgth (Min/Max)	Activity	Comment	
543	EF 1	1	RB	J		2	80	80	R	20 more fish of same size and spp. visually obs'd

INDIVIDUAL FISH DATA

Site	MTD/NO	H/P	Species	Length (mm)	Weight (g)	Sex	Mat	Str / Smpl# / Age	Vch#	Genetic Str/ Smpl#	Photograph Roll Fr.	Comment
543	EF 1	1	RB	80		U	U	SC 514 1+			504 25	
543	EF 1	1	RB	80		U	U	SC 515 1+				

COMMENTS

Site/Reach Card

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

Reach 3.0

ILP # 19310

Site # 544

ILP Map # 93M.019

Project Name Northwood Pulp and Timber Fish Inventory

Project Code 06-BABL-0103-0606-1998

REACH ATTRIBUTES

Sample Type R

Length (km) 1.12 Elevation (m): upstream 945 downstream 820 UTM (Zone/East/North/ method)
 Gradient (%) 11.2 Order 2 Magnitude 6 BGC Zone SBS
 Setting Valley Wall Bars ☒ None ☐ Side ☐ Diagonal ☐ Mid ☐ Span ☐ Braid
 Open water A Wetland ☐ Mass Movement Medium impact; some debris Active Floodplain ☐
 Confinement Frequently Confined Exposed/Eroded Unknown, Not visible Width (m)
 Coupling Coupled Islands None Visible Beaver Dam(s) ☐
 Channel Pattern Irregular, Wandering Landuse Logging LWD jam(s) ☐
 Riparian Vegetation NONE Valley Flat No valley flat on either bank (C)ontinuous ☐
 (D)iscontinuous ☐

SITE

Gazetted Name Local Name Unnamed
 Survey Date 1998/09/23 Time 15:42 FIELD UTM(Zone/East/North/Method)
 Crew JH/JM Access V2 MAP UTM (Zone/East/North/Method) GIS
 Site Length (m) 200 Method GE Fish Card ☒ Incomplete ☐ NID Map 93M.019 NID # 50044

CHANNEL

							Average	Method(s)
Channel Widths (m)	1.7	1.8	1.5	2.1	2.0	1.8	1.8	T
Wetted Widths (m)	1.6	1.7	1.5	0.7	0.6	1.0	1.2	T
Resid. Pool Depths (m)	0.10	0.15	0.10	0.20	0.15	0.20	0.15	T

No Vis.Ch. ☐ Dewatered ☐ Gradients (%) 5.0 5.0 5.0 C,
 Intermittent ☐ Tributaries ☐ Bankfull Depth (m) 0.2 0.3 0.2 0.2 T

Stage ☐ Low
☒ Med.
☐ High

COVER -		Total	Moderate	LWD Few	Dist.	Clumped
SWD	LWD	Boulder	Cutbank	Deep Pool	Over Veg	Instream Veg
Sub-Dominant	Dominant	None	Dominant	Sub-Dominant	Sub-Dominant	None

Crown Closure 1-20%

LEFT BANK

Shape Undercut
 Riparian Veg. Shrubs
 Riparian Stage Non-vegetated or initial stage f

Instream Vegetation

☒ None ☐ Moss
☐ Algae ☐ Vasc.

Texture ☒ Fines ☐ Gravel ☐ Cobble
☐ Boulder ☐ Rock ☐ Man Made

RIGHT BANK

Shape Undercut
 Riparian Veg. Deciduous
 Riparian Stage Young forest

Texture ☒ Fines ☐ Gravel ☐ Cobble
☐ Boulder ☐ Rock ☐ Man Made

WATER

Temperature 8 Method T4 pH 9.0 Method P2 EMS #
 Conductivity 40 Method S2 Turbidity ☐ Turbid ☐ Medium ☐ Light ☒ Clear Method GE

MORPHOLOGY

BED Dominant Gravels
 MATERIAL Subdominant Cobble

D95(cm) (only 5%larger) 5
 D (cm) (moveable) 17

Channel Pattern Straight
 Coupling Partially Coupled
 Confinement Occasionally Confined
 Islands None

Morphology Code
 RP

Beaver Dam(s) ☐ O1
 Eroding Bank(s) ☐ B2 ☒ None ☐ Mid
 LWD Jam(s) ☐ D3 ☐ Side ☐ Span
 Sediment Wedges ☐ S3 ☐ Diag. ☐ Braid

Site/Reach Card

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

Reach 3.0

ILP # 19310

Site # 544

ILP Map # 93M.019

Project Name Northwood Pulp and Timber Fish Inventory

Project Code 06-BABL-0103-0606-1998

FEATURES**HABITAT QUALITY**

FSZs

Side Chan ☐Flood/Beaver ☐Tribes ☐Flood Chan ☐Slough ☐**Name****Comments**

Rearing Habitat

Moderate rearing habitat - left bank logged to stream - some subsurface flows: pools become isolated - heavily overgrown stream.

PHOTO DOCUMENTATION**Film****Compact Disc****Lens / Dir.****Comments**

Roll 504 Fr 29 CD 277 Im 95 STD U

Roll 504 Fr 30 CD 277 Im 96 STD D

Roll 504 Fr 31 CD Im STD NS Fish. Photo did not turn out. No CD image.

WILDLIFE**COMMENTS****Form****Section****Comments**

SITE CHANNEL

Based on stream characteristics (gradient), fish access may be possible during high flows

FDIS Fish Form

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

Reach # 3.0

ILP # 19310

ILP Map # 93M.019

Project Name Northwood Pulp and Timber Fish Inventory

Project Code 06-BABL-0103-0606-1998

Lake / Stream	S	SITE / METHOD						Waterbody ID	
---------------	---	---------------	--	--	--	--	--	--------------	--

Permit 34770-20 Date: 1998/09/23 To: 1998/09/23 Crew: JH/JM Resample ☐

Site	NID MAP	NID	UTM:Zone/East/North/ Mthd	MTD/NO	Temp	Cond	Turbid	Comment
544	93M.019	50044		EF 1	8.0	40	C	

GEAR SETTINGS

Site	MTD/NO	H/P	Date In	Time In	Date Out	Time Out	Comment
544	EF 1	1	1998/09/23	15:45	1998/09/23	15:54	

NET/TRAP SPECIFICATIONS

ELECTROFISHER SPECIFICATIONS

Site	MTD/NO	H/P	Encl	Sec.	Length	Width	Volts	Hz	Pulse	Make	Model
544	EF 1	1	O	94	200.0	2.0	500	60	5	SR	TYPE VII

FISH SUMMARY

Site	MTD/NO	H/P	Species	Stage	Age	Total #	Lgth (Min/Max)	Activity	Comment
544	EF 1	1	RB	J		8	70 80	R	

INDIVIDUAL FISH DATA

Site	MTD/NO	H/P	Species	Length (mm)	Weight (g)	Sex	Mat	Str / Smpl# / Age	Vch#	Genetic Str/ Smpl#	Photograph Roll Fr.	Comment
544	EF 1	1	RB	70		U	U					
544	EF 1	1	RB	70		U	U					
544	EF 1	1	RB	70		U	U					
544	EF 1	1	RB	70		U	U					
544	EF 1	1	RB	80		U	U				504 31	Photo did not turn out. No CD image.
544	EF 1	1	RB	80		U	U					
544	EF 1	1	RB	80		U	U					
544	EF 1	1	RB	80		U	U					

COMMENTS

Site/Reach Card

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

Reach 3.0

ILP # 20603

Site # 546

ILP Map # 93M.020

Project Name Northwood Pulp and Timber Fish Inventory

Project Code 06-BABL-0103-0606-1998

REACH ATTRIBUTES

Sample Type R

Length (km) .62 Elevation (m): upstream 1100 downstream 1020 UTM (Zone/East/North/ method)
 Gradient (%) 12.9 Order 1 Magnitude 1 BGC Zone SBS
 Setting Valley Wall Bars ☒ None ☐ Side ☐ Diagonal ☐ Mid ☐ Span ☐ Braid
 Open water A Wetland ☐ Mass Movement Not Specified Active Floodplain ☐
 Confinement Frequently Confined Exposed/Eroded Unknown, Not visible Width (m) ☐
 Coupling Not Specified Islands None Visible Beaver Dam(s) ☐
 Channel Pattern Irregular, Wandering Landuse None/natural LWD jam(s) ☐
 Riparian Vegetation Coniferous Valley Flat Not Specified (C)ontinuous ☐
 (D)iscontinuous ☐

SITE

Gazetted Name Local Name Unnamed
 Survey Date 1998/09/24 Time 13:17 FIELD UTM (Zone/East/North/Method)
 Crew JH/JM Access V4 MAP UTM (Zone/East/North/Method) GIS
 Site Length (m) 100 Method GE Fish Card ☐ Incomplete ☐ NID Map 93M.020 NID # 50046

CHANNEL

							Average	Method(s)
Channel Widths (m)	0.7	0.8	0.7	0.6	0.9	1.2	0.8	T
Wetted Widths (m)		0.4	0.2	0.3	0.3		0.3	T
Resid. Pool Depths (m)		0.02	0.05	0.05	0.05		0.04	T

No Vis.Ch. ☐	Dewatered ☐	Gradients (%)	23.0	18.0	20.5	C,
Intermittent ☒	Tributaries ☐	Bankfull Depth (m)	0.2	0.3	0.3	T

Stage ☒ Low
☐ Med.
☐ High

COVER -		Total	Moderate	LWD	Few	Dist.	Evenly Distributed
SWD	LWD	Boulder	Cutbank	Deep Pool	Over Veg	Instream Veg	
Trace	Trace	None	Dominant	None	Sub-Dominant	Sub-Dominant	

Crown Closure
 1-20%

LEFT BANK

Shape Undercut
 Riparian Veg. Coniferous
 Riparian Stage Pole-sapling stage

Instream Vegetation

☐ None ☒ Moss
☐ Algae ☐ Vasc.

Texture ☒ Fines ☐ Gravel ☐ Cobble
☐ Boulder ☐ Rock ☐ Man Made

RIGHT BANK

Shape Undercut
 Riparian Veg. Coniferous
 Riparian Stage Young forest

Texture ☒ Fines ☐ Gravel ☐ Cobble
☐ Boulder ☐ Rock ☐ Man Made

WATER

Temperature Method T4 pH Method P2 EMS #
 Conductivity Method S2 Turbidity ☐ Turbid ☐ Medium ☐ Light ☐ Clear Method GE

MORPHOLOGY

BED Dominant Gravels
 MATERIAL Subdominant Cobble

D95(cm) (only 5% larger) 10
 D (cm) (moveable) 17

Channel Pattern Irregular Meanders
 Coupling Coupled
 Confinement Confined
 Islands None

Morphology Code
 RP

Beaver Dam(s) ☐ O1
 Eroding Bank(s) ☐ B2 ☒ None ☐ Mid
 LWD Jam(s) ☐ D3 ☐ Side ☐ Span
 Sediment Wedges ☐ S3 ☐ Diag. ☐ Braid

Site/Reach Card

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

Reach 3.0

ILP # 20603

Site # 546

ILP Map # 93M.020

Project Name Northwood Pulp and Timber Fish Inventory

Project Code 06-BABL-0103-0606-1998

FEATURES**HABITAT QUALITY**

FSZs

Side Chan ☐Flood/Beaver ☐Tribes ☐Flood Chan ☐Slough ☐**PHOTO DOCUMENTATION**

Film	Compact Disc	Lens / Dir.	Comments
Roll 504 Fr 35 CD 277 Im 99 STD U			
Roll 504 Fr 36 CD 277 Im 100 STD D			

WILDLIFE**COMMENTS**

Site/Reach Card

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

Reach 1.0
Site # 549

ILP # 9308
ILP Map # 93M.009

Project Name Northwood Pulp and Timber Fish Inventory

Project Code 06-BABL-0103-0606-1998

REACH ATTRIBUTES						Sample Type
Length (km)	.40	Elevation (m): upstream	740	downstream	710	UTM (Zone/East/North/ method)
Gradient (%)	7.5	Order	1	Magnitude	1	BGC Zone SBS
Setting	Valley Wall		Bars			☒ None ☐ Side ☐ Diagonal ☐ Mid ☐ Span ☐ Braid
Open water	A	Wetland	☐	Mass Movement	Not Specified	Active Floodplain ☐
Confinement	Occasionally Confined		Exposed/Eroded			Unknown, Not visible
Coupling	Not Specified		Islands			Not Specified
Channel Pattern	Regular Meanders		Landuse			None/natural
Riparian Vegetation	Coniferous		Valley Flat			Not Specified
						Width (m)
						Beaver Dam(s) ☐
						LWD jam(s) ☐
						(C)ontinuous ☐
						(D)iscontinuous ☐

SITE			
Gazetted Name	Local Name Unnamed		
Survey Date	1998/09/25	Time	09:27
Crew	JH/JM	Access	H
FIELD UTM(Zone/East/North/Method)			
MAP UTM (Zone/East/North/Method)			
GIS			
Site Length (m)	100	Method	GE
Fish Card	☐	Incomplete	☐
NID Map	93M.009	NID #	50049

CHANNEL	
No Visible Channel	☒
Gradient(s) (%)	
Vegetation	
Veg. Stage	

FEATURE			
HABITAT QUALITY		FSZs	Side Chan ☐
		Tribs. ☐	Flood Chan ☐
		Flood/Beaver	☐
		Slough	☐

PHOTO DOCUMENTATION							
Film	Compact Disc		Lens / Dir.		Comments		
Roll 505	Fr 11	CD 277	Im 111	STD U	No visible channel		
Roll 505	Fr 12	CD 277	Im 112	STD D	No visible channel		

COMMENT	

Site/Reach Card

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

Reach 1.0

ILP # 9310

Site # 550

ILP Map # 93M.009

Project Name Northwood Pulp and Timber Fish Inventory

Project Code 06-BABL-0103-0606-1998

REACH ATTRIBUTES

Sample Type R

Length (km) .43 Elevation (m): upstream 750 downstream 710 UTM (Zone/East/North/ method)
 Gradient (%) 9.3 Order 1 Magnitude 1 BGC Zone SBS
 Setting Valley Wall Bars ☒ None ☐ Side ☐ Diagonal ☐ Mid ☐ Span ☐ Braid
 Open water A Wetland ☐ Mass Movement Low or no impact to channel; Active Floodplain ☐
 Confinement Occasionally Confined Exposed/Eroded Unknown, Not visible Width (m)
 Coupling Decoupled Islands NONE Beaver Dam(s) ☐
 Channel Pattern Regular Meanders Landuse None/natural LWD jam(s) ☐
 Riparian Vegetation Shrubs Valley Flat Not Specified (C)ontinuous ☐
 (D)iscontinuous ☐

SITE

Gazetted Name Local Name Unnamed
 Survey Date 1998/09/25 Time 09:50 FIELD UTM(Zone/East/North/Method)
 Crew JH/JM Access H MAP UTM (Zone/East/North/Method) GIS
 Site Length (m) 100 Method GE Fish Card ☐ Incomplete ☐ NID Map 93M.009 NID # 50050

CHANNEL

	Average	Method(s)
Channel Widths (m) 0.9 0.5 0.9 1.1 1.0 0.9	0.9	T
Wetted Widths (m)	n/a	T
Resid. Pool Depths (m)	n/a	T

No Vis.Ch. ☐	Dewatered ☐	Gradients (%) 12.0 8.0	10.0	C ,
Intermittent ☒	Tributaries ☐	Bankfull Depth (m)	n/a	T

Stage ☒ Low
☐ Med.
☐ High

COVER -		Total	Abundant	LWD	Few	Dist.	Evenly Distributed
SWD	LWD	Boulder	Cutbank	Deep Pool	Over Veg	Instream Veg	
Sub-Dominant	Sub-Dominant	None	Dominant	None	Dominant	None	

Crown Closure
 21-40%

Instream Vegetation

☒ None ☐ Moss
☐ Algae ☐ Vasc.

LEFT BANK

Shape Undercut
 Riparian Veg. Coniferous
 Riparian Stage Mature forest

Texture ☒ Fines ☐ Gravel ☐ Cobble
☐ Boulder ☐ Rock ☐ Man Made

RIGHT BANK

Shape Undercut
 Riparian Veg. Coniferous
 Riparian Stage Mature forest

Texture ☒ Fines ☐ Gravel ☐ Cobble
☐ Boulder ☐ Rock ☐ Man Made

WATER

Temperature Method T4 pH Method P2 EMS #
 Conductivity Method Turbidity ☐ Turbid ☐ Medium ☐ Light ☐ Clear Method GE

MORPHOLOGY

BED Dominant Gravels D95(cm) (only 5%larger) 6
 MATERIAL Subdominant Not Applicable (same as Dominant) D (cm) (moveable) 12
 Channel Pattern Sinuous
 Coupling Coupled
 Confinement Frequently Confined
 Islands None
 Morphology Code
 RP
 Beaver Dam(s) ☐ O1
 Eroding Bank(s) ☐ B2 ☒ None ☐ Mid
 LWD Jam(s) ☐ D3 ☐ Side ☐ Span
 Sediment Wedges ☐ S3 ☐ Diag. ☐ Braid

Site/Reach Card

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

Reach 1.0

ILP # 9310

Site # 550

ILP Map # 93M.009

Project Name Northwood Pulp and Timber Fish Inventory

Project Code 06-BABL-0103-0606-1998

FEATURES**HABITAT QUALITY**

FSZs

Side Chan ☐Flood/Beaver ☐Tribes. ☐Flood Chan ☐Slough ☐**PHOTO DOCUMENTATION**

Film	Compact Disc	Lens / Dir.	Comments
Roll 505 Fr 15 CD 277 Im 115 STD U			
Roll 505 Fr 16 CD 277 Im 116 STD D			

WILDLIFE**COMMENTS**

Site/Reach Card

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

Reach 1.0
Site # 551

ILP # 9309
ILP Map # 93M.009

Project Name Northwood Pulp and Timber Fish Inventory

Project Code 06-BABL-0103-0606-1998

REACH ATTRIBUTES

Sample Type R

Length (km) .40 Elevation (m): upstream 740 downstream 710 UTM (Zone/East/North/ method)
Gradient (%) 7.5 Order 2 Magnitude 2 BGC Zone SBS
Setting Valley Wall Bars ☒ None ☐ Side ☐ Diagonal ☐ Mid ☐ Span ☐ Braid
Open water A Wetland ☐ Mass Movement Low or no impact to channel; Active Floodplain ☐
Confinement Occasionally Confined Exposed/Eroded Unknown, Not visible Width (m)
Coupling Decoupled Islands NONE Beaver Dam(s) ☐
Channel Pattern Regular Meanders Landuse None/natural LWD jam(s) ☐
Riparian Vegetation Shrubs Valley Flat Not Specified (C)ontinuous ☐
(D)iscontinuous ☐

SITE

Gazetted Name Local Name Unnamed
Survey Date 1998/09/25 Time 10:00 FIELD UTM(Zone/East/North/Method)
Crew JH/JM Access H MAP UTM (Zone/East/North/Method) GIS
Site Length (m) 100 Method GE Fish Card ☐ Incomplete ☐ NID Map 93M.009 NID # 50051

CHANNEL

	Average	Method(s)
Channel Widths (m) 2.1 1.0 1.2 1.0 0.9 0.9	1.2	T
Wetted Widths (m)	n/a	T
Resid. Pool Depths (m)	n/a	T

No Vis.Ch. ☐ Dewatered ☐ Gradients (%) 5.0 4.0 4.5 C ,
Intermittent ☒ Tributaries ☐ Bankfull Depth (m) n/a T

Stage ☒ Low
☐ Med.
☐ High

COVER -		Total	Abundant	LWD	Few	Dist.	Clumped
SWD	LWD	Boulder	Cutbank	Deep Pool	Over Veg	Instream Veg	
Trace	Dominant	None	Dominant	None	Sub-Dominant	None	

Crown Closure
1-20%

Instream Vegetation

☒ None ☐ Moss
☐ Algae ☐ Vasc.

LEFT BANK

Shape Undercut
Riparian Veg. Coniferous
Riparian Stage Young forest

Texture ☒ Fines ☐ Gravel ☐ Cobble
☐ Boulder ☐ Rock ☐ Man Made

RIGHT BANK

Shape Undercut
Riparian Veg. Coniferous
Riparian Stage Young forest

Texture ☒ Fines ☐ Gravel ☐ Cobble
☐ Boulder ☐ Rock ☐ Man Made

WATER

Temperature Method T4 pH Method P2 EMS #
Conductivity Method Turbidity ☐ Turbid ☐ Medium ☐ Light ☐ Clear Method GE

MORPHOLOGY

BED Dominant Gravels D95(cm) (only 5%larger) 2
MATERIAL Subdominant Not Applicable (same as Dominant) D (cm) (moveable) 4

Channel Pattern Straight
Coupling Partially Coupled
Confinement Occasionally Confined
Islands None

Morphology Code
RP

Beaver Dam(s) ☐ O1
Eroding Bank(s) ☐ B2 ☒ None ☐ Mid
LWD Jam(s) ☐ D3 ☐ Side ☐ Span
Sediment Wedges ☐ S3 ☐ Diag. ☐ Braid

Site/Reach Card

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

Reach 1.0

ILP # 9309

Site # 551

ILP Map # 93M.009

Project Name Northwood Pulp and Timber Fish Inventory

Project Code 06-BABL-0103-0606-1998

FEATURES**HABITAT QUALITY**

FSZs

Side Chan ☐Flood/Beaver ☐Tribes ☐Flood Chan ☐Slough ☐**PHOTO DOCUMENTATION**

Film	Compact Disc	Lens / Dir.	Comments
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Roll 505	Fr 13 CD 277	Im 113 STD U	
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Roll 505	Fr 14 CD 277	Im 114 STD D	
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WILDLIFE**COMMENTS**

Form	Section	Comments
------	---------	----------

SITE	CHANNEL	Possible fish access to lower reaches during extremely high flows
------	---------	---

Site/Reach Card

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

Reach 2.0
Site # 552

ILP # 10346
ILP Map # 93L.100

Project Name Northwood Pulp and Timber Fish Inventory

Project Code 06-BABL-0103-0606-1998

REACH ATTRIBUTES

Sample Type R

Length (km) .92 Elevation (m): upstream 1080 downstream 960 UTM (Zone/East/North/ method)
Gradient (%) 13.0 Order 2 Magnitude 4 BGC Zone SBS
Setting Valley Wall Bars ☒ None ☐ Side ☐ Diagonal ☐ Mid ☐ Span ☐ Braid
Open water A Wetland ☐ Mass Movement Not Specified Active Floodplain ☐
Confinement Frequently Confined Exposed/Eroded Not Specified Width (m) 0
Coupling Decoupled Islands Not Specified Beaver Dam(s) ☐
Channel Pattern Irregular, Wandering Landuse None/natural LWD jam(s) ☐
Riparian Vegetation Coniferous Valley Flat Not Specified (C)ontinuous ☐
(D)iscontinuous ☐

SITE

Gazetted Name Local Name Unnamed
Survey Date 1998/09/25 Time 12:12 FIELD UTM(Zone/East/North/Method)
Crew JH/JM Access H MAP UTM (Zone/East/North/Method) GIS
Site Length (m) 200 Method GE Fish Card ☐ Incomplete ☐ NID Map 93M.010 NID # 50052

CHANNEL

							Average	Method(s)
Channel Widths (m)	1.2	1.0	0.9	2.1	0.8	0.9	1.1	T
Wetted Widths (m)	1.2	0.7	0.4	0.8	0.6	0.6	0.7	T
Resid. Pool Depths (m)	0.15	0.20	0.15	0.05	0.23	0.25	0.17	T

No Vis.Ch. ☐	Dewatered ☐	Gradients (%)	17.0	10.0	13.5	C ,
Intermittent ☐	Tributaries ☐	Bankfull Depth (m)	0.3	0.2	0.4	T

Stage ☐ Low
☒ Med.
☐ High

COVER -		Total	Abundant	LWD	Few	Dist.	Clumped
SWD	LWD	Boulder	Cutbank	Deep Pool	Over Veg	Instream Veg	
Trace	Dominant	Trace	Dominant	Trace	Dominant	Trace	

Crown Closure
21-40%

Instream Vegetation

☐ None ☐ Moss
☒ Algae ☐ Vasc.

LEFT BANK

Shape Undercut
Riparian Veg. Mixed C/D
Riparian Stage Young forest

Texture ☒ Fines ☐ Gravel ☐ Cobble
☐ Boulder ☐ Rock ☐ Man Made

RIGHT BANK

Shape Undercut
Riparian Veg. Deciduous
Riparian Stage Young forest

Texture ☒ Fines ☐ Gravel ☐ Cobble
☐ Boulder ☐ Rock ☐ Man Made

WATER

Temperature 7 Method T4 pH 7.5 Method P2 EMS #
Conductivity 60 Method S2 Turbidity ☐ Turbid ☐ Medium ☐ Light ☒ Clear Method GE

MORPHOLOGY

BED Dominant Gravels D95(cm) (only 5%larger) 15
MATERIAL Subdominant Cobble D (cm) (moveable) 17

Channel Pattern Irregular Meanders
Coupling Coupled
Confinement Frequently Confined
Islands None

Morphology Code
RP

Beaver Dam(s) ☐ O1
Eroding Bank(s) ☐ B2 ☒ None ☐ Mid
LWD Jam(s) ☐ D3 ☐ Side ☐ Span
Sediment Wedges ☐ S3 ☐ Diag. ☐ Braid

Site/Reach Card

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

Reach 2.0

ILP # 10346

Site # 552

ILP Map # 93L.100

Project Name Northwood Pulp and Timber Fish Inventory

Project Code 06-BABL-0103-0606-1998

FEATURES**HABITAT QUALITY**

FSZs

Side Chan ☐Flood/Beaver ☐Tribes ☐Flood Chan ☐Slough ☐**Name** **Comments**

Rearing Habitat Moderate rearing habitat

Spawning Habitat Moderate spawning habitat

PHOTO DOCUMENTATION**Film** **Compact Disc** **Lens / Dir.** **Comments**

Roll 505 Fr 17 CD 277 Im 117 STD U

Roll 505 Fr 18 CD 277 Im 118 STD D

WILDLIFE**COMMENTS****Form** **Section** **Comments**

SITE MORPHOLOGY Gradient may be a barrier - access may be difficult - stream is likely flashy

SITE WATER Electroshockable water difficult to find - should resample downstream

Site/Reach Card

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

Reach 1.0

ILP # 10346

Site # 553

ILP Map # 93L.100

Project Name Northwood Pulp and Timber Fish Inventory

Project Code 06-BABL-0103-0606-1998

REACH ATTRIBUTES

Sample Type B

Length (km) .41 Elevation (m): upstream 960 downstream 930 UTM (Zone/East/North/ method)
 Gradient (%) 7.3 Order 2 Magnitude 6 BGC Zone SBS
 Setting Valley Wall Bars ☒ None ☐ Side ☐ Diagonal ☐ Mid ☐ Span ☐ Braid
 Open water A Wetland ☐ Mass Movement Not Specified Active Floodplain ☐
 Confinement Frequently Confined Exposed/Eroded Not Specified Width (m)
 Coupling Coupled Islands Not Specified Beaver Dam(s) ☐
 Channel Pattern Irregular, Wandering Landuse None/natural LWD jam(s) ☐
 Riparian Vegetation Mixed C/D Valley Flat Not Specified (C)ontinuous ☐
 (D)iscontinuous ☐

SITE

Gazetted Name Local Name Unnamed
 Survey Date 1998/09/25 Time 12:40 FIELD UTM(Zone/East/North/Method)
 Crew JH/JM Access H MAP UTM (Zone/East/North/Method) GIS
 Site Length (m) 300 Method GE Fish Card ☐ Incomplete ☐ NID Map 93M.010 NID # 50053

CHANNEL

								Average	Method(s)		
Channel Widths (m)	2.6	3.4	2.9	2.8	2.6	4.1		3.1	T		
Wetted Widths (m)	1.4	1.9	0.4	0.3	0.7	0.8		0.9	T		
Resid. Pool Depths (m)	0.25	0.23	0.25	0.27	0.10	0.20		0.22	T		
No Vis.Ch. ☐			Dewatered ☐			Gradients (%)		12.0	7.0	9.5	C ,
Intermittent ☐			Tributaries ☐			Bankfull Depth (m)		0.3	0.3	0.3	T

Stage ☒ Low
☐ Med.
☐ High

COVER -		Total	Abundant	LWD	Few	Dist.	Evenly Distributed
SWD	LWD	Boulder	Cutbank	Deep Pool	Over Veg	Instream Veg	
Trace	Sub-Dominant	Trace	None	Trace	Dominant	Trace	

Crown Closure
 1-20%

Instream Vegetation
☐ None ☒ Moss
☐ Algae ☐ Vasc.

LEFT BANK

Shape Sloping (gradual or shallow sloping)
 Riparian Veg. Deciduous
 Riparian Stage Pole-sapling stage

Texture ☐ Fines ☒ Gravel ☐ Cobble
☐ Boulder ☐ Rock ☐ Man Made

RIGHT BANK

Shape Sloping (gradual or shallow sloping)
 Riparian Veg. Deciduous
 Riparian Stage Pole-sapling stage

Texture ☐ Fines ☒ Gravel ☐ Cobble
☐ Boulder ☐ Rock ☐ Man Made

WATER

Temperature 6 Method T4 pH 7.2 Method P2 EMS #
 Conductivity 60 Method S2 Turbidity ☐ Turbid ☐ Medium ☐ Light ☒ Clear Method GE

MORPHOLOGY

BED Dominant Gravels D95(cm) (only 5%larger) 2
 MATERIAL Subdominant Not Applicable (same as Dominant) D (cm) (moveable) 5
 Channel Pattern Sinuous
 Coupling Coupled
 Confinement Frequently Confined
 Islands None

Morphology Code
 RP

Beaver Dam(s) ☐ O1
 Eroding Bank(s) ☐ B2
 LWD Jam(s) ☐ D3
 Sediment Wedges ☐ S3
 Bars
☒ None ☐ Mid
☐ Side ☐ Span
☐ Diag. ☐ Braid

Site/Reach Card

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

Reach 1.0

ILP # 10346

Site # 553

ILP Map # 93L.100

Project Name Northwood Pulp and Timber Fish Inventory

Project Code 06-BABL-0103-0606-1998

FEATURES**HABITAT QUALITY**

FSZs

Side Chan ☐Flood/Beaver ☐Tribes ☐Flood Chan ☐Slough ☐**Name****Comments**

Rearing Habitat

Moderate rearing habitat - access from lower reaches may be difficult - should resample downstream of reach. System is flashy.

PHOTO DOCUMENTATION

Film	Compact Disc				Lens / Dir.		Comments
Roll 505	Fr	19	CD 277	Im	119	STD U	
Roll 505	Fr	20	CD 277	Im	120	STD D	

WILDLIFE**COMMENTS****Form****Section****Comments**

SITE

WATER

Electroshockable water difficult to find.

Site/Reach Card

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

Reach 8.0

ILP # 10332

Site # 554

ILP Map # 93L.100

Project Name Northwood Pulp and Timber Fish Inventory

Project Code 06-BABL-0103-0606-1998

REACH ATTRIBUTES

Sample Type R

Length (km) 1.62 Elevation (m): upstream 1090 downstream 960 UTM (Zone/East/North/ method)

Gradient (%) 8.0 Order 1 Magnitude 1 BGC Zone SBS

Setting Valley Wall Bars ☒ None ☐ Side ☐ Diagonal ☐ Mid ☐ Span ☐ Braid

Open water A Wetland ☐

Mass Movement Not Specified

Active Floodplain ☐

Confinement Frequently Confined

Exposed/Eroded Not Specified

Width (m)

Coupling Decoupled

Islands Not Specified

Beaver Dam(s) ☐

Channel Pattern Irregular, Wandering

Landuse Logging

LWD jam(s) ☐

Riparian Vegetation NONE

Valley Flat Not Specified

(C)ontinuous ☐

(D)iscontinuous ☐

SITE

Gazetted Name

Local Name Unnamed

Survey Date 1998/09/25

Time 13:38

FIELD UTM(Zone/East/North/Method)

Crew JH/JM

Access H

MAP UTM (Zone/East/North/Method)

GIS

Site Length (m) 100

Method GE

Fish Card ☐ Incomplete ☐

NID Map 93M.010

NID # 50054

CHANNEL

No Visible Channel ☒

Gradient(s) (%)

Vegetation

Veg. Stage

FEATURE

HABITAT QUALITY

FSZs

Side Chan ☐

Flood/Beaver ☐

Tribs. ☐

Flood Chan ☐

Slough ☐

PHOTO DOCUMENTATION

Film	Compact Disc	Lens / Dir.	Comments
Roll 505 Fr 21 CD 277 Im 121 STD U			No visible channel
Roll 505 Fr 22 CD 278 Im 1 STD D			No visible channel

COMMENT

Form	Section	Comments
SITE	CHANNEL	Seepage area

Site/Reach Card

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

Reach 1.0
Site # 559

ILP # 19318
ILP Map # 93M.019

Project Name Northwood Pulp and Timber Fish Inventory

Project Code 06-BABL-0103-0606-1998

REACH ATTRIBUTES

Sample Type R

Length (km) .20 Elevation (m): upstream 840 downstream 830 UTM (Zone/East/North/ method)

Gradient (%) 5.0 Order 1 Magnitude 1 BGC Zone SBS

Setting Valley Wall Bars ☒ None ☐ Side ☐ Diagonal ☐ Mid ☐ Span ☐ Braid

Open water A Wetland ☐

Mass Movement Not Specified

Active Floodplain ☐

Confinement Occasionally Confined

Exposed/Eroded Unknown, Not visible

Width (m)

Coupling Not Specified

Islands None Visible

Beaver Dam(s) ☐

Channel Pattern Irregular, Wandering

Landuse None/natural

LWD jam(s) ☐

Riparian Vegetation Mixed C/D

Valley Flat Not Specified

(C)ontinuous ☐

(D)iscontinuous ☐

SITE

Gazetted Name

Local Name Unnamed

Survey Date 1998/09/26

Time 09:49

FIELD UTM(Zone/East/North/Method)

Crew JH/JM

Access H

MAP UTM (Zone/East/North/Method)

GIS

Site Length (m) 100

Method GE

Fish Card ☐ Incomplete ☐

NID Map 93M.019

NID # 50059

CHANNEL

No Visible Channel ☒

Gradient(s) (%)

Vegetation

Veg. Stage

FEATURE

HABITAT QUALITY

FSZs

Side Chan ☐

Flood/Beaver ☐

Tribs. ☐

Flood Chan ☐

Slough ☐

PHOTO DOCUMENTATION

Film	Compact Disc	Lens / Dir.	Comments
Roll 505 Fr 31 CD 278 Im 2 STD U			No visible channel
Roll 505 Fr 32 CD 278 Im 3 STD D			No visible channel

COMMENT

Form	Section	Comments
SITE	CHANNEL	Seepage area

Site/Reach Card

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

Reach 5.0

ILP # 19309

Site # 560

ILP Map # 93M.019

Project Name Northwood Pulp and Timber Fish Inventory

Project Code 06-BABL-0103-0606-1998

REACH ATTRIBUTES

Sample Type B

Length (km) 1.00 Elevation (m): upstream 1050 downstream 1000 UTM (Zone/East/North/ method)
 Gradient (%) 5.0 Order 3 Magnitude 9 BGC Zone SBS
 Setting Valley Wall Bars ☒ None ☐ Side ☐ Diagonal ☐ Mid ☐ Span ☐ Braid
 Open water A Wetland ☐ Mass Movement Not Specified Active Floodplain ☐
 Confinement Occasionally Confined Exposed/Eroded Unknown, Not visible Width (m)
 Coupling Not Specified Islands NONE Beaver Dam(s) ☐
 Channel Pattern Irregular, Wandering Landuse None/natural LWD jam(s) ☐
 Riparian Vegetation Coniferous Valley Flat Not Specified (C)ontinuous ☐
 (D)iscontinuous ☐

SITE

Gazetted Name Local Name Unnamed
 Survey Date 1998/09/26 Time 10:21 FIELD UTM(Zone/East/North/Method)
 Crew JH/JM Access H MAP UTM (Zone/East/North/Method) GIS
 Site Length (m) 400 Method GE Fish Card ☒ Incomplete ☐ NID Map 93M.019 NID # 50060

CHANNEL

							Average	Method(s)
Channel Widths (m)	4.1	6.3	2.6	2.1	3.2	3.5	3.6	T
Wetted Widths (m)	1.1	1.2	1.3	0.7	1.9	1.6	1.3	T
Resid. Pool Depths (m)	0.05	0.07	0.10	0.08	0.12	0.10	0.09	T
No Vis.Ch. ☐							Gradients (%)	4.0 5.0 4.5 C ,
Intermittent ☐							Dewatered ☐	
							Tributaries ☐	
							Bankfull Depth (m)	0.3 0.4 0.4 0.4 T

Stage ☒ Low
☐ Med.
☐ High

COVER -		Total	Abundant	LWD	Few	Dist.	Clumped
SWD	LWD	Boulder	Cutbank	Deep Pool	Over Veg	Instream Veg	
Dominant	Sub-Dominant	None	Sub-Dominant	Sub-Dominant	Dominant	None	

Crown Closure
 1-20%

Instream Vegetation

☒ None ☐ Moss
☐ Algae ☐ Vasc.

LEFT BANK

Shape Undercut
 Riparian Veg. Mixed C/D
 Riparian Stage Pole-sapling stage

Texture ☒ Fines ☐ Gravel ☐ Cobble
☐ Boulder ☐ Rock ☐ Man Made

RIGHT BANK

Shape Undercut
 Riparian Veg. Mixed C/D
 Riparian Stage Mature forest

Texture ☒ Fines ☐ Gravel ☐ Cobble
☐ Boulder ☐ Rock ☐ Man Made

WATER

Temperature 5 Method T4 pH 8.5 Method P2 EMS #
 Conductivity 50 Method S2 Turbidity ☐ Turbid ☐ Medium ☐ Light ☒ Clear Method GE

MORPHOLOGY

BED Dominant Gravels D95(cm) (only 5%larger) 4
 MATERIAL Subdominant Not Applicable (same as Dominant) D (cm) (moveable) 6

Channel Pattern Regular Meanders
 Coupling Partially Coupled
 Confinement Occasionally Confined
 Islands None

Morphology Code
 RP

Beaver Dam(s) ☐ O1
 Eroding Bank(s) ☐ B2 ☐ None ☐ Mid
 LWD Jam(s) ☐ O3 ☒ Side ☐ Span
 Sediment Wedges ☐ S3 ☐ Diag. ☐ Braid

Site/Reach Card

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

Reach 5.0

ILP # 19309

Site # 560

ILP Map # 93M.019

Project Name Northwood Pulp and Timber Fish Inventory

Project Code 06-BABL-0103-0606-1998

FEATURES**HABITAT QUALITY**

FSZs

Side Chan ☐Flood/Beaver ☐Tribes ☐Flood Chan ☐Slough ☐

Name

Comments

Rearing Habitat

Good rearing habitat

PHOTO DOCUMENTATION

Film

Compact Disc

Lens / Dir.

Comments

Roll 505 Fr 33 CD 278 Im 4 STD U

Roll 505 Fr 34 CD 278 Im 5 STD D

WILDLIFE**COMMENTS**

FDIS Fish Form

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

Reach # 5.0

ILP # 19309

ILP Map # 93M.019

Project Name Northwood Pulp and Timber Fish Inventory

Project Code 06-BABL-0103-0606-1998

Lake / Stream	S	SITE / METHOD				Waterbody ID	
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Permit 34770-20 Date: 1998/09/26 To: 1998/09/26 Crew: JH/JM Resample ☐

Site	NID MAP	NID	UTM:Zone/East/North/ Mthd	MTD/NO	Temp	Cond	Turbid	Comment
560	93M.019	50060		EF 1	5.0	50	C	

GEAR SETTINGS

Site	MTD/NO	H/P	Date In	Time In	Date Out	Time Out	Comment
560	EF 1	1	1998/09/26	10:22	1998/09/26	10:40	

NET/TRAP SPECIFICATIONS

ELECTROFISHER SPECIFICATIONS

Site	MTD/NO	H/P	Encl	Sec.	Length	Width	Volts	Hz	Pulse	Make	Model
560	EF 1	1	O	406	400.0	3.0	400	60	5	SR	TYPE VII

FISH SUMMARY

Site	MTD/NO	H/P	Species	Stage	Age	Total #	Lgth (Min/Max)	Activity	Comment
560	EF	1	1	NFC		0			

INDIVIDUAL FISH DATA

COMMENTS

Section	Comments
WATERBODY	No fish caught

Site/Reach Card

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

Reach 8.0

ILP # 19309

Site # 561

ILP Map # 93M.019

Project Name Northwood Pulp and Timber Fish Inventory

Project Code 06-BABL-0103-0606-1998

REACH ATTRIBUTES

Sample Type B

Length (km) 1.10 Elevation (m): upstream 1220 downstream 1155 UTM (Zone/East/North/ method)
 Gradient (%) 5.9 Order 1 Magnitude 1 BGC Zone SBS
 Setting Valley Wall Bars ☒ None ☐ Side ☐ Diagonal ☐ Mid ☐ Span ☐ Braid
 Open water A Wetland ☐ Mass Movement Not Specified Active Floodplain ☐
 Confinement Occasionally Confined Exposed/Eroded Not Specified Width (m)
 Coupling Not Specified Islands Not Specified Beaver Dam(s) ☐
 Channel Pattern Irregular, Wandering Landuse Not Specified LWD jam(s) ☐
 Riparian Vegetation Not Specified Valley Flat Not Specified (C)ontinuous ☐
 (D)iscontinuous ☐

SITE

Gazetted Name Local Name Unnamed
 Survey Date 1998/09/26 Time 11:13 FIELD UTM(Zone/East/North/Method)
 Crew JH/JM Access H MAP UTM (Zone/East/North/Method) GIS
 Site Length (m) 100 Method GE Fish Card ☒ Incomplete ☐ NID Map 93M.019 NID # 50061

CHANNEL

							Average	Method(s)
Channel Widths (m)	0.3	0.6	0.8	0.3	0.7	1.4	0.7	T
Wetted Widths (m)	0.2	0.3	0.6	0.3	0.3	0.3	0.3	T
Resid. Pool Depths (m)	0.05	0.08	0.05	0.10	0.05	0.05	0.06	T
No Vis.Ch. ☐							Gradients (%) 3.0 2.0	2.5 AL ,
Intermittent ☐							Dewatered ☐	
							Tributaries ☐	
							Bankfull Depth (m) 0.2 0.3 0.2	0.2 T

Stage ☐ Low
☒ Med.
☐ High

COVER - Total Moderate LWD None Dist. Not Applicable
 SWD LWD Boulder Cutbank Deep Pool Over Veg Instream Veg
 Trace None None Dominant Sub-Dominant Sub-Dominant Sub-Dominant

Crown Closure
 1-20%

Instream Vegetation
☐ None ☒ Moss
☐ Algae ☐ Vasc.

LEFT BANK
 Shape Undercut
 Riparian Veg. Coniferous
 Riparian Stage Mature forest
 Texture ☒ Fines ☐ Gravel ☐ Cobble
☐ Boulder ☐ Rock ☐ Man Made

RIGHT BANK
 Shape Undercut
 Riparian Veg. Coniferous
 Riparian Stage Mature forest
 Texture ☒ Fines ☐ Gravel ☐ Cobble
☐ Boulder ☐ Rock ☐ Man Made

WATER

Temperature 6 Method T4 pH 8.5 Method P2 EMS #
 Conductivity 80 Method S2 Turbidity ☐ Turbid ☐ Medium ☐ Light ☒ Clear Method GE

MORPHOLOGY

BED Dominant Fines D95(cm) (only 5% larger) 5
 MATERIAL Subdominant Cobble D (cm) (moveable) 12
 Channel Pattern Irregular Meanders
 Coupling Partially Coupled
 Confinement Occasionally Confined
 Islands None
 Morphology Code
 RP
 Beaver Dam(s) ☐ O1
 Eroding Bank(s) ☐ B2 ☒ None ☐ Mid
 LWD Jam(s) ☐ D3 ☐ Side ☐ Span
 Sediment Wedges ☐ S3 ☐ Diag. ☐ Braid

Site/Reach Card

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

Reach 8.0

ILP # 19309

Site # 561

ILP Map # 93M.019

Project Name Northwood Pulp and Timber Fish Inventory

Project Code 06-BABL-0103-0606-1998

FEATURES**HABITAT QUALITY**

FSZs

Side Chan ☐Flood/Beaver ☐Tribes. ☐Flood Chan ☐Slough ☐**PHOTO DOCUMENTATION**

Film			Compact Disc			Lens / Dir.	Comments
Roll 505	Fr	35	CD 278	Im	6	STD U	
Roll 506	Fr	1	CD 278	Im	7	STD D	

WILDLIFE**COMMENTS**

FDIS Fish Form

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

Reach # 8.0

ILP # 19309

ILP Map # 93M.019

Project Name Northwood Pulp and Timber Fish Inventory

Project Code 06-BABL-0103-0606-1998

Lake / Stream	S	SITE/METHOD						Waterbody ID	
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Permit 34770-20 Date: 1998/09/26 To: 1998/09/26 Crew: JH/JM Resample ☐

Site	NID MAP	NID	UTM:Zone/East/North/ Mthd	MTD/NO	Temp	Cond	Turbid	Comment
561	93M.019	50061		EF 1	6.0	80	C	

GEAR SETTINGS

Site	MTD/NO	H/P	Date In	Time In	Date Out	Time Out	Comment
561	EF 1	1	1998/09/26	11:14	1998/09/26	11:40	

NET/TRAP SPECIFICATIONS

ELECTROFISHER SPECIFICATIONS

Site	MTD/NO	H/P	Encl	Sec.	Length	Width	Volts	Hz	Pulse	Make	Model
561	EF 1	1	O	131	100.0	1.0	500	60	5	SR	TYPE VII

FISH SUMMARY

Site	MTD/NO	H/P	Species	Stage	Age	Total #	Lgth (Min/Max)	Activity	Comment
561	EF	1 1	NFC			0			

INDIVIDUAL FISH DATA

COMMENTS

Section	Comments
WATERBODY	No fish caught

Site/Reach Card

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

Reach 9.0

ILP # 29304

Site # 562

ILP Map # 93M.029

Project Name Northwood Pulp and Timber Fish Inventory

Project Code 06-BABL-0103-0606-1998

REACH ATTRIBUTES

Sample Type B

Length (km) .69 Elevation (m): upstream 1160 downstream 1135 UTM (Zone/East/North/ method)
 Gradient (%) 3.6 Order 1 Magnitude 1 BGC Zone SBS
 Setting Valley Floor Bars ☒ None ☐ Side ☐ Diagonal ☐ Mid ☐ Span ☐ Braid
 Open water A Wetland ☒ Mass Movement Not Specified Active Floodplain ☐
 Confinement Occasionally Confined Exposed/Eroded Unknown, Not visible Width (m)
 Coupling Decoupled Islands None Visible Beaver Dam(s) ☐
 Channel Pattern Regular Meanders Landuse Not Specified LWD jam(s) ☐
 Riparian Vegetation Not Specified Valley Flat Not Specified (C)ontinuous ☐
 (D)iscontinuous ☐

SITE

Gazetted Name Local Name Unnamed
 Survey Date 1998/09/26 Time 11:55 FIELD UTM(Zone/East/North/Method)
 Crew JH/JM Access H MAP UTM (Zone/East/North/Method) GIS
 Site Length (m) 150 Method GE Fish Card ☒ Incomplete ☐ NID Map 93M.019 NID # 50062

CHANNEL

							Average	Method(s)
Channel Widths (m)	1.2	1.3	1.2	1.4	1.0	2.6	1.4	T
Wetted Widths (m)	1.2	1.3	1.2	1.4	1.0	2.6	1.4	T
Resid. Pool Depths (m)	0.40	0.45	0.40	0.42	0.43	0.40	0.42	T
No Vis.Ch. ☐							Gradients (%) 4.0 3.0	3.5 C,
Intermittent ☐							Dewatered ☐	
							Tributaries ☐	
							Bankfull Depth (m) 0.4 0.4 0.4	0.4 T

Stage ☐ Low
☐ Med.
☒ High

COVER -		Total	Trace	LWD	None	Dist.	Not Applicable
SWD	LWD	Boulder	Cutbank	Deep Pool	Over Veg	Instream Veg	
None	None	None	None	Trace	Sub-Dominant	None	

Crown Closure
 1-20%

Instream Vegetation

☒ None ☐ Moss
☐ Algae ☐ Vasc.

LEFT BANK

Shape Sloping (gradual or shallow sloping)
 Riparian Veg. Wetland
 Riparian Stage Not Applicable

Texture ☒ Fines ☐ Gravel ☐ Cobble
☐ Boulder ☐ Rock ☐ Man Made

RIGHT BANK

Shape Sloping (gradual or shallow sloping)
 Riparian Veg. Wetland
 Riparian Stage Not Applicable

Texture ☒ Fines ☐ Gravel ☐ Cobble
☐ Boulder ☐ Rock ☐ Man Made

WATER

Temperature 6 Method T4 pH 7.5 Method P2 EMS #
 Conductivity 100 Method S2 Turbidity ☐ Turbid ☐ Medium ☒ Light ☐ Clear Method GE

MORPHOLOGY

BED Dominant Fines D95(cm) (only 5%larger) 0.1
 MATERIAL Subdominant Not Applicable (same as Dominant) D (cm) (moveable) 0.1

Channel Pattern Irregular, Wandering
 Coupling Partially Coupled
 Confinement Unconfined
 Islands None

Morphology Code
 NS

Beaver Dam(s) ☐ O1
 Eroding Bank(s) ☐ B2 ☒ None ☐ Mid
 LWD Jam(s) ☐ D3 ☐ Side ☐ Span
 Sediment Wedges ☐ S3 ☐ Diag. ☐ Braid

Site/Reach Card

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

Reach 9.0

ILP # 29304

Site # 562

ILP Map # 93M.029

Project Name Northwood Pulp and Timber Fish Inventory

Project Code 06-BABL-0103-0606-1998

FEATURES**HABITAT QUALITY**

FSZs

Side Chan ☐Flood/Beaver ☐Tribes ☐Flood Chan ☐Slough ☐**Name****Comments**

Rearing Habitat

Moderate rearing habitat if access possible from downstream and if lake has fish

Spawning Habitat

Poor spawning habitat - 100% fines for substrate

PHOTO DOCUMENTATION

Film	Compact Disc				Lens / Dir.		Comments	
Roll 506	Fr	2	CD	278	Im	8	STD U	Wetland - swamp
Roll 506	Fr	3	CD	278	Im	9	STD D	

WILDLIFE**COMMENTS****Form****Section****Comments**

SITE

MORPHOLOGY

Reach should be classified as a wetland

Site/Reach Card

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

Reach 4.0

ILP # 19351

Site # 563

ILP Map # 93M.019

Project Name Northwood Pulp and Timber Fish Inventory

Project Code 06-BABL-0103-0606-1998

REACH ATTRIBUTES

Sample Type R

Length (km) .18 Elevation (m): upstream 1305 downstream 1300 UTM (Zone/East/North/ method)
 Gradient (%) 2.8 Order 1 Magnitude 1 BGC Zone SBS
 Setting Valley Floor Bars ☒ None ☐ Side ☐ Diagonal ☐ Mid ☐ Span ☐ Braid
 Open water A Wetland ☒ Mass Movement Low or no impact to channel; Active Floodplain ☐
 Confinement Unconfined Exposed/Eroded Unknown, Not visible Width (m)
 Coupling Decoupled Islands None Visible Beaver Dam(s) ☐
 Channel Pattern Straight Landuse None/natural LWD jam(s) ☐
 Riparian Vegetation Grass Valley Flat Not Specified (C)ontinuous ☐
 (D)iscontinuous ☐

SITE

Gazetted Name Local Name Unnamed
 Survey Date 1998/09/26 Time 14:42 FIELD UTM(Zone/East/North/Method)
 Crew JH/JM Access H MAP UTM (Zone/East/North/Method) GIS
 Site Length (m) 100 Method GE Fish Card ☐ Incomplete ☐ NID Map 93M.019 NID # 50063

CHANNEL

	Average	Method(s)
Channel Widths (m) 0.3 0.4 0.3 0.4 0.4 0.4	0.4	T
Wetted Widths (m)	n/a	T
Resid. Pool Depths (m)	n/a	T

No Vis.Ch. ☐ Dewatered ☐
 Intermittent ☒ Tributaries ☐
 Gradients (%) 20.0 15.0 17.5 C ,
 Bankfull Depth (m) n/a T

Stage ☒ Low
☐ Med.
☐ High

COVER -		Total	Abundant	LWD	None	Dist.	Not Applicable
SWD	LWD	Boulder	Cutbank	Deep Pool	Over Veg	Instream Veg	
Trace	None	None	Dominant	None	Dominant	None	

Crown Closure
 21-40%

Instream Vegetation
☒ None ☐ Moss
☐ Algae ☐ Vasc.

LEFT BANK
 Shape Undercut
 Riparian Veg. Coniferous
 Riparian Stage Pole-sapling stage

Texture ☒ Fines ☐ Gravel ☐ Cobble
☐ Boulder ☐ Rock ☐ Man Made

RIGHT BANK
 Shape Undercut
 Riparian Veg. Coniferous
 Riparian Stage Pole-sapling stage
 Texture ☒ Fines ☐ Gravel ☐ Cobble
☐ Boulder ☐ Rock ☐ Man Made

WATER

Temperature Method T4 pH Method P2 EMS #
 Conductivity Method S2 Turbidity ☐ Turbid ☐ Medium ☐ Light ☐ Clear Method GE

MORPHOLOGY

BED Dominant Gravels D95(cm) (only 5%larger) 6
 MATERIAL Subdominant Cobble D (cm) (moveable) 8
 Channel Pattern Straight
 Coupling Coupled
 Confinement Frequently Confined
 Islands None
 Morphology Code
 RP
 Beaver Dam(s) ☐ O1
 Eroding Bank(s) ☐ B2 ☒ None ☐ Mid
 LWD Jam(s) ☐ D3 ☐ Side ☐ Span
 Sediment Wedges ☐ S3 ☐ Diag. ☐ Braid

Site/Reach Card

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

Reach 4.0

ILP # 19351

Site # 563

ILP Map # 93M.019

Project Name Northwood Pulp and Timber Fish Inventory

Project Code 06-BABL-0103-0606-1998

FEATURES**HABITAT QUALITY**

FSZs

Side Chan ☐Flood/Beaver ☐Tribes ☐Flood Chan ☐Slough ☐**PHOTO DOCUMENTATION**

Film			Compact Disc			Lens / Dir.	Comments
Roll 506	Fr	7	CD 278	Im	13	STD U	
Roll 506	Fr	8	CD 278	Im	14	STD D	

WILDLIFE**COMMENTS**

Form	Section	Comments
SITE	CHANNEL	Ephemeral stream - subsurface flows

Site/Reach Card

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

Reach 6.0

ILP # 19319

Site # 564

ILP Map # 93M.019

Project Name Northwood Pulp and Timber Fish Inventory

Project Code 06-BABL-0103-0606-1998

REACH ATTRIBUTES

Sample Type R

Length (km) 1.14 Elevation (m): upstream 1010 downstream 962 UTM (Zone/East/North/ method)
 Gradient (%) 4.2 Order 2 Magnitude 3 BGC Zone SBS
 Setting Valley Wall Bars ☒ None ☐ Side ☐ Diagonal ☐ Mid ☐ Span ☐ Braid
 Open water A Wetland ☐ Mass Movement Not Specified Active Floodplain ☐
 Confinement Occasionally Confined Exposed/Eroded Unknown, Not visible Width (m)
 Coupling Partially Coupled Islands None Visible Beaver Dam(s) ☐
 Channel Pattern Irregular, Wandering Landuse None/natural LWD jam(s) ☐
 Riparian Vegetation Shrubs Valley Flat Not Specified (C)ontinuous ☐
 (D)iscontinuous ☐

SITE

Gazetted Name Local Name Unnamed
 Survey Date 1998/09/26 Time 14:25 FIELD UTM(Zone/East/North/Method)
 Crew JH/JM Access H MAP UTM (Zone/East/North/Method) GIS
 Site Length (m) 200 Method GE Fish Card ☒ Incomplete ☐ NID Map 93M.020 NID # 50064

CHANNEL

							Average	Method(s)
Channel Widths (m)	1.9	1.8	2.4	1.7	1.5	1.9	1.9	T
Wetted Widths (m)	0.8	1.6	2.3	0.7	0.4	0.9	1.1	T
Resid. Pool Depths (m)	0.05	0.10	0.05	0.12	0.10	0.10	0.09	T

No Vis.Ch. ☐	Dewatered ☐	Gradients (%)	7.0	5.0	6.0	C ,
Intermittent ☐	Tributaries ☐	Bankfull Depth (m)	0.2	0.2	0.3	T

Stage ☐ Low
☒ Med.
☐ High

COVER -		Total	Abundant	LWD	Abundant	Dist.	Clumped
SWD	LWD	Boulder	Cutbank	Deep Pool	Over Veg	Instream Veg	
Sub-Dominant	Dominant	Trace	Sub-Dominant	Sub-Dominant	Dominant	Trace	

Crown Closure
 21-40%

Instream Vegetation

☐ None ☒ Moss
☐ Algae ☐ Vasc.

LEFT BANK

Shape Sloping (gradual or shallow sloping)
 Riparian Veg. Mixed C/D
 Riparian Stage Mature forest

Texture ☒ Fines ☐ Gravel ☐ Cobble
☐ Boulder ☐ Rock ☐ Man Made

RIGHT BANK

Shape Sloping (gradual or shallow sloping)
 Riparian Veg. Mixed C/D
 Riparian Stage Mature forest

Texture ☒ Fines ☐ Gravel ☐ Cobble
☐ Boulder ☐ Rock ☐ Man Made

WATER

Temperature 7 Method T4 pH 8.0 Method P2 EMS #
 Conductivity 60 Method S2 Turbidity ☐ Turbid ☐ Medium ☐ Light ☒ Clear Method GE

MORPHOLOGY

BED Dominant Gravels D95(cm) (only 5%larger) 9
 MATERIAL Subdominant Cobble D (cm) (moveable) 14

Channel Pattern Regular Meanders
 Coupling Partially Coupled
 Confinement Frequently Confined
 Islands None

Morphology Code
 RP

Beaver Dam(s) ☐ O1
 Eroding Bank(s) ☐ B2 ☐ None ☐ Mid
 LWD Jam(s) ☐ D3 ☒ Side ☐ Span
 Sediment Wedges ☐ S3 ☐ Diag. ☐ Braid

Site/Reach Card

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

Reach 6.0

ILP # 19319

Site # 564

ILP Map # 93M.019

Project Name Northwood Pulp and Timber Fish Inventory

Project Code 06-BABL-0103-0606-1998

FEATURES**HABITAT QUALITY**

FSZs

Side Chan ☐Flood/Beaver ☐Tribes ☐Flood Chan ☐Slough ☐**Name****Comments**

Rearing Habitat

good rearing habitat

PHOTO DOCUMENTATION

Film	Compact Disc	Lens / Dir.	Comments
Roll 506 Fr 10 CD 278 Im 16 STD D			
Roll 506 Fr 9 CD 278 Im 15 STD U			

WILDLIFE**COMMENTS**

Site/Reach Card

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

Reach 1.0

ILP # 1322

Site # 566

ILP Map # 93L.090

Project Name Northwood Pulp and Timber Fish Inventory

Project Code 06-BABL-0103-0606-1998

REACH ATTRIBUTES

Sample Type R

Length (km) .10 Elevation (m): upstream 719 downstream 718 UTM (Zone/East/North/ method)

Gradient (%) 1.0 Order 1 Magnitude 1 BGC Zone SBS

Setting Valley Wall

Bars ☒ None ☐ Side ☐ Diagonal ☐ Mid ☐ Span ☐ BraidOpen water A Wetland ☒

Mass Movement Not Specified

Active Floodplain ☐

Confinement Unconfined

Exposed/Eroded Not Specified

Width (m)

Coupling Decoupled

Islands Not Specified

Beaver Dam(s) ☐

Channel Pattern Irregular, Wandering

Landuse None/natural

LWD jam(s) ☐

Riparian Vegetation Shrubs

Valley Flat Not Specified

(C)ontinuous ☐
(D)iscontinuous**SITE**

Gazetted Name

Local Name Unnamed

Survey Date 1998/09/27

Time 09:30

FIELD UTM(Zone/East/North/Method)

Crew JH/JM

Access H

MAP UTM (Zone/East/North/Method)

GIS

Site Length (m) 100

Method GE

Fish Card ☐ Incomplete ☐

NID Map 93L.090

NID # 50066

CHANNELNo Visible Channel ☒

Gradient(s) (%)

Vegetation

Veg. Stage

FEATURE**HABITAT QUALITY**

FSZs

Side Chan ☐Flood/Beaver ☐Tribes ☐Flood Chan ☐Slough ☐**PHOTO DOCUMENTATION**

Film Compact Disc Lens / Dir. Comments

Roll 506 Fr 15 CD 278 Im 21 STD U No visible channel

Roll 506 Fr 16 CD 278 Im 22 STD D No visible channel

C O M M E N T

Form	Section	Comments
SITE	CHANNEL	vegetated gully

Site/Reach Card

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

Reach 1.0

ILP # 1309

Site # 567

ILP Map # 93L.090

Project Name Northwood Pulp and Timber Fish Inventory

Project Code 06-BABL-0103-0606-1998

REACH ATTRIBUTES

Sample Type R

Length (km) .22 Elevation (m): upstream 721 downstream 711 UTM (Zone/East/North/ method)
 Gradient (%) 4.6 Order 3 Magnitude 18 BGC Zone SBS
 Setting Valley Floor Bars ☒ None ☐ Side ☐ Diagonal ☐ Mid ☐ Span ☐ Braid
 Open water A Wetland ☒ Mass Movement Not Specified Active Floodplain ☐
 Confinement Unconfined Exposed/Eroded Not Specified Width (m)
 Coupling Decoupled Islands Not Specified Beaver Dam(s) ☐
 Channel Pattern Sinuous Landuse None/natural LWD jam(s) ☐
 Riparian Vegetation Shrubs Valley Flat Not Specified (C)ontinuous ☐
 (D)iscontinuous ☐

SITE

Gazetted Name Local Name Unnamed
 Survey Date 1998/09/27 Time 09:59 FIELD UTM(Zone/East/North/Method)
 Crew JH/JM Access H MAP UTM (Zone/East/North/Method) GIS
 Site Length (m) 100 Method GE Fish Card ☒ Incomplete ☐ NID Map 93L.090 NID # 50067

CHANNEL

							Average	Method(s)
Channel Widths (m)	0.4	1.2	0.9	0.8	0.8	0.6	0.8	T
Wetted Widths (m)	0.4	1.0	0.9	0.8	0.8	0.6	0.7	T
Resid. Pool Depths (m)	0.20	0.25	0.15	0.20	0.15	0.18	0.19	T

No Vis.Ch. ☐ Dewatered ☐
 Intermittent ☐ Tributaries ☐
 Gradients (%) 4.0 3.0 3.5 AL ,
 Bankfull Depth (m) 0.4 0.4 0.3 0.4 T

Stage ☐ Low
☒ Med.
☐ High

COVER -		Total	Moderate	LWD	None	Dist.	Not Applicable
SWD	LWD	Boulder	Cutbank	Deep Pool	Over Veg	Instream Veg	
None	None	None	Trace	Sub-Dominant	Sub-Dominant	None	

Crown Closure
 1-20%

Instream Vegetation

☒ None ☐ Moss
☐ Algae ☐ Vasc.

LEFT BANK

Shape Sloping (gradual or shallow sloping)
 Riparian Veg. Deciduous
 Riparian Stage Pole-sapling stage
 Texture ☒ Fines ☐ Gravel ☐ Cobble
☐ Boulder ☐ Rock ☐ Man Made

RIGHT BANK

Shape Sloping (gradual or shallow sloping)
 Riparian Veg. Deciduous
 Riparian Stage Pole-sapling stage
 Texture ☒ Fines ☐ Gravel ☐ Cobble
☐ Boulder ☐ Rock ☐ Man Made

WATER

Temperature 9 Method T4 pH 9.4 Method P2 EMS #
 Conductivity 100 Method S2 Turbidity ☐ Turbid ☒ Medium ☐ Light ☐ Clear Method GE

MORPHOLOGY

BED Dominant Fines D95(cm) (only 5% larger) 0.1
 MATERIAL Subdominant Not Applicable (same as Dominant) D (cm) (moveable) 0.1

Channel Pattern Irregular, Wandering
 Coupling Decoupled
 Confinement Unconfined
 Islands None

Morphology Code
 RP

Beaver Dam(s) ☒ O1
 Eroding Bank(s) ☐ B2 ☒ None ☐ Mid
 LWD Jam(s) ☐ D3 ☐ Side ☐ Span
 Sediment Wedges ☐ S3 ☐ Diag. ☐ Braid

Site/Reach Card

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

Reach 1.0

ILP # 1309

Site # 567

ILP Map # 93L.090

Project Name Northwood Pulp and Timber Fish Inventory

Project Code 06-BABL-0103-0606-1998

FEATURES

Type BD Height 1.2 Method GE Length Method

Comments

Photograph Roll 506 Frame 19 UTM (Zone/East/North/ Method)

HABITAT QUALITY

FSZs

Side Chan ☐Flood/Beaver ☐Tribes ☐Flood Chan ☐Slough ☐**PHOTO DOCUMENTATION**

Film	Compact Disc				Lens / Dir.		Comments
Roll 506	Fr	17	CD 278	Im	23	STD U	
Roll 506	Fr	18	CD 278	Im	24	STD D	
Roll 506	Fr	19	CD 278	Im	25	STD D	Beaver dam
Roll 506	Fr	20	CD 278	Im	26	STD D	Access

WILDLIFE**COMMENTS**

Form	Section	Comments
SITE	CHANNEL	Access is possible from lake - Beaver dam present - Stagnant pools without flow throughout reach

FDIS Fish Form

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

Reach # 1.0

ILP # 1309

ILP Map # 93L.090

Project Name Northwood Pulp and Timber Fish Inventory

Project Code 06-BABL-0103-0606-1998

Lake / Stream	S	SITE / METHOD	Waterbody ID
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Permit 34770-20 Date: 1998/09/27 To: 1998/09/27 Crew: JH/JM Resample ☐

Site	NID MAP	NID	UTM:Zone/East/North/ Mthd	MTD/NO	Temp	Cond	Turbid	Comment
567	93L.090	50067		EF 1	9.0	100	M	

GEAR SETTINGS

Site	MTD/NO	H/P	Date In	Time In	Date Out	Time Out	Comment
567	EF 1	1	1998/09/27	10:00	1998/09/27	10:10	

NET/TRAP SPECIFICATIONS

ELECTROFISHER SPECIFICATIONS

Site	MTD/NO	H/P	Encl	Sec.	Length	Width	Volts	Hz	Pulse	Make	Model
567	EF 1	1	O	430	100.0	1.0	400	60	5	SR	POW-12A

FISH SUMMARY

Site	MTD/NO	H/P	Species	Stage	Age	Total #	Lgth (Min/Max)	Activity	Comment
567	EF 1	1	RB	J		5	70	80	R

INDIVIDUAL FISH DATA

Site	MTD/NO	H/P	Species	Length	Weight	Sex	Mat	Age	Vch#	Genetic	Photograph	Roll Fr.	Comment
				(mm)	(g)			Str / Smpl# / Age		Str/ Smpl#			
567	EF 1	1	RB	80		U	U						
567	EF 1	1	RB	80		U	U						
567	EF 1	1	RB	70		U	U						
567	EF 1	1	RB	70		U	U						
567	EF 1	1	RB	70		U	U						

COMMENTS

Section	Comments
WATERBODY	Other fish visually observed - same size and species

Site/Reach Card

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

Reach 1.0

ILP # 1300

Site # 568

ILP Map # 93L.090

Project Name Northwood Pulp and Timber Fish Inventory

Project Code 06-BABL-0103-0606-1998

REACH ATTRIBUTES

Sample Type R

Length (km) .10 Elevation (m): upstream 722 downstream 711 UTM (Zone/East/North/ method)
 Gradient (%) 11.0 Order 2 Magnitude 2 BGC Zone SBS
 Setting Valley Wall Bars ☒ None ☐ Side ☐ Diagonal ☐ Mid ☐ Span ☐ Braid
 Open water A Wetland ☐ Mass Movement Not Specified Active Floodplain ☐
 Confinement Occasionally Confined Exposed/Eroded Not Specified Width (m)
 Coupling Decoupled Islands Not Specified Beaver Dam(s) ☐
 Channel Pattern Straight Landuse None/natural LWD jam(s) ☐
 Riparian Vegetation Shrubs Valley Flat Not Specified (C)ontinuous ☐
 (D)iscontinuous ☐

SITE

Gazetted Name Local Name Unnamed
 Survey Date 1998/09/27 Time 10:44 FIELD UTM(Zone/East/North/Method)
 Crew JH/JM Access H MAP UTM (Zone/East/North/Method) GIS
 Site Length (m) 150 Method GE Fish Card ☐ Incomplete ☐ NID Map 93L.090 NID # 50068

CHANNEL

	1.5	2.1	2.4	1.9	1.8	2.5	Average	Method(s)
Channel Widths (m)							2.0	T
Wetted Widths (m)							n/a	T
Resid. Pool Depths (m)							n/a	T

No Vis.Ch. ☐ Dewatered ☐
 Intermittent ☒ Tributaries ☐
 Gradients (%) 6.0 4.0 5.0 C ,
 Bankfull Depth (m) n/a T

Stage ☒ Low
☐ Med.
☐ High

COVER -		Total	Abundant	LWD	Few	Dist.	Evenly Distributed
SWD	LWD	Boulder	Cutbank	Deep Pool	Over Veg	Instream Veg	
Sub-Dominant	Sub-Dominant	None	Dominant	None	Dominant	None	

Crown Closure
 21-40%

Instream Vegetation
☒ None ☐ Moss
☐ Algae ☐ Vasc.

LEFT BANK
 Shape Undercut
 Riparian Veg. Deciduous
 Riparian Stage Pole-sapling stage
 Texture ☒ Fines ☐ Gravel ☐ Cobble
☐ Boulder ☐ Rock ☐ Man Made

RIGHT BANK
 Shape Undercut
 Riparian Veg. Deciduous
 Riparian Stage Pole-sapling stage
 Texture ☒ Fines ☐ Gravel ☐ Cobble
☐ Boulder ☐ Rock ☐ Man Made

WATER

Temperature Method T4 pH Method P2 EMS #
 Conductivity Method Turbidity ☐ Turbid ☐ Medium ☐ Light ☐ Clear Method GE

MORPHOLOGY

BED Dominant Gravels D95(cm) (only 5%larger) 2
 MATERIAL Subdominant Not Applicable (same as Dominant) D (cm) (moveable) 3
 Channel Pattern Regular Meanders
 Coupling Partially Coupled
 Confinement Occasionally Confined
 Islands None
 Morphology Code RP
 Beaver Dam(s) ☐ O1
 Eroding Bank(s) ☐ B2 ☒ None ☐ Mid
 LWD Jam(s) ☐ D3 ☐ Side ☐ Span
 Sediment Wedges ☐ S3 ☐ Diag. ☐ Braid

Site/Reach Card

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

Reach 1.0

ILP # 1300

Site # 568

ILP Map # 93L.090

Project Name Northwood Pulp and Timber Fish Inventory

Project Code 06-BABL-0103-0606-1998

FEATURES**HABITAT QUALITY**

FSZs

Side Chan ☐Flood/Beaver ☐Tribes ☐Flood Chan ☐Slough ☐**Name****Comments**

Rearing Habitat

Ephemeral stream

Spawning Habitat

Ephemeral stream

PHOTO DOCUMENTATION**Film****Compact Disc****Lens / Dir.****Comments**

Roll 506 Fr 21 CD 278 Im 27 STD U dry

Roll 506 Fr 22 CD 278 Im 28 STD D dry channel - isolated patches of water

WILDLIFE**COMMENTS****Form****Section****Comments**

SITE

WATER

Pools deep enough to electroshock not found

Site/Reach Card

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

Reach 3.0
Site # 569

ILP # 71304
ILP Map # 93K.071

Project Name Northwood Pulp and Timber Fish Inventory

Project Code 06-BABL-0103-0606-1998

REACH ATTRIBUTES						Sample Type
Length (km)	.41	Elevation (m): upstream	900	downstream	860	UTM (Zone/East/North/ method)
Gradient (%)	9.8	Order	1	Magnitude	1	BGC Zone SBS
Setting	Valley Wall		Bars			☒ None ☐ Side ☐ Diagonal ☐ Mid ☐ Span ☐ Braid
Open water	A	Wetland	☐		Mass Movement	Not Specified
Confinement	Unconfined		Exposed/Eroded		Not Specified	Active Floodplain ☐
Coupling	Not Specified		Islands		None Visible	Beaver Dam(s) ☐
Channel Pattern	Sinuous		Landuse		None/natural	LWD jam(s) ☐
Riparian Vegetation	Not Specified		Valley Flat		Not Specified	(C)ontinuous ☐ (D)iscontinuous ☐

SITE			
Gazetted Name	Local Name Unnamed		
Survey Date	1998/09/27	Time	11:51
Crew	JH/JM	Access	H
Field UTM (Zone/East/North/Method)	MAP UTM (Zone/East/North/Method)		
GIS			
Site Length (m)	100	Method	GE
Fish Card	☐ Incomplete ☐	NID Map	93K.071
NID #	50069		

CHANNEL	
No Visible Channel ☒	
Gradient(s) (%)	
Vegetation	
Veg. Stage	

FEATURE			
HABITAT QUALITY		FSZs	Side Chan ☐
		Tribs. ☐	Flood/Beaver ☐
		Flood Chan ☐	Slough ☐

PHOTO DOCUMENTATION							
Film	Compact Disc		Lens / Dir.		Comments		
Roll 506	Fr	23	CD	278	Im	29	STD U No visible channel
Roll 506	Fr	24	CD	278	Im	30	STD D No visible channel

COMMENT		
Form	Section	Comments
SITE	CHANNEL	vegetated gully - no culvert placed at road - no flows - runoff may direct into ditch

Site/Reach Card

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

Reach 3.0

ILP # 10309

Site # 570

ILP Map # 93L.100

Project Name Northwood Pulp and Timber Fish Inventory

Project Code 06-BABL-0103-0606-1998

REACH ATTRIBUTES

Sample Type B

Length (km) .57 Elevation (m): upstream 1110 downstream 1100 UTM (Zone/East/North/ method)
 Gradient (%) 1.8 Order 1 Magnitude 1 BGC Zone SBS
 Setting Valley Wall Bars ☒ None ☐ Side ☐ Diagonal ☐ Mid ☐ Span ☐ Braid
 Open water A Wetland ☐ Mass Movement Not Specified Active Floodplain ☐
 Confinement Occasionally Confined Exposed/Eroded Unknown, Not visible Width (m)
 Coupling Decoupled Islands Not Specified Beaver Dam(s) ☐
 Channel Pattern Irregular, Wandering Landuse None/natural LWD jam(s) ☐
 Riparian Vegetation Coniferous Valley Flat Not Specified (C)ontinuous ☐
 (D)iscontinuous ☐

SITE

Gazetted Name Local Name Unnamed
 Survey Date 1998/09/27 Time 12:54 FIELD UTM(Zone/East/North/Method)
 Crew JH/JM Access H MAP UTM (Zone/East/North/Method) GIS
 Site Length (m) 150 Method GE Fish Card ☒ Incomplete ☐ NID Map 93L.100 NID # 50070

CHANNEL

							Average	Method(s)
Channel Widths (m)	0.6	0.8	0.9	0.8	0.5	0.6	0.7	T
Wetted Widths (m)	0.6	0.7	0.8	0.7	0.5	0.5	0.6	T
Resid. Pool Depths (m)	0.07	0.10	0.15	0.07	0.09	0.10	0.10	T

No Vis.Ch. ☐	Dewatered ☐	Gradients (%)	3.0	4.0	3.5	AL ,
Intermittent ☐	Tributaries ☐	Bankfull Depth (m)	0.2	0.1	0.1	T

Stage ☐ Low
☒ Med.
☐ High

COVER -		Total	Abundant	LWD	Few	Dist.	Evenly Distributed
SWD	LWD	Boulder	Cutbank	Deep Pool	Over Veg	Instream Veg	
Trace	Sub-Dominant	Trace	Dominant	Trace	Sub-Dominant	None	

Crown Closure
 1-20%

Instream Vegetation
☒ None ☐ Moss
☐ Algae ☐ Vasc.

LEFT BANK
 Shape Undercut
 Riparian Veg. Coniferous
 Riparian Stage Pole-sapling stage
 Texture ☒ Fines ☐ Gravel ☐ Cobble
☐ Boulder ☐ Rock ☐ Man Made

RIGHT BANK
 Shape Undercut
 Riparian Veg. Coniferous
 Riparian Stage Pole-sapling stage
 Texture ☒ Fines ☐ Gravel ☐ Cobble
☐ Boulder ☐ Rock ☐ Man Made

WATER

Temperature 11 Method T4 pH 8.0 Method P2 EMS #
 Conductivity 40 Method S2 Turbidity ☐ Turbid ☐ Medium ☐ Light ☒ Clear Method GE

MORPHOLOGY

BED Dominant Cobble D95(cm) (only 5%larger) 9
 MATERIAL Subdominant Fines D (cm) (moveable) 16
 Channel Pattern Regular Meanders
 Coupling Partially Coupled
 Confinement Occasionally Confined
 Islands None
 Morphology Code RP
 Beaver Dam(s) ☐ O1
 Eroding Bank(s) ☐ B2
 LWD Jam(s) ☐ D3
 Sediment Wedges ☐ S3
 Bars ☒ None ☐ Mid
☐ Side ☐ Span
☐ Diag. ☐ Braid

Site/Reach Card

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

Reach 3.0

ILP # 10309

Site # 570

ILP Map # 93L.100

Project Name Northwood Pulp and Timber Fish Inventory

Project Code 06-BABL-0103-0606-1998

FEATURES**HABITAT QUALITY**

FSZs

Side Chan ☐Flood/Beaver ☐Trib. ☐Flood Chan ☐Slough ☐**Name****Comments**

Rearing Habitat

Moderate habitat quality

PHOTO DOCUMENTATION**Film****Compact Disc****Lens / Dir. Comments**

Roll 506 Fr 25 CD 278 Im 31 STD U

Roll 506 Fr 26 CD 278 Im 32 STD D

WILDLIFE**COMMENTS****Form****Section****Comments**

SITE

WATER

High Gammarus population

FDIS Fish Form

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

Reach # 3.0

ILP # 10309

ILP Map # 93L.100

Project Name Northwood Pulp and Timber Fish Inventory

Project Code 06-BABL-0103-0606-1998

Lake / Stream	S	SITE / METHOD		Waterbody ID
---------------	---	---------------	--	--------------

Permit 34770-20 Date: 1998/09/27 To: 1998/09/27 Crew: JH/JM Resample ☐

Site	NID MAP	NID	UTM:Zone/East/North/ Mthd	MTD/NO	Temp	Cond	Turbid	Comment
570	93L.100	50070		EF 1	11.0	40	C	

GEAR SETTINGS

Site	MTD/NO	H/P	Date In	Time In	Date Out	Time Out	Comment
570	EF 1	1	1998/09/27	12:54	1998/09/27	13:14	

NET/TRAP SPECIFICATIONS

ELECTROFISHER SPECIFICATIONS

Site	MTD/NO	H/P	Encl	Sec.	Length	Width	Volts	Hz	Pulse	Make	Model
570	EF 1	1	O	245	150.0	1.0	400	60	5	SR	TYPE VII

FISH SUMMARY

Site	MTD/NO	H/P	Species	Stage	Age	Total #	Lgth (Min/Max)	Activity	Comment
570	EF	1	1	NFC		0			

INDIVIDUAL FISH DATA

COMMENTS

Section	Comments
WATERBODY	No fish caught

Site/Reach Card

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

Reach 5.0
Site # 571

ILP # 10312
ILP Map # 93L.100

Project Name Northwood Pulp and Timber Fish Inventory

Project Code 06-BABL-0103-0606-1998

REACH ATTRIBUTES

Sample Type B

Length (km) .58 Elevation (m): upstream 1190 downstream 1180 UTM (Zone/East/North/ method)
Gradient (%) 1.7 Order 1 Magnitude 1 BGC Zone SBS
Setting Valley Wall Bars ☒ None ☐ Side ☐ Diagonal ☐ Mid ☐ Span ☐ Braid
Open water A Wetland ☐ Mass Movement Not Specified Active Floodplain ☐
Confinement Frequently Confined Exposed/Eroded Unknown, Not visible Width (m)
Coupling Decoupled Islands Not Specified Beaver Dam(s) ☐
Channel Pattern Irregular, Wandering Landuse None/natural LWD jam(s) ☐
Riparian Vegetation Mixed C/D Valley Flat Not Specified (C)ontinuous ☐
(D)iscontinuous ☐

SITE

Gazetted Name Local Name Unnamed
Survey Date 1998/09/27 Time 14:36 FIELD UTM(Zone/East/North/Method)
Crew JH/JM Access H MAP UTM (Zone/East/North/Method) GIS
Site Length (m) 200 Method GE Fish Card ☒ Incomplete ☐ NID Map 93L.100 NID # 50071

CHANNEL

							Average	Method(s)
Channel Widths (m)	0.6	0.5	0.4	0.6	0.6	0.6	0.5	T
Wetted Widths (m)	0.6	0.5	0.4	0.6	0.6	0.6	0.5	T
Resid. Pool Depths (m)	0.10	0.11	0.05	0.07	0.10	0.12	0.09	T
No Vis.Ch. ☐							Gradients (%) 5.0 5.0	5.0 C ,
Intermittent ☐							Bankfull Depth (m) 0.2 0.3 0.4	0.3 T

Stage ☒ Low
☐ Med.
☐ High

COVER -		Total	Abundant	LWD	Few	Dist.	Evenly Distributed
SWD	LWD	Boulder	Cutbank	Deep Pool	Over Veg	Instream Veg	
Trace	Sub-Dominant	None	Dominant	Sub-Dominant	Dominant	None	

Crown Closure
1-20%

Instream Vegetation

☒ None ☐ Moss
☐ Algae ☐ Vasc.

LEFT BANK

Shape Undercut
Riparian Veg. Coniferous
Riparian Stage Pole-sapling stage

Texture ☒ Fines ☐ Gravel ☐ Cobble
☐ Boulder ☐ Rock ☐ Man Made

RIGHT BANK

Shape Undercut
Riparian Veg. Coniferous
Riparian Stage Pole-sapling stage

Texture ☒ Fines ☐ Gravel ☐ Cobble
☐ Boulder ☐ Rock ☐ Man Made

WATER

Temperature 7 Method T4 pH 7.8 Method P2 EMS #
Conductivity 60 Method S2 Turbidity ☐ Turbid ☒ Medium ☐ Light ☐ Clear Method GE

MORPHOLOGY

BED Dominant Fines D95(cm) (only 5%larger) 0.1
MATERIAL Subdominant Not Applicable (same as Dominant) D (cm) (moveable) 0.1

Channel Pattern Sinuous
Coupling Partially Coupled
Confinement Occasionally Confined
Islands None

Morphology Code
RP

Beaver Dam(s) ☐ O1
Eroding Bank(s) ☐ B2 ☒ None ☐ Mid
LWD Jam(s) ☐ D3 ☐ Side ☐ Span
Sediment Wedges ☐ S3 ☐ Diag. ☐ Braid

Site/Reach Card

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

Reach 5.0

ILP # 10312

Site # 571

ILP Map # 93L.100

Project Name Northwood Pulp and Timber Fish Inventory

Project Code 06-BABL-0103-0606-1998

FEATURES

Type CV Height 1.0 Method T Length Method

Comments Culvert

Photograph Roll 506 Frame 27 UTM (Zone/East/North/ Method)

HABITAT QUALITY

FSZs

Side Chan ☐Flood/Beaver ☐Tribes ☐Flood Chan ☐Slough ☐**PHOTO DOCUMENTATION**

Film	Compact Disc	Lens / Dir.	Comments
Roll 506 Fr 27 CD 278 Im 33 STD U	culvert		
Roll 506 Fr 28 CD 278 Im 34 STD U			
Roll 506 Fr 29 CD 278 Im 35 STD D			

WILDLIFE**COMMENTS**

FDIS Fish Form

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

Reach # 5.0

ILP # 10312

ILP Map # 93L.100

Project Name Northwood Pulp and Timber Fish Inventory

Project Code 06-BABL-0103-0606-1998

Lake / Stream		S		SITE/METHOD				Waterbody ID			
Permit	34770-20	Date:	1998/09/27	To:	1998/09/27	Crew:	JH/JM	Resample ☐			
Site	NID MAP	NID	50071	UTM:Zone/East/North/ Mthd	MTD/NO	Temp	Cond	Turbid	Comment		
571	93L.100	50071			EF 1	7.0	60	M			
GEAR SETTINGS											
Site	MTD/NO	H/P	Date In	Time In	Date Out	Time Out	Comment				
571	EF 1	1	1998/09/27	14:42	1998/09/27	14:46					
NET/TRAP SPECIFICATIONS											
ELECTROFISHER SPECIFICATIONS											
Site	MTD/NO	H/P	Encl	Sec.	Length	Width	Volts	Hz	Pulse	Make	Model
571	EF 1	1	O	194	200.0	1.0	400	60	5	SR	TYPE VII
FISH SUMMARY											
Site	MTD/NO	H/P	Species	Stage	Age	Total #	Lgth (Min/Max)	Activity	Comment		
571	EF	1	1	NFC		0					
INDIVIDUAL FISH DATA											
COMMENTS											

Site/Reach Card

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

Reach 2.0

ILP # 10312

Site # 572

ILP Map # 93L.100

Project Name Northwood Pulp and Timber Fish Inventory

Project Code 06-BABL-0103-0606-1998

REACH ATTRIBUTES

Sample Type B

Length (km) .72 Elevation (m): upstream 1130 downstream 1080 UTM (Zone/East/North/ method)
 Gradient (%) 6.9 Order 2 Magnitude 2 BGC Zone SBS
 Setting Valley Wall Bars ☒ None ☐ Side ☐ Diagonal ☐ Mid ☐ Span ☐ Braid
 Open water A Wetland ☐ Mass Movement Not Specified Active Floodplain ☐
 Confinement Frequently Confined Exposed/Eroded Unknown, Not visible Width (m)
 Coupling Decoupled Islands Not Specified Beaver Dam(s) ☐
 Channel Pattern Irregular, Wandering Landuse None/natural LWD jam(s) ☐
 Riparian Vegetation Mixed C/D Valley Flat Not Specified (C)ontinuous ☐
 (D)iscontinuous ☐

SITE

Gazetted Name Local Name Unnamed
 Survey Date 1998/09/27 Time 14:54 FIELD UTM(Zone/East/North/Method)
 Crew JH/JM Access H MAP UTM (Zone/East/North/Method) GIS
 Site Length (m) 150 Method GE Fish Card ☒ Incomplete ☐ NID Map 93L.100 NID # 50072

CHANNEL

							Average	Method(s)
Channel Widths (m)	0.9	1.2	0.5	1.2	0.5	1.9	1.0	T
Wetted Widths (m)	0.4	0.7	0.4	0.4	0.4	0.7	0.5	T
Resid. Pool Depths (m)	0.05	0.07	0.10	0.05	0.05	0.10	0.07	T

No Vis.Ch. ☐	Dewatered ☐	Gradients (%)	5.0	5.0	5.0	C ,
Intermittent ☐	Tributaries ☐	Bankfull Depth (m)	0.0	0.1	0.1	T

Stage ☒ Low
☐ Med.
☐ High

COVER -		Total	Abundant	LWD	None	Dist.	Not Applicable
SWD	LWD	Boulder	Cutbank	Deep Pool	Over Veg	Instream Veg	
Trace	Trace	None	Dominant	Sub-Dominant	Dominant	Sub-Dominant	

Crown Closure
 21-40%

Instream Vegetation
☐ None ☐ Moss
☐ Algae ☒ Vasc.

LEFT BANK

Shape Undercut
 Riparian Veg. Coniferous
 Riparian Stage Mature forest

Texture ☒ Fines ☐ Gravel ☐ Cobble
☐ Boulder ☐ Rock ☐ Man Made

RIGHT BANK

Shape Undercut
 Riparian Veg. Coniferous
 Riparian Stage Mature forest

Texture ☒ Fines ☐ Gravel ☐ Cobble
☐ Boulder ☐ Rock ☐ Man Made

WATER

Temperature 10 Method T4 pH 8.8 Method P2 EMS #
 Conductivity 40 Method S2 Turbidity ☐ Turbid ☐ Medium ☐ Light ☒ Clear Method GE

MORPHOLOGY

BED Dominant Gravels D95(cm) (only 5%larger) 10
 MATERIAL Subdominant Cobble D (cm) (moveable) 17

Channel Pattern Regular Meanders
 Coupling Partially Coupled
 Confinement Frequently Confined
 Islands None

Morphology Code
 RP

Beaver Dam(s) ☐ O1
 Eroding Bank(s) ☐ B2 ☒ None ☐ Mid
 LWD Jam(s) ☐ D3 ☐ Side ☐ Span
 Sediment Wedges ☐ S3 ☐ Diag. ☐ Braid

Site/Reach Card

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

Reach 2.0

ILP # 10312

Site # 572

ILP Map # 93L.100

Project Name Northwood Pulp and Timber Fish Inventory

Project Code 06-BABL-0103-0606-1998

FEATURES**HABITAT QUALITY**

FSZs

Side Chan ☐Flood/Beaver ☐Tribes ☐Flood Chan ☐Slough ☐**PHOTO DOCUMENTATION**

Film	Compact Disc	Lens / Dir.	Comments
Roll 506 Fr 30 CD 278 Im 36 STD U			
Roll 506 Fr 31 CD 278 Im 37 STD D			

WILDLIFE**COMMENTS**

FDIS Fish Form

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

Reach # 2.0

ILP # 10312

ILP Map # 93L.100

Project Name Northwood Pulp and Timber Fish Inventory

Project Code 06-BABL-0103-0606-1998

Lake / Stream	S	SITE/METHOD		Waterbody ID
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Permit 34770-20 Date: 1998/09/27 To: 1998/09/27 Crew: JH/JM Resample ☐

Site	NID MAP	NID	UTM:Zone/East/North/ Mthd	MTD/NO	Temp	Cond	Turbid	Comment
572	93L.100	50072		EF 1	10.0	40	C	

GEAR SETTINGS

Site	MTD/NO	H/P	Date In	Time In	Date Out	Time Out	Comment
572	EF 1	1	1998/09/27	14:54	1998/09/27	15:13	

NET/TRAP SPECIFICATIONS

ELECTROFISHER SPECIFICATIONS

Site	MTD/NO	H/P	Encl	Sec.	Length	Width	Volts	Hz	Pulse	Make	Model
572	EF 1	1	O	346	150.0	2.0	400	60	5	SR	TYPE VII

FISH SUMMARY

Site	MTD/NO	H/P	Species	Stage	Age	Total #	Lgth (Min/Max)	Activity	Comment
572	EF	1	1	NFC		0			

INDIVIDUAL FISH DATA

COMMENTS

Section	Comments
WATERBODY	No fish caught

Site/Reach Card

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

Reach 3.0

ILP # 10353

Site # 573

ILP Map # 93L.100

Project Name Northwood Pulp and Timber Fish Inventory

Project Code 06-BABL-0103-0606-1998

REACH ATTRIBUTES

Sample Type R

Length (km) .26 Elevation (m): upstream 1215 downstream 1210 UTM (Zone/East/North/ method)

Gradient (%) 1.9 Order 1 Magnitude 1 BGC Zone SBS

Setting Valley Wall Bars ☒ None ☐ Side ☐ Diagonal ☐ Mid ☐ Span ☐ Braid

Open water A Wetland ☒ Mass Movement Not Specified Active Floodplain ☐

Confinement Unconfined Exposed/Eroded Not Specified Width (m)

Coupling Decoupled Islands Not Specified Beaver Dam(s) ☐

Channel Pattern Regular Meanders Landuse None/natural LWD jam(s) ☐

Riparian Vegetation Shrubs Valley Flat Not Specified (C)ontinuous ☐
(D)iscontinuous ☐

SITE

Gazetted Name Local Name Unnamed

Survey Date 1998/09/27 Time 15:25 FIELD UTM(Zone/East/North/Method)

Crew JH/JM. Access H MAP UTM (Zone/East/North/Method) GIS

Site Length (m) 100 Method GE Fish Card ☐ Incomplete ☐ NID Map 93L.100 NID # 50073

CHANNEL

No Visible Channel ☒

Gradient(s) (%)

Vegetation

Veg. Stage

FEATURE

HABITAT QUALITY

FSZs Side Chan ☐ Flood/Beaver ☐
Tribes ☐ Flood Chan ☐ Slough ☒

PHOTO DOCUMENTATION

Film	Compact Disc	Lens / Dir.	Comments
Roll 506 Fr 32 CD 278	Im 38	STD U	
Roll 506 Fr 33 CD 278	Im 39	STD D	
Roll 506 Fr 34 CD 278	Im 40	STD NS	Very poorly defined "channel" through wetland

COMMENT

Form	Section	Comments
SITE	CHANNEL	No classifiable stream channel - wetland fisheries sensitive zone - possible access during high flows from lake

Site/Reach Card

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

Reach 1.0

ILP # 10309

Site # 574

ILP Map # 93L.100

Project Name Northwood Pulp and Timber Fish Inventory

Project Code 06-BABL-0103-0606-1998

REACH ATTRIBUTES

Sample Type B

Length (km) .50 Elevation (m): upstream 1060 downstream 970 UTM (Zone/East/North/ method)
 Gradient (%) 18.0 Order 2 Magnitude 2 BGC Zone SBS
 Setting Valley Wall Bars ☒ None ☐ Side ☐ Diagonal ☐ Mid ☐ Span ☐ Braid
 Open water A Wetland ☐ Mass Movement Not Specified Active Floodplain ☐
 Confinement Confined Exposed/Eroded Unknown, Not visible Width (m)
 Coupling Coupled Islands Not Specified Beaver Dam(s) ☐
 Channel Pattern Irregular, Wandering Landuse None/natural LWD jam(s) ☐
 Riparian Vegetation Coniferous Valley Flat Not Specified (C)ontinuous ☐
 (D)iscontinuous ☐

SITE

Gazetted Name Local Name Unnamed
 Survey Date 1998/09/27 Time 16:08 FIELD UTM(Zone/East/North/Method)
 Crew JH/JM Access H MAP UTM (Zone/East/North/Method) GIS
 Site Length (m) 400 Method GE Fish Card ☒ Incomplete ☐ NID Map 93L.100 NID # 50074

CHANNEL

							Average	Method(s)
Channel Widths (m)	3.9	2.7	2.5	2.6	2.5	3.7	3.0	T
Wetted Widths (m)	0.4	1.2	1.4	0.8	1.1	1.5	1.1	T
Resid. Pool Depths (m)	0.20	0.15	0.22	0.30	0.20	0.25	0.22	T

No Vis.Ch. ☐	Dewatered ☐	Gradients (%)	15.0	12.0	13.5	C ,
Intermittent ☐	Tributaries ☐	Bankfull Depth (m)	0.4	0.4	0.4	T

Stage ☒ Low
☐ Med.
☐ High

COVER -		Total	Abundant	LWD	Abundant	Dist.	Clumped
SWD	LWD	Boulder	Cutbank	Deep Pool	Over Veg	Instream Veg	
Dominant	Dominant	None	Trace	Trace	Dominant	None	

Crown Closure
 21-40%

Instream Vegetation

☒ None ☐ Moss
☐ Algae ☐ Vasc.

LEFT BANK

Shape Sloping (gradual or shallow sloping)
 Riparian Veg. Coniferous
 Riparian Stage Mature forest

Texture ☒ Fines ☐ Gravel ☐ Cobble
☐ Boulder ☐ Rock ☐ Man Made

RIGHT BANK

Shape Sloping (gradual or shallow sloping)
 Riparian Veg. Coniferous
 Riparian Stage Mature forest

Texture ☒ Fines ☐ Gravel ☐ Cobble
☐ Boulder ☐ Rock ☐ Man Made

WATER

Temperature 8 Method T4 pH 8.0 Method P2 EMS #
 Conductivity 60 Method S2 Turbidity ☐ Turbid ☐ Medium ☐ Light ☒ Clear Method GE

MORPHOLOGY

BED Dominant Gravels D95(cm) (only 5%larger) 10
 MATERIAL Subdominant Not Applicable (same as Dominant) D (cm) (moveable) 17

Channel Pattern Straight
 Coupling Coupled
 Confinement Confined
 Islands None

Morphology Code
 RP

Beaver Dam(s) ☐ O1
 Eroding Bank(s) ☐ B2 ☒ None ☐ Mid
 LWD Jam(s) ☐ D3 ☐ Side ☐ Span
 Sediment Wedges ☐ S3 ☐ Diag. ☐ Braid

Site/Reach Card

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

Reach 1.0

ILP # 10309

Site # 574

ILP Map # 93L.100

Project Name Northwood Pulp and Timber Fish Inventory

Project Code 06-BABL-0103-0606-1998

FEATURES**HABITAT QUALITY**

FSZs

Side Chan ☐Flood/Beaver ☐Tribes. ☐Flood Chan ☐Slough ☐

Name

Comments

Rearing Habitat

Good quality rearing habitat - gradient may present a barrier

PHOTO DOCUMENTATION

Film	Compact Disc				Lens / Dir.		Comments
Roll 506	Fr	35	CD	278	Im	41	STD U
Roll 506	Fr	36	CD	278	Im	42	STD D

WILDLIFE**COMMENTS**

FDIS Fish Form

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

Reach # 1.0

ILP # 10309

ILP Map # 93L.100

Project Name Northwood Pulp and Timber Fish Inventory

Project Code 06-BABL-0103-0606-1998

Lake / Stream	S	SITE/METHOD				Waterbody ID
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Permit 34770-20 Date: 1998/09/27 To: 1998/09/27 Crew: JH/JM Resample ☐

Site	NID MAP	NID	UTM:Zone/East/North/ Mthd	MTD/NO	Temp	Cond	Turbid	Comment
574	93L.100	50074		EF 1	8.0	60	C	

GEAR SETTINGS

Site	MTD/NO	H/P	Date In	Time In	Date Out	Time Out	Comment
574	EF 1	1	1998/09/27	16:15	1998/09/27	16:30	

NET/TRAP SPECIFICATIONS

ELECTROFISHER SPECIFICATIONS

Site	MTD/NO	H/P	Encl	Sec.	Length	Width	Volts	Hz	Pulse	Make	Model
574	EF 1	1	O	306	400.0	1.0	400	60	5	SR	TYPE VII

FISH SUMMARY

Site	MTD/NO	H/P	Species	Stage	Age	Total #	Lgth (Min/Max)	Activity	Comment
574	EF	1	1	NFC		0			

INDIVIDUAL FISH DATA

COMMENTS

Section	Comments
WATERBODY	No fish caught - pools shocked extensively

Site/Reach Card

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

Reach 5.0

ILP # 29305

Site # 575

ILP Map # 93M.029

Project Name Northwood Pulp and Timber Fish Inventory

Project Code 06-BABL-0103-0606-1998

REACH ATTRIBUTES

Sample Type R

Length (km) .12 Elevation (m): upstream 1285 downstream 1280 UTM (Zone/East/North/ method)

Gradient (%) 4.2 Order 1 Magnitude 1 BGC Zone SBS

Setting Valley Wall Bars ☒ None ☐ Side ☐ Diagonal ☐ Mid ☐ Span ☐ BraidOpen water A Wetland ☒ Mass Movement Not Specified Active Floodplain ☐Confinement Unconfined Exposed/Eroded Not Specified Width (m) Coupling Decoupled Islands None Visible Beaver Dam(s) ☐Channel Pattern Regular Meanders Landuse None/natural LWD jam(s) ☐Riparian Vegetation Grass Valley Flat Not Specified (C)ontinuous ☐
(D)iscontinuous ☐**SITE**

Gazetted Name Local Name Unnamed

Survey Date 1998/09/28 Time 10:07 FIELD UTM(Zone/East/North/Method)

Crew JH/JM Access H MAP UTM (Zone/East/North/Method) GIS

Site Length (m) 100 Method GE Fish Card ☐ Incomplete ☐ NID Map 93M.029 NID # 50075**CHANNEL**No Visible Channel ☒

Gradient(s) (%)

Vegetation

Veg. Stage

FEATURE**HABITAT QUALITY**

FSZs

Side Chan ☐Flood/Beaver ☐Tribes ☐Flood Chan ☐Slough ☐**PHOTO DOCUMENTATION**

Film	Compact Disc	Lens / Dir.	Comments
Roll 506 Fr 37 CD 278 Im 43 STD U	No visible channel		
Roll 507 Fr 1 CD 278 Im 44 STD U	No visible channel		
Roll 507 Fr 2 CD 278 Im 45 STD D	No visible channel		

COMMENT

Form	Section	Comments
SITE	MORPHOLOGY	wetland

Site/Reach Card

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

Reach 1.0

ILP # 29301

Site # 576

ILP Map # 93M.029

Project Name Northwood Pulp and Timber Fish Inventory

Project Code 06-BABL-0103-0606-1998

REACH ATTRIBUTES

Sample Type R

Length (km) 1.46 Elevation (m): upstream 820 downstream 730 UTM (Zone/East/North/ method)
 Gradient (%) 6.2 Order 4 Magnitude 16 BGC Zone SBS
 Setting Valley Wall Bars ☒ None ☐ Side ☐ Diagonal ☐ Mid ☐ Span ☐ Braid
 Open water A Wetland ☐ Mass Movement Not Specified Active Floodplain ☐
 Confinement Occasionally Confined Exposed/Eroded Unknown, Not visible Width (m)
 Coupling Decoupled Islands None Visible Beaver Dam(s) ☐
 Channel Pattern Regular Meanders Landuse None/natural LWD jam(s) ☐
 Riparian Vegetation Mixed C/D Valley Flat Not Specified (C)ontinuous ☐
 (D)iscontinuous ☐

SITE

Gazetted Name Local Name Unnamed
 Survey Date 1998/09/28 Time 10:32 FIELD UTM(Zone/East/North/Method)
 Crew JH/JM Access H MAP UTM (Zone/East/North/Method) GIS
 Site Length (m) 350 Method GE Fish Card ☒ Incomplete ☐ NID Map 93M.029 NID # 50076

CHANNEL

							Average	Method(s)
Channel Widths (m)	2.4	3.6	4.6	2.9	3.4	4.1	3.5	T
Wetted Widths (m)	2.0	0.9	2.9	1.4	1.7	2.9	2.0	T
Resid. Pool Depths (m)	0.20	0.40	0.25	0.20	0.35	0.20	0.27	T

No Vis.Ch. ☐	Dewatered ☐	Gradients (%)	5.0	5.0	5.0	C ,
Intermittent ☐	Tributaries ☐	Bankfull Depth (m)	0.4	0.3	0.4	T

Stage ☐ Low
☒ Med.
☐ High

COVER -		Total	Abundant	LWD	Few	Dist.	Evenly Distributed
SWD	LWD	Boulder	Cutbank	Deep Pool	Over Veg	Instream Veg	
None	Sub-Dominant	None	Sub-Dominant	Sub-Dominant	Dominant	None	

Crown Closure
 1-20%

Instream Vegetation
☒ None ☐ Moss
☐ Algae ☐ Vasc.

LEFT BANK

Shape Undercut
 Riparian Veg. Deciduous
 Riparian Stage Pole-sapling stage

Texture ☒ Fines ☐ Gravel ☐ Cobble
☐ Boulder ☐ Rock ☐ Man Made

RIGHT BANK

Shape Undercut
 Riparian Veg. Deciduous
 Riparian Stage Pole-sapling stage

Texture ☒ Fines ☐ Gravel ☐ Cobble
☐ Boulder ☐ Rock ☐ Man Made

WATER

Temperature 6 Method T4 pH 8.9 Method P2 EMS #
 Conductivity 50 Method S2 Turbidity ☐ Turbid ☐ Medium ☐ Light ☒ Clear Method GE

MORPHOLOGY

BED Dominant Cobble D95(cm) (only 5%larger) 12
 MATERIAL Subdominant Gravels D (cm) (moveable) 15

Channel Pattern Regular Meanders
 Coupling Partially Coupled
 Confinement Occasionally Confined
 Islands None

Morphology Code
 RP

Beaver Dam(s) ☐ O1 Bars
 Eroding Bank(s) ☐ B2 ☐ None ☐ Mid
 LWD Jam(s) ☐ D3 ☒ Side ☐ Span
 Sediment Wedges ☐ S3 ☐ Diag. ☐ Braid

Site/Reach Card

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

Reach 1.0

ILP # 29301

Site # 576

ILP Map # 93M.029

Project Name Northwood Pulp and Timber Fish Inventory

Project Code 06-BABL-0103-0606-1998

FEATURES**HABITAT QUALITY**

FSZs

Side Chan ☐Flood/Beaver ☐Tribes ☐Flood Chan ☐Slough ☐**Name****Comments**

Rearing Habitat

Excellent rearing habitat

Spawning Habitat

Excellent spawning habitat

PHOTO DOCUMENTATION

Film	Compact Disc				Lens / Dir.		Comments
Roll 507	Fr	3	CD 278	Im	46	STD U	
Roll 507	Fr	4	CD 278	Im	47	STD D	
Roll 507	Fr	5	CD 278	Im	48	STD NS	fish

WILDLIFE**Group****Observations**

MAM

Moose sign

COMMENTS

FDIS Fish Form

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

Reach # 1.0

ILP # 29301

ILP Map # 93M.029

Project Name Northwood Pulp and Timber Fish Inventory

Project Code 06-BABL-0103-0606-1998

Lake / Stream	S	SITE / METHOD						Waterbody ID	
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Permit 34770-20 Date: 1998/09/28 To: 1998/09/28 Crew: JH/JM Resample ☐

Site	NID MAP	NID	UTM:Zone/East/North/ Mthd	MTD/NO	Temp	Cond	Turbid	Comment
576	93M.029	50076		EF 1	6.0	50	C	

GEAR SETTINGS

Site	MTD/NO	H/P	Date In	Time In	Date Out	Time Out	Comment
576	EF 1	1	1998/09/28	10:40	1998/09/28	11:01	

NET/TRAP SPECIFICATIONS

ELECTROFISHER SPECIFICATIONS

Site	MTD/NO	H/P	Encl	Sec.	Length	Width	Volts	Hz	Pulse	Make	Model
576	EF 1	1	O	250	350.0	3.0	400	60	5	SR	TYPE VII

FISH SUMMARY

Site	MTD/NO	H/P	Species	Stage	Age	Total #	Lgth (Min/Max)	Activity	Comment
576	EF	1	1	RB	J	10	50	80	R
576	EF	1	1	RB	F	8	30	40	R

INDIVIDUAL FISH DATA

Site	MTD/NO	H/P	Species	Length		Weight		Age			Genetic		Photograph		Comment
				(mm)	(g)	Sex	Mat	Str / Smp# /	Age	Vch#	Str/ Smp#	Roll	Fr.		
576	EF	1	1	RB	70		U	U						507 5	
576	EF	1	1	RB	70		U	U							
576	EF	1	1	RB	80		U	U							
576	EF	1	1	RB	80		U	U							
576	EF	1	1	RB	80		U	U							
576	EF	1	1	RB	90		U	U							
576	EF	1	1	RB	90		U	U							
576	EF	1	1	RB	90		U	U							
576	EF	1	1	RB	90		U	U							
576	EF	1	1	RB	90		U	U							
576	EF	1	1	RB	30		U	U							
576	EF	1	1	RB	30		U	U							
576	EF	1	1	RB	30		U	U							
576	EF	1	1	RB	40		U	U							
576	EF	1	1	RB	40		U	U							
576	EF	1	1	RB	40		U	U							
576	EF	1	1	RB	40		U	U							
576	EF	1	1	RB	40		U	U							
576	EF	1	1	RB	40		U	U							

COMMENTS

Site/Reach Card

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

Reach 5.0

ILP # 19338

Site # 577

ILP Map # 93M.019

Project Name Northwood Pulp and Timber Fish Inventory

Project Code 06-BABL-0103-0606-1998

REACH ATTRIBUTES

Sample Type R

Length (km) .93 Elevation (m): upstream 1200 downstream 1000 UTM (Zone/East/North/ method)

Gradient (%) 21.5 Order 1 Magnitude 1 BGC Zone SBS

Setting Valley Wall

Bars ☒ None ☐ Side ☐ Diagonal ☐ Mid ☐ Span ☐ BraidOpen water A Wetland ☐

Mass Movement Medium impact; some debris

Active Floodplain ☐

Confinement Confined

Exposed/Eroded Unknown, Not visible

Width (m)

Coupling Partially Coupled

Islands None Visible

Beaver Dam(s) ☐

Channel Pattern Sinuous

Landuse None/natural

LWD jam(s) ☐

Riparian Vegetation Coniferous

Valley Flat Not Specified

(C)ontinuous ☐(D)iscontinuous ☐**SITE**

Gazetted Name

Local Name Unnamed

Survey Date 1998/09/28

Time 11:34

FIELD UTM(Zone/East/North/Method)

Crew JH/JM

Access H

MAP UTM (Zone/East/North/Method)

GIS

Site Length (m) 100

Method GE

Fish Card ☐ Incomplete ☐

NID Map 93M.029

NID # 50077

CHANNELNo Visible Channel ☒

Gradient(s) (%)

Vegetation

Veg. Stage

FEATURE**HABITAT QUALITY**

FSZs

Side Chan ☐Flood/Beaver ☐Tribes ☐Flood Chan ☐Slough ☐**PHOTO DOCUMENTATION**

Film	Compact Disc	Lens / Dir.	Comments
Roll 507 Fr 6 CD 278 Im 49 STD U	No visible channel		
Roll 507 Fr 7 CD 278 Im 50 STD D	No visible channel		

COMMENT

Site/Reach Card

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

Reach 7.0
Site # 578

ILP # 19344
ILP Map # 93M.019

Project Name Northwood Pulp and Timber Fish Inventory

Project Code 06-BABL-0103-0606-1998

REACH ATTRIBUTES

Sample Type R

Length (km) 1.20 Elevation (m): upstream 1100 downstream 860 UTM (Zone/East/North/ method)
Gradient (%) 20.0 Order 1 Magnitude 1 BGC Zone SBS
Setting Valley Wall Bars ☒ None ☐ Side ☐ Diagonal ☐ Mid ☐ Span ☐ Braid
Open water A Wetland ☐ Mass Movement Not Specified Active Floodplain ☐
Confinement Confined Exposed/Eroded Unknown, Not visible Width (m)
Coupling Partially Coupled Islands None Visible Beaver Dam(s) ☐
Channel Pattern Sinuous Landuse None/natural LWD jam(s) ☐
Riparian Vegetation Mixed C/D Valley Flat Not Specified (C)ontinuous ☐
(D)iscontinuous ☐

SITE

Gazetted Name Local Name Unnamed
Survey Date 1998/09/28 Time 12:40 FIELD UTM(Zone/East/North/Method)
Crew JH/JM Access H MAP UTM (Zone/East/North/Method) GIS
Site Length (m) 200 Method GE Fish Card ☐ Incomplete ☐ NID Map 93M.029 NID # 50078

CHANNEL

	Average	Method(s)
Channel Widths (m) 0.4 0.4 0.4 0.4 0.4 0.3	0.4	T
Wetted Widths (m)	n/a	T
Resid. Pool Depths (m)	n/a	T

No Vis.Ch. ☐	Dewatered ☐	Gradients (%) 15.0 17.0	16.0	C ,
Intermittent ☒	Tributaries ☐	Bankfull Depth (m)	n/a	T

Stage ☒ Low
☐ Med.
☐ High

COVER -		Total	Abundant	LWD	None	Dist.	Not Applicable
SWD	LWD	Boulder	Cutbank	Deep Pool	Over Veg	Instream Veg	
Trace	None	None	None	None	Dominant	None	

Crown Closure
1-20%

Instream Vegetation
☒ None ☐ Moss
☐ Algae ☐ Vasc.

LEFT BANK

Shape Sloping (gradual or shallow sloping)
Riparian Veg. Mixed C/D
Riparian Stage Young forest

Texture ☒ Fines ☐ Gravel ☐ Cobble
☐ Boulder ☐ Rock ☐ Man Made

RIGHT BANK

Shape Sloping (gradual or shallow sloping)
Riparian Veg. Mixed C/D
Riparian Stage Young forest

Texture ☒ Fines ☐ Gravel ☐ Cobble
☐ Boulder ☐ Rock ☐ Man Made

WATER

Temperature Method T4 pH Method P2 EMS #
Conductivity Method S2 Turbidity ☐ Turbid ☐ Medium ☐ Light ☐ Clear Method GE

MORPHOLOGY

BED Dominant Gravels D95(cm) (only 5%larger) 5
MATERIAL Subdominant Not Applicable (same as Dominant) D (cm) (moveable) 7

Channel Pattern Straight
Coupling Coupled
Confinement Occasionally Confined
Islands None

Morphology Code
CP

Beaver Dam(s) ☐ O1
Eroding Bank(s) ☐ B2 ☒ None ☐ Mid
LWD Jam(s) ☐ D3 ☐ Side ☐ Span
Sediment Wedges ☐ S3 ☐ Diag. ☐ Braid

Site/Reach Card

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

Reach 7.0

ILP # 19344

Site # 578

ILP Map # 93M.019

Project Name Northwood Pulp and Timber Fish Inventory

Project Code 06-BABL-0103-0606-1998

FEATURES**HABITAT QUALITY**

FSZs

Side Chan ☐Flood/Beaver ☐Tribes. ☐Flood Chan ☐Slough ☐**Name****Comments**

Rearing Habitat

Gradient may present a barrier to fish access

PHOTO DOCUMENTATION

Film	Compact Disc				Lens / Dir.		Comments
Roll 507	Fr	8	CD 278	Im	51	STD	U
Roll 507	Fr	9	CD 278	Im	52	STD	D

WILDLIFE**COMMENTS**

Site/Reach Card

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

Reach 9.0

ILP # 19319

Site # 579

ILP Map # 93M.019

Project Name Northwood Pulp and Timber Fish Inventory

Project Code 06-BABL-0103-0606-1998

REACH ATTRIBUTES

Sample Type R

Length (km) .72 Elevation (m): upstream 1340 downstream 1200 UTM (Zone/East/North/ method)
 Gradient (%) 20.0 Order 1 Magnitude 1 BGC Zone SBS
 Setting Valley Wall Bars ☒ None ☐ Side ☐ Diagonal ☐ Mid ☐ Span ☐ Braid
 Open water A Wetland ☐ Mass Movement Not Specified Active Floodplain ☐
 Confinement Frequently Confined Exposed/Eroded Unknown, Not visible Width (m)
 Coupling Not Specified Islands NONE Beaver Dam(s) ☐
 Channel Pattern Irregular, Wandering Landuse None/natural LWD jam(s) ☐
 Riparian Vegetation Coniferous Valley Flat Not Specified (C)ontinuous ☐
 (D)iscontinuous ☐

SITE

Gazetted Name Local Name Unnamed
 Survey Date 1998/09/28 Time 13:10 FIELD UTM(Zone/East/North/Method)
 Crew JH/JM Access H MAP UTM (Zone/East/North/Method) GIS
 Site Length (m) 100 Method GE Fish Card ☐ Incomplete ☐ NID Map 93M.020 NID # 50079

CHANNEL

	Average	Method(s)
Channel Widths (m) 0.3 0.4 0.4 0.3 0.4 0.3	0.4	T
Wetted Widths (m)	n/a	T
Resid. Pool Depths (m)	n/a	T

No Vis.Ch. ☐	Dewatered ☐	Gradients (%) 10.0 16.0	13.0	C ,
Intermittent ☒	Tributaries ☐	Bankfull Depth (m)	n/a	T

Stage ☒ Low

☐ Med.

☐ High

COVER -		Total	Abundant	LWD	Few	Dist.	Evenly Distributed
SWD	LWD	Boulder	Cutbank	Deep Pool	Over Veg	Instream Veg	
Trace	Sub-Dominant	None	Dominant	None	Dominant	None	

Crown Closure
21-40%

Instream Vegetation

☒ None ☐ Moss

☐ Algae ☐ Vasc.

LEFT BANK

Shape Undercut

Riparian Veg. Coniferous

Riparian Stage Mature forest

Texture ☒ Fines ☐ Gravel ☐ Cobble
☐ Boulder ☐ Rock ☐ Man Made

RIGHT BANK

Shape Undercut

Riparian Veg. Coniferous

Riparian Stage Mature forest

Texture ☒ Fines ☐ Gravel ☐ Cobble
☐ Boulder ☐ Rock ☐ Man Made

WATER

Temperature Method T4 pH Method P2 EMS #
 Conductivity Method S2 Turbidity ☐ Turbid ☐ Medium ☐ Light ☐ Clear Method GE

MORPHOLOGY

BED Dominant Fines D95(cm) (only 5%larger) 0.1
 MATERIAL Subdominant Not Applicable (same as Dominant) D (cm) (moveable) 0.1

Channel Pattern Irregular, Wandering

Coupling Partially Coupled

Confinement Occasionally Confined

Islands None

Morphology Code
RP

Beaver Dam(s) ☐ O1
 Eroding Bank(s) ☐ B2 ☒ None ☐ Mid
 LWD Jam(s) ☐ D3 ☐ Side ☐ Span
 Sediment Wedges ☐ S3 ☐ Diag. ☐ Braid

Site/Reach Card

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

Reach 9.0

ILP # 19319

Site # 579

ILP Map # 93M.019

Project Name Northwood Pulp and Timber Fish Inventory

Project Code 06-BABL-0103-0606-1998

FEATURES**HABITAT QUALITY**

FSZs

Side Chan ☐Flood/Beaver ☐Tribes ☐Flood Chan ☐Slough ☐**PHOTO DOCUMENTATION**

Film	Compact Disc	Lens / Dir.	Comments
Roll 507 Fr 10 CD 278 Im 53 STD U			
Roll 507 Fr 11 CD 278 Im 54 STD D			

WILDLIFE**COMMENTS**

Site/Reach Card

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

Reach 8.0

ILP # 19319

Site # 580

ILP Map # 93M.019

Project Name Northwood Pulp and Timber Fish Inventory

Project Code 06-BABL-0103-0606-1998

REACH ATTRIBUTES

Sample Type B

Length (km) 1.14 Elevation (m): upstream 1200 downstream 1020 UTM (Zone/East/North/ method)
 Gradient (%) 15.8 Order 2 Magnitude 2 BGC Zone SBS
 Setting Not Specified Bars ☒ None ☐ Side ☐ Diagonal ☐ Mid ☐ Span ☐ Braid
 Open water A Wetland ☐ Mass Movement Not Specified Active Floodplain ☐
 Confinement Frequently Confined Exposed/Eroded Not Specified Width (m)
 Coupling Partially Coupled Islands NONE Beaver Dam(s) ☐
 Channel Pattern Irregular, Wandering Landuse Not Specified LWD jam(s) ☐
 Riparian Vegetation Not Specified Valley Flat Not Specified (C)ontinuous ☐
 (D)iscontinuous ☐

SITE

Gazetted Name Local Name Unnamed
 Survey Date 1998/09/28 Time 13:20 FIELD UTM(Zone/East/North/Method)
 Crew JH/JM Access H MAP UTM (Zone/East/North/Method) GIS
 Site Length (m) 150 Method GE Fish Card ☒ Incomplete ☐ NID Map 93M.020 NID # 50080

CHANNEL

							Average	Method(s)
Channel Widths (m)	0.6	0.7	1.9	1.4	1.1	1.0	1.1	T
Wetted Widths (m)	0.4	0.7	0.3	1.4	0.3	0.5	0.6	T
Resid. Pool Depths (m)	0.10	0.40	0.25	0.20	0.10	0.10	0.19	T

No Vis.Ch. ☐	Dewatered ☐	Gradients (%)	7.0	10.0	8.5	C ,	
Intermittent ☐	Tributaries ☐	Bankfull Depth (m)	0.4	0.4	0.5	0.4	T

Stage ☒ Low
☐ Med.
☐ High

COVER -		Total	Abundant	LWD	None	Dist.	Not Applicable
SWD	LWD	Boulder	Cutbank	Deep Pool	Over Veg	Instream Veg	
Trace	None	None	Dominant	Sub-Dominant	Dominant	None	

Crown Closure
 21-40%

Instream Vegetation

☒ None ☐ Moss
☐ Algae ☐ Vasc.

LEFT BANK

Shape Undercut
 Riparian Veg. Coniferous
 Riparian Stage Mature forest

Texture ☒ Fines ☐ Gravel ☐ Cobble
☐ Boulder ☐ Rock ☐ Man Made

RIGHT BANK

Shape Undercut
 Riparian Veg. Coniferous
 Riparian Stage Mature forest

Texture ☒ Fines ☐ Gravel ☐ Cobble
☐ Boulder ☐ Rock ☐ Man Made

WATER

Temperature 7 Method T4 pH 7.6 Method P2 EMS #
 Conductivity 60 Method S2 Turbidity ☐ Turbid ☐ Medium ☐ Light ☒ Clear Method GE

MORPHOLOGY

BED Dominant Gravels D95(cm) (only 5%larger) 4
 MATERIAL Subdominant Not Applicable (same as Dominant) D (cm) (moveable) 8
 Channel Pattern Sinuous
 Coupling Partially Coupled
 Confinement Occasionally Confined
 Islands None
 Morphology Code RP
 Beaver Dam(s) ☐ O1 ☒ None ☐ Mid
 Eroding Bank(s) ☐ B2 ☐ Side ☐ Span
 LWD Jam(s) ☐ D3 ☐ Diag. ☐ Braid
 Sediment Wedges ☐ S3

Site/Reach Card

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

Reach 8.0

ILP # 19319

Site # 580

ILP Map # 93M.019

Project Name Northwood Pulp and Timber Fish Inventory

Project Code 06-BABL-0103-0606-1998

FEATURES**HABITAT QUALITY**

FSZs

Side Chan ☐Flood/Beaver ☐Tribes ☐Flood Chan ☐Slough ☐

Name	Comments
Rearing Habitat	Moderate rearing habitat
Spawning Habitat	Good spawning habitat

PHOTO DOCUMENTATION

Film	Compact Disc	Lens / Dir.	Comments
Roll 507 Fr 12 CD 278 Im 55 STD U			
Roll 507 Fr 13 CD 278 Im 56 STD D			

WILDLIFE**COMMENTS**

Form	Section	Comments
SITE	CHANNEL	Electroshockable water difficult to find. Pools shocked 145 seconds. May provide spawning for fish from wetland. Overwintering and rearing habitat hard to find.

FDIS Fish Form

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

Reach # 8.0

ILP # 19319

ILP Map # 93M.019

Project Name Northwood Pulp and Timber Fish Inventory

Project Code 06-BABL-0103-0606-1998

Lake / Stream	S	SITE / METHOD		Waterbody ID	
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Permit 34770-20 Date: 1998/09/28 To: 1998/09/28 Crew: JH/JM Resample ☐

Site	NID MAP	NID	UTM:Zone/East/North/ Mthd	MTD/NO	Temp	Cond	Turbid	Comment
580	93M.020	50080		EF 1	7.0	60	C	

GEAR SETTINGS

Site	MTD/NO	H/P	Date In	Time In	Date Out	Time Out	Comment
580	EF 1	1	1998/09/28	13:15	1998/09/28	13:25	

NET/TRAP SPECIFICATIONS

ELECTROFISHER SPECIFICATIONS

Site	MTD/NO	H/P	Encl	Sec.	Length	Width	Volts	Hz	Pulse	Make	Model
580	EF 1	1	O	145	150.0	12.0	400	60	5	SR	TYPE VII

FISH SUMMARY

Site	MTD/NO	H/P	Species	Stage	Age	Total #	Lgth (Min/Max)	Activity	Comment
580	EF	1	1	NFC		0			

INDIVIDUAL FISH DATA

COMMENTS

Site/Reach Card

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

Reach 7.0

ILP # 9318

Site # 581

ILP Map # 93M.009

Project Name Northwood Pulp and Timber Fish Inventory

Project Code 06-BABL-0103-0606-1998

REACH ATTRIBUTES

Sample Type R

Length (km) .62 Elevation (m): upstream 1130 downstream 1100 UTM (Zone/East/North/ method)
 Gradient (%) 4.8 Order 1 Magnitude 1 BGC Zone SBS
 Setting Valley Wall Bars ☒ None ☐ Side ☐ Diagonal ☐ Mid ☐ Span ☐ Braid
 Open water A Wetland ☐ Mass Movement Low or no impact to channel; Active Floodplain ☐
 Confinement Occasionally Confined Exposed/Eroded Unknown, Not visible Width (m)
 Coupling Decoupled Islands NONE Beaver Dam(s) ☐
 Channel Pattern Sinuous Landuse None/natural LWD jam(s) ☐
 Riparian Vegetation Coniferous Valley Flat Not Specified (C)ontinuous ☐
 (D)iscontinuous ☐

SITE

Gazetted Name Local Name Unnamed
 Survey Date 1998/09/28 Time 14:20 FIELD UTM(Zone/East/North/Method)
 Crew JH/JM Access H MAP UTM (Zone/East/North/Method) GIS
 Site Length (m) 100 Method GE Fish Card ☒ Incomplete ☐ NID Map 93M.020 NID # 50081

CHANNEL

							Average	Method(s)
Channel Widths (m)	1.0	1.0	0.9	0.8	0.9	0.8	0.9	T
Wetted Widths (m)	0.9	0.9	0.8	0.8	0.9	0.7	0.8	T
Resid. Pool Depths (m)	0.20	0.05	0.05	0.05	0.10	0.10	0.09	T

No Vis.Ch. ☐	Dewatered ☐	Gradients (%)	5.0	7.0	6.0	C ,	
Intermittent ☐	Tributaries ☐	Bankfull Depth (m)	0.2	0.4	0.4	0.3	T

Stage ☐ Low
☒ Med.
☐ High

COVER -		Total	Trace	LWD	None	Dist.	Not Applicable
SWD	LWD	Boulder	Cutbank	Deep Pool	Over Veg	Instream Veg	
None	None	None	Sub-Dominant	Sub-Dominant	None	None	

Crown Closure
 0%

Instream Vegetation
☒ None ☐ Moss
☐ Algae ☐ Vasc.

LEFT BANK

Shape Undercut
 Riparian Veg. None
 Riparian Stage

Texture ☒ Fines ☐ Gravel ☐ Cobble
☐ Boulder ☐ Rock ☐ Man Made

RIGHT BANK

Shape Undercut
 Riparian Veg. None
 Riparian Stage

Texture ☒ Fines ☐ Gravel ☐ Cobble
☐ Boulder ☐ Rock ☐ Man Made

WATER

Temperature 6 Method T4 pH 7.6 Method P2 EMS #
 Conductivity 80 Method S2 Turbidity ☐ Turbid ☐ Medium ☐ Light ☒ Clear Method GE

MORPHOLOGY

BED Dominant Gravels D95(cm) (only 5%larger) 10
 MATERIAL Subdominant Cobble D (cm) (moveable) 12
 Channel Pattern Straight
 Coupling Partially Coupled
 Confinement Frequently Confined
 Islands None
 Morphology Code RP
 Beaver Dam(s) ☐ O1 ☒ None ☐ Mid
 Eroding Bank(s) ☐ B2 ☐ Side ☐ Span
 LWD Jam(s) ☐ D3 ☐ Diag. ☐ Braid
 Sediment Wedges ☐ S3

Site/Reach Card

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

Reach 7.0

ILP # 9318

Site # 581

ILP Map # 93M.009

Project Name Northwood Pulp and Timber Fish Inventory

Project Code 06-BABL-0103-0606-1998

FEATURES**HABITAT QUALITY**

FSZs

Side Chan ☐Flood/Beaver ☐Tribes ☐Flood Chan ☐Slough ☐**Name****Comments**

Rearing Habitat

Poor rearing habitat - stream logged to bank on both sides and replanted

PHOTO DOCUMENTATION

Film	Compact Disc				Lens / Dir.		Comments
Roll 507	Fr	14	CD	278	Im	57	STD U
Roll 507	Fr	15	CD	278	Im	58	STD D
Roll 507	Fr	16	CD	278	Im	59	STD U

WILDLIFE**COMMENTS**

FDIS Fish Form

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

Reach # 7.0

ILP # 9318

ILP Map # 93M.009

Project Name Northwood Pulp and Timber Fish Inventory

Project Code 06-BABL-0103-0606-1998

Lake / Stream S SITE/METHOD Waterbody ID

Permit 34770-20 Date: 1998/09/28 To: 1998/09/28 Crew: JH/JM Resample ☐

Site	NID MAP	NID	UTM:Zone/East/North/ Mthd	MTD/NO	Temp	Cond	Turbid	Comment
581	93M.020	50081		EF 1	6.0	80	C	

GEAR SETTINGS

Site	MTD/NO	H/P	Date In	Time In	Date Out	Time Out	Comment
581	EF 1	1	1998/09/28	14:15	1998/09/28	14:29	

NET/TRAP SPECIFICATIONS

ELECTROFISHER SPECIFICATIONS

Site	MTD/NO	H/P	Encl	Sec.	Length	Width	Volts	Hz	Pulse	Make	Model
581	EF 1	1	O	218	100.0	1.0	400	60	5	SR	TYPE VII

FISH SUMMARY

Site	MTD/NO	H/P	Species	Stage	Age	Total #	Lgth (Min/Max)	Activity	Comment
581	EF	1 1	NFC			0			

INDIVIDUAL FISH DATA

COMMENTS

Section

WATERBODY

Comments

No fish caught

Site/Reach Card

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

Reach 1.0

ILP # 11503

Site # 582

ILP Map # 93M.010

Project Name Northwood Pulp and Timber Fish Inventory

Project Code 06-BABL-0103-0606-1998

REACH ATTRIBUTES

Sample Type R

Length (km) .60 Elevation (m): upstream 1150 downstream 1115 UTM (Zone/East/North/ method)
 Gradient (%) 5.8 Order 1 Magnitude 1 BGC Zone SBS
 Setting Valley Wall Bars ☒ None ☐ Side ☐ Diagonal ☐ Mid ☐ Span ☐ Braid
 Open water A Wetland ☐ Mass Movement Low or no impact to channel; Active Floodplain ☐
 Confinement Occasionally Confined Exposed/Eroded Unknown, Not visible Width (m)
 Coupling Decoupled Islands NONE Beaver Dam(s) ☐
 Channel Pattern Sinuous Landuse None/natural LWD jam(s) ☐
 Riparian Vegetation Coniferous Valley Flat Not Specified (C)ontinuous ☐
 (D)iscontinuous ☐

SITE

Gazetted Name Local Name Unnamed
 Survey Date 1998/09/28 Time 14:58 FIELD UTM(Zone/East/North/Method)
 Crew JH/JM Access H MAP UTM (Zone/East/North/Method) GIS
 Site Length (m) 100 Method GE Fish Card ☐ Incomplete ☐ NID Map 93M.010 NID # 50082

CHANNEL

							Average	Method(s)
Channel Widths (m)	0.5	0.5	0.6	0.6	0.3	0.4	0.5	T
Wetted Widths (m)	0.5	0.5	0.6	0.6	0.3	0.4	0.5	T
Resid. Pool Depths (m)	0.20	0.15	0.20	0.15	0.15	0.10	0.16	T

No Vis.Ch. ☐	Dewatered ☐	Gradients (%)	5.0	3.0	4.0	C ,
Intermittent ☐	Tributaries ☐	Bankfull Depth (m)	0.3	0.2	0.2	T

Stage ☒ Low
☐ Med.
☐ High

COVER -		Total	Abundant	LWD	Few	Dist.	Evenly Distributed
SWD	LWD	Boulder	Cutbank	Deep Pool	Over Veg	Instream Veg	
Trace	Sub-Dominant	None	Dominant	Sub-Dominant	Dominant	None	

Crown Closure
 21-40%

Instream Vegetation

☒ None ☐ Moss
☐ Algae ☐ Vasc.

LEFT BANK

Shape Undercut
 Riparian Veg. Coniferous
 Riparian Stage Mature forest

Texture ☒ Fines ☐ Gravel ☐ Cobble
☐ Boulder ☐ Rock ☐ Man Made

RIGHT BANK

Shape Undercut
 Riparian Veg. Coniferous
 Riparian Stage Mature forest

Texture ☒ Fines ☐ Gravel ☐ Cobble
☐ Boulder ☐ Rock ☐ Man Made

WATER

Temperature 7 Method T4 pH 7.5 Method P2 EMS #
 Conductivity 60 Method S2 Turbidity ☐ Turbid ☐ Medium ☐ Light ☒ Clear Method GE

MORPHOLOGY

BED Dominant Gravels D95(cm) (only 5%larger) 3
 MATERIAL Subdominant Not Applicable (same as Dominant) D (cm) (moveable) 3

Channel Pattern Irregular, Wandering

Coupling Partially Coupled

Confinement Occasionally Confined

Islands None

Morphology Code
 RP

Beaver Dam(s) ☐ O1 Bars
 Eroding Bank(s) ☐ B2 ☒ None ☐ Mid
 LWD Jam(s) ☐ D3 ☐ Side ☐ Span
 Sediment Wedges ☐ S3 ☐ Diag. ☐ Braid

Site/Reach Card

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

Reach 1.0

ILP # 11503

Site # 582

ILP Map # 93M.010

Project Name Northwood Pulp and Timber Fish Inventory

Project Code 06-BABL-0103-0606-1998

FEATURES**HABITAT QUALITY**

FSZs

Side Chan ☐Flood/Beaver ☐Tribes. ☐Flood Chan ☐Slough ☐**PHOTO DOCUMENTATION**

Film	Compact Disc	Lens / Dir.	Comments
Roll 507 Fr 17 CD 278 Im 60 STD U			
Roll 507 Fr 18 CD 278 Im 61 STD D			

WILDLIFE**COMMENTS**

Form	Section	Comments
SITE	WATER	Pools deep enough to electroshock not found

Site/Reach Card

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

Reach 6.0

ILP # 81777

Site # 583

ILP Map # 93K.081

Project Name Northwood Pulp and Timber Fish Inventory

Project Code 06-BABL-0103-0606-1998

REACH ATTRIBUTES

Sample Type B

Length (km) 1.00 Elevation (m): upstream 1175 downstream 1133 UTM (Zone/East/North/ method)
Gradient (%) 4.2 Order 2 Magnitude 2 BGC Zone SBS
Setting Valley Wall Bars ☒ None ☐ Side ☐ Diagonal ☐ Mid ☐ Span ☐ Braid
Open water A Wetland ☐ Mass Movement Low or no impact to channel; Active Floodplain ☐
Confinement Unconfined Exposed/Eroded Not Specified Width (m)
Coupling Decoupled Islands Not Specified Beaver Dam(s) ☐
Channel Pattern Regular Meanders Landuse None/natural LWD jam(s) ☐
Riparian Vegetation Coniferous Valley Flat Not Specified (C)ontinuous ☐
(D)iscontinuous ☐

SITE

Gazetted Name Local Name Unnamed
Survey Date 1998/09/28 Time 15:26 FIELD UTM(Zone/East/North/Method)
Crew JH/JM Access H MAP UTM (Zone/East/North/Method) GIS
Site Length (m) 200 Method GE Fish Card ☒ Incomplete ☐ NID Map 93K.091 NID # 50083

CHANNEL

							Average	Method(s)
Channel Widths (m)	1.2	1.0	1.4	1.7	1.9	1.2	1.4	T
Wetted Widths (m)	0.7	0.9	0.3	0.8	1.7	0.4	0.8	T
Resid. Pool Depths (m)	0.25	0.20	0.20	0.25	0.10	0.15	0.19	T

No Vis.Ch. ☐	Dewatered ☐	Gradients (%)	5.0	6.0	5.5	C ,
Intermittent ☐	Tributaries ☐	Bankfull Depth (m)	0.3	0.4	0.4	T

Stage ☒ Low
☐ Med.
☐ High

COVER -		Total	Abundant	LWD	Few	Dist.	Evenly Distributed
SWD	LWD	Boulder	Cutbank	Deep Pool	Over Veg	Instream Veg	
Trace	Sub-Dominant	None	Dominant	Trace	Dominant	None	

Crown Closure
21-40%

LEFT BANK

Shape Undercut
Riparian Veg. Coniferous
Riparian Stage Young forest

RIGHT BANK

Shape Undercut
Riparian Veg. Coniferous
Riparian Stage Young forest

Instream Vegetation

☒ None ☐ Moss
☐ Algae ☐ Vasc.

Texture ☒ Fines ☐ Gravel ☐ Cobble
☐ Boulder ☐ Rock ☐ Man Made

Texture ☒ Fines ☐ Gravel ☐ Cobble
☐ Boulder ☐ Rock ☐ Man Made

WATER

Temperature 6 Method T4 pH 7.8 Method P2 EMS #
Conductivity 60 Method S2 Turbidity ☐ Turbid ☐ Medium ☐ Light ☒ Clear Method GE

MORPHOLOGY

BED Dominant Gravels D95(cm) (only 5% larger) 4
MATERIAL Subdominant Not Applicable (same as Dominant) D (cm) (moveable) 8
Channel Pattern Regular Meanders
Coupling Partially Coupled
Confinement Occasionally Confined
Islands None

Morphology Code
RP

Beaver Dam(s) ☐ O1
Eroding Bank(s) ☐ B2
LWD Jam(s) ☐ D3
Sediment Wedges ☐ S3

Bars
☒ None ☐ Mid
☐ Side ☐ Span
☐ Diag. ☐ Braid

Site/Reach Card

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

Reach 6.0

ILP # 81777

Site # 583

ILP Map # 93K.081

Project Name Northwood Pulp and Timber Fish Inventory

Project Code 06-BABL-0103-0606-1998

FEATURES**HABITAT QUALITY**

FSZs

Side Chan ☐Flood/Beaver ☐Tribes ☐Flood Chan ☐Slough ☐**PHOTO DOCUMENTATION**

Film	Compact Disc	Lens / Dir.	Comments
Roll 507 Fr 19 CD 278 Im 62 STD U			
Roll 507 Fr 20 CD 278 Im 63 STD D			

WILDLIFE**COMMENTS**

FDIS Fish Form

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

Reach # 6.0

ILP # 81777

ILP Map # 93K.081

Project Name Northwood Pulp and Timber Fish Inventory

Project Code 06-BABL-0103-0606-1998

Lake / Stream	S	SITE/METHOD	Waterbody ID
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Permit 34770-20 Date: 1998/09/28 To: 1998/09/28 Crew: JH/JM Resample ☐

Site	NID MAP	NID	UTM:Zone/East/North/ Mthd	MTD/NO	Temp	Cond	Turbid	Comment
583	93K.091	50083		EF 1	6.0	60	C	

GEAR SETTINGS

Site	MTD/NO	H/P	Date In	Time In	Date Out	Time Out	Comment
583	EF 1	1	1998/09/28	15:30	1998/09/28	15:40	

NET/TRAP SPECIFICATIONS

ELECTROFISHER SPECIFICATIONS

Site	MTD/NO	H/P	Encl	Sec.	Length	Width	Volts	Hz	Pulse	Make	Model
583	EF 1	1	O	418	200.0	1.0	400	60	5	SR	TYPE VII

FISH SUMMARY

Site	MTD/NO	H/P	Species	Stage	Age	Total #	Lgth (Min/Max)	Activity	Comment
583	EF	1	1	NFC		0			

INDIVIDUAL FISH DATA

COMMENTS

Section	Comments
WATERBODY	No fish caught

Site/Reach Card

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

Reach 3.0

ILP # 1359

Site # 585

ILP Map # 93K.081

Project Name Northwood Pulp and Timber Fish Inventory

Project Code 06-BABL-0103-0606-1998

REACH ATTRIBUTES

Sample Type B

Length (km) .55 Elevation (m): upstream 882 downstream 778 UTM (Zone/East/North/ method)
 Gradient (%) 18.9 Order 1 Magnitude 1 BGC Zone SBS
 Setting Valley Wall Bars ☒ None ☐ Side ☐ Diagonal ☐ Mid ☐ Span ☐ Braid
 Open water A Wetland ☐ Mass Movement Low or no impact to channel; Active Floodplain ☐
 Confinement Occasionally Confined Exposed/Eroded Not Specified Width (m)
 Coupling Decoupled Islands Not Specified Beaver Dam(s) ☐
 Channel Pattern Sinuous Landuse None/natural LWD jam(s) ☐
 Riparian Vegetation Shrubs Valley Flat Not Specified (C)ontinuous ☐
 (D)iscontinuous ☐

SITE

Gazetted Name Local Name Unnamed
 Survey Date 1998/09/28 Time 14:05 FIELD UTM(Zone/East/North/Method)
 Crew JH/JM Access H MAP UTM (Zone/East/North/Method) GIS
 Site Length (m) 100 Method GE Fish Card ☐ Incomplete ☐ NID Map 93K.081 NID # 50085

CHANNEL

	Average	Method(s)
Channel Widths (m) 0.9 0.8 0.9 0.8 0.8 0.8	0.8	T
Wetted Widths (m)	n/a	T
Resid. Pool Depths (m)	n/a	T

No Vis.Ch. ☐ Dewatered ☐
 Intermittent ☒ Tributaries ☐
 Gradients (%) 5.0 5.0 5.0 C ,
 Bankfull Depth (m) n/a T

Stage ☒ Low ☐ Med. ☐ High
 COVER - Total Trace LWD None Dist.
 SWD LWD Boulder Cutbank Deep Pool Over Veg Instream Veg
 Trace None None Sub-Dominant None None None
 Crown Closure 0%
 LEFT BANK
 Shape Undercut
 Riparian Veg. Shrubs
 Riparian Stage Non-vegetated or initial stage f
 Texture ☒ Fines ☐ Gravel ☐ Cobble
☐ Boulder ☐ Rock ☐ Man Made
 RIGHT BANK
 Shape Undercut
 Riparian Veg. Shrubs
 Riparian Stage Non-vegetated or initial stage f
 Texture ☒ Fines ☐ Gravel ☐ Cobble
☐ Boulder ☐ Rock ☐ Man Made
 Instream Vegetation ☒ None ☐ Moss ☐ Vasc.

WATER

Temperature Method T4 pH Method P2 EMS #
 Conductivity Method S2 Turbidity ☐ Turbid ☐ Medium ☐ Light ☐ Clear Method GE

MORPHOLOGY

BED Dominant Fines D95(cm) (only 5%larger) 0.1
 MATERIAL Subdominant Not Applicable (same as Dominant) D (cm) (moveable) 0.1
 Channel Pattern Sinuous
 Coupling Partially Coupled
 Confinement Occasionally Confined
 Islands None
 Morphology Code RP
 Beaver Dam(s) ☐ O1 ☒ None ☐ Mid
 Eroding Bank(s) ☐ B2 ☐ Side ☐ Span
 LWD Jam(s) ☐ D3 ☐ Diag. ☐ Braid
 Sediment Wedges ☐ S3

Site/Reach Card

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

Reach 3.0

ILP # 1359

Site # 585

ILP Map # 93K.081

Project Name Northwood Pulp and Timber Fish Inventory

Project Code 06-BABL-0103-0606-1998

FEATURES

HABITAT QUALITY

FSZs

Side Chan ☐

Flood/Beaver ☐

Tribs. ☐

Flood Chan ☐

Slough ☐

PHOTO DOCUMENTATION

Film Compact Disc Lens / Dir. Comments

Roll 507 Fr 21 CD 278 Im 64 STD U

Roll 507 Fr 22 CD 278 Im 65 STD D

WILDLIFE

COMMENTS

Form	Section	Comments
SITE	COVER	Stream logged to banks on both sides

Site/Reach Card

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

Reach 11.0

ILP # 71522

Site # 601

ILP Map # 93K.071

Project Name Northwood Pulp and Timber Fish Inventory

Project Code 06-BABL-0103-0606-1998

REACH ATTRIBUTES

Sample Type ☒ B

Length (km) .65 Elevation (m): upstream 1003 downstream 930 UTM (Zone/East/North/ method)

Gradient (%) 11.2 Order 2 Magnitude 2 BGC Zone SBS

Setting Valley Wall Bars ☒ None ☐ Side ☐ Diagonal ☐ Mid ☐ Span ☐ Braid

Open water A Wetland ☐ Mass Movement Not Specified Active Floodplain ☐

Confinement Unconfined Exposed/Eroded Unknown, Not visible Width (m)

Coupling Partially Coupled Islands Not Specified Beaver Dam(s) ☐

Channel Pattern Irregular, Wandering Landuse None/natural LWD jam(s) ☐

Riparian Vegetation Mixed C/D Valley Flat Not Specified (C)ontinuous ☐
(D)iscontinuous ☐

SITE

Gazetted Name Local Name Unnamed

Survey Date 1998/09/18 Time 12:50 FIELD UTM(Zone/East/North/Method)

Crew JH/JM Access H MAP UTM (Zone/East/North/Method) GIS

Site Length (m) 100 Method GE Fish Card ☐ Incomplete ☐ NID Map 93K.081 NID # 60021

CHANNEL

No Visible Channel ☒

Gradient(s) (%)

Vegetation

Veg. Stage

FEATURE

HABITAT QUALITY

FSZs Side Chan ☐ Flood/Beaver ☐
Tribes ☐ Flood Chan ☐ Slough ☐

PHOTO DOCUMENTATION

Film	Compact Disc	Lens / Dir.	Comments
Roll 502 Fr 33 CD 277 Im 46 STD U	No visible channel		
Roll 502 Fr 34 CD 277 Im 47 STD D	No visible channel		

COMMENT

Form	Section	Comments
SITE	CHANNEL	Vegetated gully

Site/Reach Card

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

Reach 1.0

ILP # 11363

Site # 620

ILP Map # 93M.010

Project Name Northwood Pulp and Timber Fish Inventory

Project Code 06-BABL-0103-0606-1998

REACH ATTRIBUTES

Sample Type R

Length (km) 1.08 Elevation (m): upstream 978 downstream 938 UTM (Zone/East/North/ method)
 Gradient (%) 3.7 Order 2 Magnitude 4 BGC Zone SBS
 Setting Valley Wall Bars ☒ None ☐ Side ☐ Diagonal ☐ Mid ☐ Span ☐ Braid
 Open water A Wetland ☐ Mass Movement Not Specified Active Floodplain ☐
 Confinement Unconfined Exposed/Eroded Not Specified Width (m)
 Coupling Decoupled Islands Not Specified Beaver Dam(s) ☐
 Channel Pattern Sinuous Landuse Not Specified LWD jam(s) ☐
 Riparian Vegetation Not Specified Valley Flat Not Specified (C)ontinuous ☐
 (D)iscontinuous ☐

SITE

Gazetted Name Local Name Unnamed
 Survey Date 1998/09/21 Time 15:21 FIELD UTM(Zone/East/North/Method)
 Crew JD/SW Access V2 MAP UTM (Zone/East/North/Method) GIS
 Site Length (m) 200 Method HC Fish Card ☐ Incomplete ☐ NID Map 93M.010 NID # 62000

CHANNEL

							Average	Method(s)
Channel Widths (m)	1.7	1.1	2.1	1.3	1.2	0.8	1.4	T
Wetted Widths (m)	0.0	0.0	0.0	0.0	0.0	0.0	n/a	T
Resid. Pool Depths (m)	0.00	0.00	0.00	0.00	0.00	0.00	n/a	T

No Vis.Ch. ☐	Dewatered ☐	Gradients (%)	2.0	3.0	2.5	AL ,
Intermittent ☒	Tributaries ☐	Bankfull Depth (m)	0.1		0.1	T

Stage ☒ Low
☐ Med.
☐ High

COVER -		Total	Moderate	LWD Few	Dist.	Clumped
SWD	LWD	Boulder	Cutbank	Deep Pool	Over Veg	Instream Veg
Trace	Trace	None	Trace	None	Dominant	None

Crown Closure
 71-90%

Instream Vegetation
☐ None ☒ Moss
☐ Algae ☐ Vasc.

LEFT BANK

Shape Sloping (gradual or shallow sloping)
 Riparian Veg. Mixed C/D
 Riparian Stage Pole-sapling stage

Texture ☒ Fines ☐ Gravel ☐ Cobble
☐ Boulder ☐ Rock ☐ Man Made

RIGHT BANK

Shape Sloping (gradual or shallow sloping)
 Riparian Veg. Mixed C/D
 Riparian Stage Pole-sapling stage

Texture ☒ Fines ☐ Gravel ☐ Cobble
☐ Boulder ☐ Rock ☐ Man Made

WATER

Temperature Method T4 pH Method P2 EMS #
 Conductivity Method S2 Turbidity ☐ Turbid ☐ Medium ☐ Light ☐ Clear Method GE

MORPHOLOGY

BED Dominant Fines D95(cm) (only 5%larger) 8
 MATERIAL Subdominant Cobble D (cm) (moveable) 3

Channel Pattern Sinuous
 Coupling Decoupled
 Confinement Occasionally Confined
 Islands None

Morphology Code
 RP

Beaver Dam(s) ☐ O1
 Eroding Bank(s) ☐ B2
 LWD Jam(s) ☐ D3
 Sediment Wedges ☐ S3
 Bars
☒ None ☐ Mid
☐ Side ☐ Span
☐ Diag. ☐ Braid

Site/Reach Card

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

Reach 1.0

ILP # 11363

Site # 620

ILP Map # 93M.010

Project Name Northwood Pulp and Timber Fish Inventory

Project Code 06-BABL-0103-0606-1998

FEATURES

Type BG Height Method Length Method
 Comments No culvert at road crossing - stream channelized - diverted to run along roadside for 100 to 150 metres then crosses and rejoins original bed.

Photograph Roll 14 Frame 32 UTM (Zone/East/North/ Method)

Type CV Height .5 Method T Length 12 Method T

Comments Culvert that rejoins stream to original bed

Photograph Roll 15 Frame 1 UTM (Zone/East/North/ Method)

HABITAT QUALITY

FSZs Side Chan ☐ Flood/Beaver ☐
 Tribs. ☐ Flood Chan ☐ Slough ☐

Name Comments

Spawning Habitat Poor spawning habitat - no substrate

Rearing Habitat Rearing habitat is seasonal - poor to fair - ephemeral water flows

PHOTO DOCUMENTATION

Film	Compact Disc	Lens / Dir.	Comments
Roll 14 Fr 32 CD 1072 Im 18 STD NS	Road crossing		
Roll 14 Fr 33 CD 1072 Im 19 STD U	Dry channel		
Roll 14 Fr 34 CD 1072 Im 20 STD D			
Roll 14 Fr 35 CD 1072 Im 21 STD NS			
Roll 14 Fr 36 CD 1072 Im 22 STD U	Abandoned channel		
Roll 15 Fr 1 CD 1072 Im 23 STD U	Culvert		

WILDLIFE

COMMENTS

Form Section Comments

SITE CHANNEL Ephemeral stream - fish accessible during flows - possible connection with fish bearing waters - fish would have to swim along diverted channel

Site/Reach Card

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

Reach 6.0

ILP # 29301

Site # 602

ILP Map # 93M.029

Project Name Northwood Pulp and Timber Fish Inventory

Project Code 06-BABL-0103-0606-1998

REACH ATTRIBUTES

Sample Type R

Length (km) .96 Elevation (m): upstream 1230 downstream 1220 UTM (Zone/East/North/ method)
 Gradient (%) 1.0 Order 2 Magnitude 2 BGC Zone SBS
 Setting Valley Floor Bars ☒ None ☐ Side ☐ Diagonal ☐ Mid ☐ Span ☐ Braid
 Open water A Wetland ☒ Mass Movement Low or no impact to channel; Active Floodplain ☐
 Confinement Unconfined Exposed/Eroded Unknown, Not visible Width (m)
 Coupling Decoupled Islands None Visible Beaver Dam(s) ☐
 Channel Pattern Regular Meanders Landuse None/natural LWD jam(s) ☐
 Riparian Vegetation Grass Valley Flat Not Specified (C)ontinuous ☐
 (D)iscontinuous ☐

SITE

Gazetted Name Local Name Unnamed
 Survey Date 1998/09/26 Time 12:59 FIELD UTM(Zone/East/North/Method)
 Crew JH/JM Access H MAP UTM (Zone/East/North/Method) GIS
 Site Length (m) 150 Method GE Fish Card ☒ Incomplete ☐ NID Map 93M.019 NID # 60062

CHANNEL

							Average	Method(s)
Channel Widths (m)	1.7	1.6	1.2	1.4	1.5	1.5	1.5	T
Wetted Widths (m)	1.7	1.6	1.2	1.4	1.5	1.5	1.5	T
Resid. Pool Depths (m)	0.50	0.40	0.55	0.45	0.40	0.40	0.45	T

No Vis.Ch. ☐	Dewatered ☐	Gradients (%)	3.0	2.0	2.5	AL ,	
Intermittent ☐	Tributaries ☐	Bankfull Depth (m)	0.5	0.6	0.5	0.5	T

Stage ☐ Low
☒ Med.
☐ High

COVER -		Total	Trace	LWD	None	Dist.	Not Applicable
SWD	LWD	Boulder	Cutbank	Deep Pool	Over Veg	Instream Veg	
None	None	None	None	Dominant	Trace	None	

Crown Closure
 0%

LEFT BANK

Shape Overhanging bank
 Riparian Veg. Wetland
 Riparian Stage Not Applicable

Texture ☒ Fines ☐ Gravel ☐ Cobble
☐ Boulder ☐ Rock ☐ Man Made

RIGHT BANK

Shape Overhanging bank
 Riparian Veg. Wetland
 Riparian Stage Not Applicable

Texture ☒ Fines ☐ Gravel ☐ Cobble
☐ Boulder ☐ Rock ☐ Man Made

Instream Vegetation
☒ None ☐ Moss
☐ Algae ☐ Vasc.

WATER

Temperature 8 Method T4 pH 7.9 Method P2 EMS #
 Conductivity 120 Method S2 Turbidity ☐ Turbid ☐ Medium ☒ Light ☐ Clear Method GE

MORPHOLOGY

BED Dominant Fines D95(cm) (only 5%larger) 0.1
 MATERIAL Subdominant Not Applicable (same as Dominant) D (cm) (moveable) 0.1

Channel Pattern Regular Meanders
 Coupling Decoupled
 Confinement Unconfined
 Islands None

Morphology Code
 NS

Beaver Dam(s) ☐ O1
 Eroding Bank(s) ☐ B2 ☒ None ☐ Mid
 LWD Jam(s) ☐ D3 ☐ Side ☐ Span
 Sediment Wedges ☐ S3 ☐ Diag. ☐ Braid

Site/Reach Card

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

Reach 6.0

ILP # 29301

Site # 602

ILP Map # 93M.029

Project Name Northwood Pulp and Timber Fish Inventory

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FEATURES**HABITAT QUALITY**

FSZs

Side Chan ☐Flood/Beaver ☐Tribes. ☐Flood Chan ☐Slough ☐**Name****Comments**

Rearing Habitat

Moderate rearing habitat

Spawning Habitat

Poor spawning habitat - fines as substrate

PHOTO DOCUMENTATION

Film	Compact Disc				Lens / Dir.		Comments
Roll 506	Fr	4	CD	278	Im	10	STD U
Roll 506	Fr	5	CD	278	Im	11	STD D
Roll 506	Fr	6	CD	278	Im	12	STD NS Fish

WILDLIFE**COMMENTS**

Form Section

Comments

SITE

MORPHOLOGY

Wetland characteristics to stream reach

FDIS Fish Form

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

Reach # 6.0

ILP # 29301

ILP Map # 93M.029

Project Name Northwood Pulp and Timber Fish Inventory

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Lake / Stream S SITE / METHOD Waterbody ID

Permit 34770-20 Date: 1998/09/26 To: 1998/09/26 Crew: JH/JM Resample ☐

Site NID MAP NID UTM:Zone/East/North/ Mthd MTD/NO Temp Cond Turbid Comment

602 93M.019 60062 EF 1 8.0 120 L

GEAR SETTINGS

Site MTD/NO H/P Date In Time In Date Out Time Out Comment

602 EF 1 1 1998/09/26 12:59 1998/09/26 13:31

NET/TRAP SPECIFICATIONS

ELECTROFISHER SPECIFICATIONS

Site MTD/NO H/P Encl Sec. Length Width Volts Hz Pulse Make Model
602 EF 1 1 O 329 150.0 1.0 500 60 5 SR TYPE VII

FISH SUMMARY

Site MTD/NO H/P Species Stage Age Total # Lgth (Min/Max) Activity Comment

602 EF 1 1 RB A 3 150 190 R

INDIVIDUAL FISH DATA

Site	MTD/NO	H/P	Species	Length (mm)	Weight (g)	Sex	Mat	Str / Smpl# / Age	Vch#	Str/ Smpl#	Roll Fr.	Comment
602	EF	1	1	RB	150	U	U					
602	EF	1	1	RB	160	U	U					
602	EF	1	1	RB	190	U	U	SC 517 3+			506 6	

COMMENTS

Section

WATERBODY

Comments

additional fish visually observed - same species and size (approx. 12 more observed)