

Reconnaissance (1:20,000) Fish and Fish Habitat Inventory in the Morice River Watershed

WSC: ⁴⁶⁰~~180~~-600600-00000

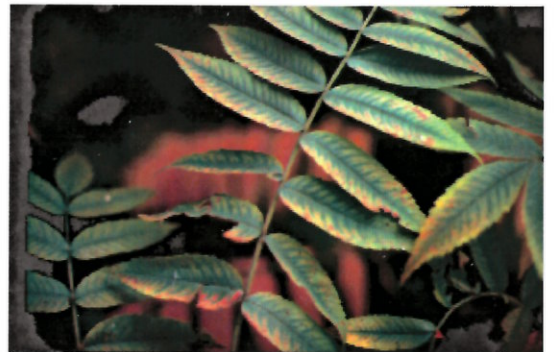


TRITON

Environmental Consultants Ltd.

Reconnaissance (1:20,000) Fish and Fish Habitat Inventory in the Upper Morice Watershed

WSC: 460-600600



TRITON

Environmental Consultants Ltd.

Site/Reach Card

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

Reach 2.0

ILP # 1478

Site # 330

ILP Map # 93L.014

Project Name Morice River Fish Inventory - 1999

Project Code 1710

REACH ATTRIBUTES

Sample Type B

Length (km) 1.03 Elevation (m): upstream 900 downstream 820 UTM (Zone/East/North/ method) 9 609745 600028 GIS
 Gradient (%) 7.8 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 NONE Width (m)
 Coupling Partially Coupled Islands NONE Beaver Dam(s) ☐
 Channel Pattern Sinuous 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 1999/08/15 Time 11:50 Agency: C151
 Crew JA/JD Access V4 MAP UTM (Zone/East/North/Method) 9 609378 5999470 GIS
 Site Length (m) 300 Method HC Fish Card ☒ Incomplete ☐ NID Map 93L.014 NID # 40030

CHANNEL

	Average						Method(s)
Channel Widths (m)	1.6	1.6	1.3	1.6	1.5	1.4	1.5 MS
Wetted Widths (m)	1.2	1.1	1.0	1.0	1.2	1.0	1.1 MS
Resid. Pool Depths (m)	0.11	0.12	0.13	0.14	0.16	0.13	0.13 MS

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

Stage ☐ Low
☒ Med.
☐ High

COVER -		Total	Abundant	LWD	Abundant	Dist.	Evenly Distributed
SWD	LWD	Boulder	Cutbank	Deep Pool	Over Veg	Instream Veg	
ub-Dominant	ub-Dominant	None	Trace	None	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. Shrubs
 Riparian Stage Shrub/herb stage

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

WATER

Temperature 9 Method T3 pH 7.2 Method P2 EMS #
 Conductivity 70 Method S3 Turbidity ☐ Turbid ☐ Medium ☐ Light ☒ Clear Method GE

MORPHOLOGY

BED Dominant Gravels D95(cm) (only 5% larger) 15
 MATERIAL Subdominant Cobble D (cm) (moveable) 7

Channel Pattern Sinuous
 Coupling Partially Coupled
 Confinement Occasionally Confined
 Islands None

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 2.0
Site # 330

ILP # 1478
ILP Map # 93L.014

Project Name Morice River Fish Inventory - 1999

Project Code 1710

Abandoned channel ☐ B1	SWD ☐ D1	Extensive riffle ☐ C1	Homog. be ☐ S1
Eroding bank ☐ B2	LWD ☐ D2	Minimal pool are ☐ C2	Sediment finger ☐ S2
Avulsion ☐ B3	LWD Jam(s) ☐ D3	Elevated mid chan bar ☐ C3	Sediment wedge ☐ S3
		Mult. chan./braid ☐ C4	Extensive bar ☐ S4
Beaver dam ☐ O1		Dist. stone line ☐ C5	Extensive sco ☐ S5

FEATURES

Type CV Height .8 Method GE Length 17 Method GE
Comments Perched culvert
Photograph Roll 3 Frame 14 UTM (Zone/East/North/ Method) 9 609356 599938 GIS

HABITAT QUALITY

FSZs ☐ Side Chan ☒ Flood/Beave ☒
Tribes ☒ Flood Cha ☒ Sloug ☒

Name	Comments
Spawning Habitat	Fair spawning habitat
Rearing Habitat	Fair rearing habitat
OverWinter Habitat	No overwintering habitat

PHOTO DOCUMENTATION

Film	Compact Disc	Lens / Dir.	Comments
Roll 3 Fr 14 CD 2110 Im 76 STD U	Site 330, looking upstream at culvert (perched) 800mm		
Roll 3 Fr 15 CD 2110 Im 77 STD U	Site 330, looking downstream at riparian vegetation, riffle pool habitat		
Roll 3 Fr 16 CD 2110 Im 78 STD D	Site 330, looking downstream at LWD blazed tree on left side		

WILDLIFE

COMMENTS

Form	Section	Comments
SITE	CHANNEL	C1, S3
SITE	CHANNEL	C2, NFC - resample in spring
SITE	SITE CARD	C6, FC# 7195

FDIS Fish Form

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

Reach # 2.0

ILP # 1478

ILP Map # 93L.014

Project Name Morice River Fish Inventory - 1999

Project Code 1710

Lake/Stream	S	SITE/METHOD				Waterbody ID
Permit	34770-20	Date:	1999/08/15	To:	1999/08/16	Crew: JD/JA
						Resample ☒

Site	NID MAP	NID	UTM:Zone/East/North/	Mthd	MTD/NO	Temp	Cond	Turbid	Comment
330	93L.014	40030	9 609378 5999470	EF	1	9.0	70	C	
330	93L.014	40030	9 609378 5999470	MT	1	9.0	70	C	
330	93L.014	40030	9 609378 5999470	MT	2	9.0	70	C	

GEAR SETTINGS

Site	MTD/NO	H/P	Date In	Time In	Date Out	Time Out	Comment
330	EF 1	1	1999/08/15	11:45	1999/08/15	12:40	
330	MT 1	1	1999/08/15	12:30	1999/08/16	17:40	
330	MT 2	1	1999/08/15	12:30	1999/08/16	17:40	

NET/TRAP SPECIFICATIONS

Site	MTD/NO.	H/P	Net Type	Length	Depth	Mesh	Setting	Habitat
330	MT 1	1			0.4		BT	NA
330	MT 2	1			0.4		BT	NA

ELECTROFISHER SPECIFICATIONS

Site	MTD/NO	H/P	Encl	Sec.	Length	Width	Volts	Hz	Pulse	Make	Model
330	EF 1	1	O	1130	400.0	1.6	600	60	6	SR	12-B

FISH SUMMARY

Site	MTD/NO	H/P	Species	Stage	Age	Total #	Lgth (Min/Max)	Activity	Comment
330	EF	1	1	NFC		0			
330	MT	1	1	NFC		0			
330	MT	2	1	NFC		0			

INDIVIDUAL FISH DATA

COMMENTS

Section	Comments
WATERBODY	Resample in spring to confirm fish absence



Photo #: 3 - 15

Site 330, looking downstream at riparian vegetation, riffle pool habitat



Photo #: 3 - 14

Site 330, looking upstream at culvert (perched) 800 mm



Photo #: 3 - 16
Site 330, looking downstream at LWD blazed tree on left side

Site/Reach Card

Watershed Code 460-600600-57600-00000-0000-0000-000-000-000-000-000

Reach 5.0

Site # 331

Project Name Morice River Fish Inventory - 1999

Project Code 1710

REACH ATTRIBUTES										Sample Type	B	
Length (km)	1.39	Elevation (m): upstream	930	downstream	880	UTM (Zone/East/North/ method)						
Gradient (%)	3.6	Order	2	Magnitude	5	BGC Zone	SBS	9	612666	5999283	GIS	
Setting	Valley Floor					Bars	☐ None	☒ Side	☐ Diagonal	☐ Mid	☐ Span	☐ Braid
Open water	A	Wetland	☐	Mass Movement	Medium impact; some debris				Active Floodplain	☐		
Confinement	Frequently Confined			Exposed/Eroded	NONE				Width (m)	☐		
Coupling	Partially Coupled			Islands	NONE				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	☒ N		
									(D)iscontinuous	☐		

SITE												
Gazetted Name	NADO CREEK				Local Name	Unnamed						
Survey Date	1999/08/15		Time	13:20		Agency:	C151					
Crew	JAJD		Access	V4		MAP UTM (Zone/East/North/Method)	9	612553	5999306	GIS		
Site Length (m)	200		Method	NS		Fish Card	☒ Incomplete	☐	NID Map	93L.014 NID # 40031		

CHANNEL											
Channel Widths (m)	3.6	4.6	4.6	2.9	3.2	4.3	Average	Method(s)			
Wetted Widths (m)	1.6	1.8	2.0	2.0	2.3	2.9	2.1	MS			
Resid. Pool Depths (m)	0.36	0.46	0.32	0.51	0.46	0.31	0.40	MS			
No Vis.Ch.	☐	Dewatered	☐	Gradients (%)	2.0	3.0	2.0	3.0	2.5	C, C	
Intermittent	☐	Tributaries	☐	Bankfull Depth (m)	0.6	0.9	0.9	0.8	MS		

Stage		COVER -						
☐ Low	☒ Med.	Total	Abundant	LWD	Abundant	Dist.	Evenly Distributed	
☐ High		SWD	LWD	Boulder	Cutbank	Deep Pool	Over Veg	Instream Veg
		Trace	Dominant	Trace	Sub-Dominant	Trace	Trace	Trace
Crown Closure	1-20%							
Instream Vegetation	LEFT BANK Shape Overhanging bank 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. Deciduous Riparian Stage Pole-sapling stage Texture ☐ Fines ☒ Gravel ☒ Cobble ☐ Boulder ☐ Rock ☐ Man Made							
☐ None ☒ Moss								
☐ Algae ☐ Vasc.								

WATER									
Temperature	9	Method	T3	pH	6.9	Method	P2	EMS #	
Conductivity	60	Method	S3	Turbidity	☐ Turbid ☐ Medium ☐ Light ☒ Clear	Method	GE		

MORPHOLOGY										
BED	Dominant Gravels				D95(cm) (only 5%larger)	40				
MATERIAL	Subdominant Cobble				D (cm) (moveable)	20				
Channel Pattern	Sinuous				Morphology Code	RP				
Coupling	Partially Coupled				Bars	☐ None ☐ Mid ☒ Side ☐ Span ☐ Diag. ☐ Braid				
Confinement	Frequently Confined				Abandoned channels	☐ B1	SWD	☐ D1	Extensive riffles	☐ C1
Islands	None				Homog. bed	☐ S1				

Site/Reach Card

Watershed Code 460-600600-57600-00000-0000-0000-000-000-000-000-000

Reach 5.0

Site # 331

Project Name Morice River Fish Inventory - 1999

Project Code 1710

Eroding banks ☐ B2	LWD ☐ D2	Minimal pool area ☐ C2	Sediment fingers ☐ S2
Avulsions ☐ B3	LWD Jam(s) ☐ D3	Elevated mid chan bars ☐ C3	Sediment wedges ☐ S3
		Mult. chan./braids ☐ C4	Extensive bars ☐ S4
Beaver dams ☐ O1		Dist. stone lines ☐ C5	Extensive scour ☐ S5

FEATURE

HABITAT QUALITY

FSZs

Side Chan ☒

Flood/Beaver ☒

Tribs ☒

Flood Chan ☒

Slough ☒

Name	Comments
Spawning Habitat	Excellent spawning habitat
Rearing Habitat	Excellent rearing habitat
OverWinter Habitat	Overwintering habitat present

PHOTO DOCUMENTATION

Film	Compact Disc	Lens / Dir.	Comments
Roll 3 Fr 17 CD 2110 Im 79 STD U			Site 331, looking upstream at LWD
Roll 3 Fr 18 CD 2110 Im 80 STD D			Site 331, looking downstream at crew member in picture

WILDLIFE

COMMENT

Form	Section	Comments
SITE	CHANNEL	C1, S3
SITE	CHANNEL	C2, RB captured
SITE	SITE CARD	C6, FC# 15892

FDIS Fish Form

Watershed Code 460-600600-57600-00000-0000-0000-000-000-000-000-000

Reach # 5.0

ILP #

ILP Map #

Project Name Morice River Fish Inventory - 1999

Project Code 1710

Lake / Stream	S	SITE / METHOD	Waterbody ID
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Permit 34770-20 Date: 1999/08/15 To: 1999/08/15 Crew: JD/JA Resample ☐

Site	NID MAP	NID	UTM:Zone/East/North/	Mthd	MTD/NO	Temp	Cond	Turbid	Comment
331	93L.014	40031	9 612553	5999306	EF 1	9.0	60	C	

GEAR SETTINGS

Site	MTD/NO	H/P	Date In	Time In	Date Out	Time Out	Comment
331	EF 1	1	1999/08/15	13:20	1999/08/15	14:30	

NET/TRAP SPECIFICATIONS

ELECTROFISHER SPECIFICATIONS

Site	MTD/NO	H/P	Encl	Sec.	Length	Width	Volts	Hz	Pulse	Make	Model
331	EF 1	1	O	524	100.0	3.2	600	60	6	SR	12-B

FISH SUMMARY

Site	MTD/NO	H/P	Species	Stage	Age	Total #	Lgth (Min/Max)	Activity	Comment	
331	EF	1	1	RB	F	0+	12	35	46	R
331	EF	1	1	RB	J	1+	4	63	72	R
331	EF	1	1	RB	A	2+	2	96	120	R
331	EF	1	1	RB	J		6	80	170	R

INDIVIDUAL FISH DATA

Site	MTD/NO	H/P	Species	Length (mm)	Weight (g)	Sex	Mat	Age	Str / Smpl# / Age	Vch#	Genetic	Photograph	Roll	Fr.	Comment
331	EF	1	1	RB	42		U	U					3	19	4 fry
331	EF	1	1	RB	37		U	U							
331	EF	1	1	RB	38		U	U							
331	EF	1	1	RB	39		U	U							
331	EF	1	1	RB	35		U	U							
331	EF	1	1	RB	40		U	U							
331	EF	1	1	RB	42		U	U							
331	EF	1	1	RB	46		U	U							
331	EF	1	1	RB	43		U	U							
331	EF	1	1	RB	45		U	U							
331	EF	1	1	RB	39		U	U							
331	EF	1	1	RB	40		U	U							
331	EF	1	1	RB	68		U	U							
331	EF	1	1	RB	63		U	U							
331	EF	1	1	RB	70		U	U							
331	EF	1	1	RB	72		U	U							
331	EF	1	1	RB	96		U	U		1+					
331	EF	1	1	RB	120		U	U							
331	EF	1	1	RB	102		U	U	SC	1094	1+				
331	EF	1	1	RB	89		U	U	SC	1095	1+				
331	EF	1	1	RB	95		U	U	SC	1096	1+				
331	EF	1	1	RB	90		U	U	SC	1097	1+				
331	EF	1	1	RB	170		U	U	SC	1098	2+				
331	EF	1	1	RB	80		U	U	SC	1099	1+				

FDIS Fish Form

Watershed Code 460-600600-57600-00000-0000-0000-000-000-000-000-000

Reach # 5.0

ILP #

ILP Map #

Project Name Morice River Fish Inventory -1999

Project Code 1710

COMMENTS



Photo #: 3 - 18
Site 331, looking downstream at crew member in picture



Photo #: 3 - 17
Site 331, looking upstream at LWD



Photo #: 3 - 19
Site 331, photo of 4 rainbow trout fry.

Site/Reach Card

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

Reach 5.0

ILP # 1180

Site # 332

ILP Map # 93L.015

Project Name Morice River Fish Inventory - 1999

Project Code 1710

REACH ATTRIBUTES									
Length (km)	.89	Elevation (m): upstream	867	downstream	823	UTM (Zone/East/North/ method)	9 616708 599750 GIS		
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		NONE		Width (m)	☐	
Coupling	Decoupled		Islands		NONE		Beaver Dam(s)	☐	
Channel Pattern	Irregular, Wandering		Landuse		Not Specified		LWD jam(s)	☐	
Riparian Vegetation	Deciduous		Valley Flat		No valley flat on either bank		(C)ontinuous	☐	
							(D)iscontinuous	☐	

SITE									
Gazetted Name	Local Name Unnamed								
Survey Date	1999/08/12	Time	15:20	Agency:	C151				
Crew	JA.JD	Access	V4	MAP UTM (Zone/East/North/Method)	9	617045	5997073	GIS	
Site Length (m)	260	Method	HC	Fish Card	☒ Incomplete ☐	NID Map	93L.014	NID #	40032

CHANNEL									
Channel Widths (m)	4.2	4.1	3.3	3.9	4.3	4.4	Average	Method(s)	
Wetted Widths (m)	1.4	1.3	2.0	2.3	3.0	3.6	4.0	MS	
Resid. Pool Depths (m)	0.29	0.30	0.41	0.26	0.37	0.21	2.3	MS	
							0.31	MS	

No Vis.Ch.	☐	Dewatered	☐	Gradients (%)	2.0	3.0	2.5	3.0	2.6	C, C
Intermittent	☐	Tributaries	☐	Bankfull Depth (m)	0.9	0.9	0.9	0.9	0.9	MS

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

Crown Closure	LEFT BANK	RIGHT BANK
21-40%	Shape Sloping (gradual or shallow sloping)	Shape Overhanging bank
	Riparian Veg. Deciduous	Riparian Veg. Deciduous
	Riparian Stage Pole-sapling stage	Riparian Stage Pole-sapling stage
	Texture ☒ Fines ☒ Gravel ☐ Cobble	Texture ☐ Fines ☒ Gravel ☒ Cobble
	☐ Boulder ☐ Rock ☐ Man Made	☐ Boulder ☐ Rock ☐ Man Made

WATER									
Temperature	10	Methoc T3	pH	6.8	Method P2	EMS #			
Conductivity	50	Method S3	Turbidity	☐ Turbid ☐ Medium ☐ Light ☒ Clear	Method GE				

MORPHOLOGY									
BED	Dominant Cobble		D95(cm) (only 5% larger)	35					
MATERIAL	Subdominant Gravels		D (cm) (moveable)	10					
Channel Pattern	Straight		Morphology Code	RP					
Coupling	Decoupled				Bars ☒ None ☐ Mid ☐ Side ☐ Span ☐ Diag. ☐ Braid				
Confinement	Unconfined								
Islands	None								

Site/Reach Card

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

Reach 5.0

ILP # 1180

Site # 332

ILP Map # 93L.015

Project Name Morice River Fish Inventory - 1999

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Abandoned channel ☐ B1	SWD ☐ D1	Extensive riffle ☐ C1	Homog. be ☐ S1
Eroding bank ☐ B2	LWD ☐ D2	Minimal pool are ☐ C2	Sediment finger ☐ S2
Avulsion ☐ B3	LWD Jam(s) ☐ D3	Elevated mid chan bar ☐ C3	Sediment wedge ☐ S3
		Mult. chan./braid ☐ C4	Extensive bar ☐ S4
Beaver dam ☐ O1		Dist. stone line ☐ C5	Extensive sco ☐ S5

FEATURES

HABITAT QUALITY

FSZs

Side Chan ☐

Flood/Beave ☐

Tribs ☐

Flood Cha ☐

Sloug ☐

PHOTO DOCUMENTATION

Film	Compact Disc	Lens / Dir.	Comments
Roll 3 Fr 20 CD 2110 Im 82 STD D	Site 332, looking downstream at overstream log.		
Roll 3 Fr 21 CD 2110 Im 83 STD U	Site 332, looking upstream at overstream log.		
Roll 3 Fr 22 CD 2110 Im 84 STD D	Site 332, looking downstream at wooden culvert.		

WILDLIFE

COMMENTS

FDIS Fish Form

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

Reach # 1.0

ILP # 1180

ILP Map # 93L.015

Project Name Morice River Fish Inventory - 1999

Project Code 1710

Lake / Stream	S	SITE/METHOD	Waterbody ID
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Permit 34770-20 Date: 1999/08/15 To: 1999/08/15 Crew: JD/JA Resample ☐

Site	NID MAP	NID	UTM:Zone/East/North/ Mthd	MTD/NO	Temp	Cond	Turbid	Comment
332	93L.014	40032	9 617045 5997073	EF 1	10.0	50	C	

GEAR SETTINGS

Site	MTD/NO	H/P	Date In	Time In	Date Out	Time Out	Comment
332	EF 1	1	1999/08/15	15:20	1999/08/15	16:30	

NET/TRAP SPECIFICATIONS

ELECTROFISHER SPECIFICATIONS

Site	MTD/NO	H/P	Encl	Sec.	Length	Width	Volts	Hz	Pulse	Make	Model
332	EF 1	1	O	526	400.0	2.6	600	60	6	SR	12-B

FISH SUMMARY

Site	MTD/NO	H/P	Species	Stage	Age	Total #	Lgth (Min/Max)	Activity	Comment
332	EF 1	1	CAS	A		2	62 76	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
332	EF 1	1	CAS	62		U	U					
332	EF 1	1	CAS	76		U	U					

COMMENTS

Section	Comments
WATERBODY	No fish captured until just before the lake - collapsed bridge and braided channel.



Photo #: 3 - 22
Site 332, looking downstream at wooden culvert.



Photo #: 3 - 21
Site 332, looking upstream at overstream log.



Photo #: 3 - 20
Site 332, looking downstream at overstream log.

Site/Reach Card

Watershed Code 460-600600-57600-18800-0000-0000-000-000-000-000-000

Reach 3.0

Site # 333

Project Name Morice River Fish Inventory - 1999

Project Code 1710

REACH ATTRIBUTES									
Length (km)	.21	Elevation (m): upstream	800	downstream	795	UTM (Zone/East/North/ method)	Sample Type R		
Gradient (%)	2.4	Order	1	Magnitude	3	BGC Zone	SBS	9	606087 5997939 GIS
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		NONE		Width (m)		
Coupling	Decoupled		Islands		NONE		Beaver Dam(s)		
Channel Pattern	Irregular Meanders		Landuse		None/natural		LWD jam(s)		
Riparian Vegetation	Deciduous		Valley Flat		No valley flat on either bank		(C)ontinuous ☒ (D)iscontinuous ☐		

SITE									
Gazetted Name					Local Name	Unnamed			
Survey Date	1999/08/16	Time	07:15	Agency:	C151				
Crew	JAJD	Access	V4	MAP UTM (Zone/East/North/Method)	9	606192	5997935	GIS	
Site Length (m)	210	Method	HC	Fish Card	☐ Incomplete ☐	NID Map	93L.014	NID # 40033	

CHANNEL									
Channel Widths (m)	1.1	1.0	0.8	1.2	0.9	1.0	Average	Method(s)	
Wetted Widths (m)							n/a	T	
Resid. Pool Depths (m)							n/a		
No Vis.Ch.	☐	Dewatered	☐	Gradients (%)		1.0	1.0	1.5	1.5
Intermittent	☒	Tributaries	☐	Bankfull Depth (m)		0.3	0.3	0.3	0.3
								C	C
								MS	

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

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

MORPHOLOGY									
BED	Dominant	Fines	D95(cm) (only 5% larger)	0					
MATERIAL	Subdominant	Not Applicable (same as Dominant)			D (cm) (moveable)				
Channel Pattern	Irregular Meanders		Morphology Code	RP		Bars			
Coupling	Decoupled				☒ None ☐ Mid				
Confinement	Unconfined				☐ Side ☐ Span				
Islands	None				☐ Diag. ☐ Braid				
Abandoned channels	☐ B1	SWD	☐ D1	Extensive riffles	☐ C1	Homog. bed	☐ S1		

Site/Reach Card

Watershed Code 460-600600-57600-18800-0000-0000-000-000-000-000-000

Reach 3.0

Site # 333

Project Name Morice River Fish Inventory - 1999

Project Code 1710

Eroding banks ☐ B2	LWD ☐ D2	Minimal pool area ☐ C2	Sediment fingers ☐ S2
Avulsions ☐ B3	LWD Jam(s) ☐ D3	Elevated mid chan bars ☐ C3	Sediment wedges ☐ S3
		Mult. chan./braids ☐ C4	Extensive bars ☐ S4
Beaver dams ☐ O1		Dist. stone lines ☐ C5	Extensive scour ☐ S5

FEATURE

HABITAT QUALITY

FSZs

Side Chan ☒

Flood/Beaver ☒

Tribs. ☒

Flood Chan ☒

Slough ☒

Name	Comments
Spawning Habitat	No spawning habitat
Rearing Habitat	No rearing habitat
OverWinter Habitat	No overwintering habitat

PHOTO DOCUMENTATION

Film	Compact Disc	Lens / Dir.	Comments
Roll 3	Fr 23 CD 2110 Im 85	STD U	Site 333, looking upstream at alder over stream.
Roll 3	Fr 24 CD 2110 Im 86	STD D	Site 333, looking downstream at channel composed of fines.

WILDLIFE

COMMENT

Form	Section	Comments
SITE	CHANNEL	C1, S6
SITE	CHANNEL	C2, No access or suitable fish habitat
SITE	SITE CARD	C6, No fish card
SITE	SITE CARD	Actually sampled 250 m



Photo #: 3 - 24
Site 333, looking downstream at channel composed of fines.



Photo #: 3 - 23
Site 333, looking upstream at alder over stream.

Site/Reach Card

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

Reach 1.0

ILP # 1208

Site # 334

ILP Map # 93L.014

Project Name Morice River Fish Inventory - 1999

Project Code 1710

REACH ATTRIBUTES

Sample Type: B

Length (km) .32 Elevation (m): upstream 820 downstream 797 UTM (Zone/East/North/ method) 9 606298 599756 GIS
 Gradient (%) 7.2 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 NONE 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 No valley flat on either bank (C)ontinuous ☐ (D)iscontinuous ☒

SITE

Gazetted Name Local Name Unnamed
 Survey Date 1999/08/16 Time 09:00 Agency: C151
 Crew JAJD Access V4 MAP UTM (Zone/East/North/Method) 9 606409 5997702 GIS
 Site Length (m) 300 Method NS Fish Card ☐ Incomplete ☐ NID Map 93L.014 NID # 40034

CHANNEL

	0.7	0.9	0.4	1.0	0.7	0.7	0.0	Average	Method(s)
Channel Widths (m)	0.7	0.9	0.4	1.0	0.7	0.7	0.0	0.6	T
Wetted Widths (m)	0.4	0.2	0.2	0.3	0.4	0.2		0.3	T
Resid. Pool Depths (m)	0.03	0.07	0.06	0.09	0.16	0.09		0.08	T

No Vis.Ch. ☐ Dewatered ☐ Gradients (%) 3.0 4.0 4.0 3.0 3.5 C, C
 Intermittent ☐ Tributaries ☐ Bankfull Depth (m) 0.2 0.3 0.3 0.3 MS

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	Trace	None	Dominant	ub-Dominant

Crown Closure
 1-20%

Instream Vegetation

☐ None ☐ Moss
☐ Algae ☒ Vasc.

LEFT BANK

Shape Overhanging bank
 Riparian Veg. Coniferous
 Riparian Stage Pole-sapling 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 10 Methoc T3 pH 7.2 Method P2 EMS #
 Conductivity 60 Method S3 Turbidity ☐ Turbid ☐ Medium ☐ Light ☒ Clear Method GE

MORPHOLOGY

BED Dominant Gravels D95(cm) (only 5%larger) 10
 MATERIAL Subdominant Fines D (cm) (moveable) 2

Channel Pattern Irregular, Wandering
 Coupling Decoupled
 Confinement Unconfined
 Islands None

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 1.0

ILP # 1208

Site # 334

ILP Map # 93L.014

Project Name Morice River Fish Inventory - 1999

Project Code 1710

Abandoned channel ☐ B1	SWD ☐ D1	Extensive riffle ☐ C1	Homog. be ☐ S1
Eroding bank ☐ B2	LWD ☐ D2	Minimal pool are ☐ C2	Sediment finger ☐ S2
Avulsion ☐ B3	LWD Jam(s) ☐ D3	Elevated mid chan bar ☐ C3	Sediment wedge ☐ S3
		Mult. chan./braid ☐ C4	Extensive bar ☐ S4
Beaver dam ☐ O1		Dist. stone line ☐ C5	Extensive sco ☐ S5

FEATURES

HABITAT QUALITY

FSZs ☐

Side Chan ☐

Flood/Beave ☐

Tribs ☐

Flood Cha ☐

Sloug ☐

Name	Comments
Spawning Habitat	No spawning habitat
Rearing Habitat	No rearing habitat
OverWinter Habitat	No overwintering habitat

PHOTO DOCUMENTATION

Film	Compact Disc	Lens / Dir.	Comments
Roll 3 Fr 25 CD 2110 Im 87 STD U	Site 334, looking upstream at vegetated channel.		
Roll 3 Fr 26 CD 2110 Im 88 STD D	Site 334, looking downstream at vegetated channel.		

WILDLIFE

COMMENTS

Form	Section	Comments
SITE	CHANNEL	C1, S6
SITE	CHANNEL	C2, No access through swamp or through lower portion of this reach, no continuous channel
SITE	SITE CARD	C6, No fish card - not enough water to shock



Photo #: 3 - 26
Site 334, looking downstream at vegetated channel.



Photo #: 3 - 25
Site 334, looking upstream at vegetated channel.

Site/Reach Card

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

Reach 4.0

ILP # 1209

Site # 335

ILP Map # 93L.014

Project Name Morice River Fish Inventory - 1999

Project Code 1710

REACH ATTRIBUTES										Sample Type	R	
Length (km)	.47	Elevation (m): upstream	900	downstream	820	UTM (Zone/East/North/ method)						
Gradient (%)	17.0	Order	1	Magnitude	1	BGC Zone	SBS	9	607017	599676	GIS	
Setting	Valley Wall					Bars	☐ None	☐ Side	☐ Diagonal	☐ Mid	☐ Span	☐ Braid
Open water	A	Wetland	☐			Mass Movement	High impact; active debris tor			Active Floodplain	☐	
Confinement	Confined					Exposed/Eroded	NONE			Width (m)		
Coupling	Coupled					Islands	NONE			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	☐ N	
									(D)iscontinuous	☐		

SITE												
Gazetted Name						Local Name	Unnamed					
Survey Date	1999/08/15	Time	09:45	Agency:	C151							
Crew	JA/JD	Access	V4	MAP UTM (Zone/East/North/Method)	9	607155	5996914	GIS				
Site Length (m)	200	Method	HC	Fish Card	☐ Incomplete	☐	NID Map	93L.014	NID #	40035		

CHANNEL										
Channel Widths (m)	1.2	1.4	1.6	1.2	1.6	1.1	Average	Method(s)		
Wetted Widths (m)							1.4	MS		
Resid. Pool Depths (m)							n/a			
							n/a			
No Vis.Ch.	☐	Dewatered	☐	Gradients (%)	21.0	19.0	22.0	19.0	20.2	C, C
Intermittent	☒	Tributaries	☐	Bankfull Depth (m)	0.4	0.5	0.4	0.4	MS	

Stage	☒ Low	COVER -	Total	Abundant	LWD	Abundant	Dist.	Evenly Distributed	
	☐ Med.	SWD	LWD	Boulder	Cutbank	Deep Pool	Over Veg	Instream Veg	
	☐ High	ub-Dominant	Dominant	Trace	Trace	None	Trace	None	
Crown Closure	1-20%	LEFT BANK			RIGHT BANK				
Instream Vegetation		Shape V - shaped (steep sloping or vertical)			Shape V - shaped (steep sloping or vertical)				
		Riparian Veg. Deciduous			Riparian Veg. Coniferous				
		Riparian Stage Shrub/herb stage			Riparian Stage Pole-sapling stage				
		Texture	☐ Fines	☒ Gravel	☒ Cobble				
			☐ Boulder	☐ Rock	☐ Man Made				
						Texture	☐ Fines	☒ Gravel	☒ Cobble
							☐ Boulder	☐ Rock	☐ Man Made

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

MORPHOLOGY										
BED	Dominant Cobble			D95(cm) (only 5%larger)	60					
MATERIAL	Subdominant Boulders			D (cm) (moveable)	19					
Channel Pattern	Sinuous									
Coupling	Coupled									
Confinement	Confined									
Islands	None									
Morphology Code				CP						
				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 # 1209

Site # 335

ILP Map # 93L.014

Project Name Morice River Fish Inventory - 1999

Project Code 1710

Abandoned channel ☐ B1	SWD ☐ D1	Extensive riffle ☐ C1	Homog. be ☐ S1
Eroding bank ☐ B2	LWD ☐ D2	Minimal pool are ☐ C2	Sediment finger ☐ S2
Avulsion ☐ B3	LWD Jam(s) ☐ D3	Elevated mid chan bar ☐ C3	Sediment wedge ☐ S3
		Mult. chan./braid ☐ C4	Extensive bar ☐ S4
Beaver dam ☐ O1		Dist. stone line ☐ C5	Extensive sco ☐ S5

FEATURES

Type F Height 2.0 Method GE Length 1 Method GE

Comments Falls covered in logging slash

Photograph Roll 3 Frame 28 UTM (Zone/East/North/ Method) 9 607187 599705 GIS

HABITAT QUALITY

FSZs ☐ Side Chan ☐ Flood/Beave ☐

Tribs ☐ Flood Cha ☐ Sloug ☐

Name	Comments
Rearing Habitat	No rearing habitat.
Spawning Habitat	No spawning habitat.
OverWinter Habitat	No overwintering habitat
Other	Logging has destroyed the integrity of this stream channel, Reach 3 has become braided as a result.

PHOTO DOCUMENTATION

Film	Compact Disc	Lens / Dir.	Comments
Roll 3 Fr 27 CD 2110 Im 89 STD U	Site 335, looking upstream at channel filled with LWD and SWD.		
Roll 3 Fr 28 CD 2110 Im 90 STD U	Site 335, looking upstream at falls covered in logging slash.		
Roll 3 Fr 29 CD 2110 Im 91 STD D	Site 335, looking downstream at channel filled with SWD and LWD.		

WILDLIFE

COMMENTS

Form	Section	Comments
SITE	CHANNEL	C1. S6
SITE	CHANNEL	C2. Gradient - Ephemeral stream



Photo #: 3 - 29

Site 335, looking downstream at channel filled with SWD and LWD.



Photo #: 3 - 27

Site 335, looking upstream at channel filled with LWD and SWD.



Photo #: 3 - 28

Site 335, looking upstream at falls covered in logging slash.

Site/Reach Card

Watershed Code 460-600600-57600-31800-0000-0000-000-000-000-000-000

Reach 3.0

Site # 336

Project Name Morice River Fish Inventory - 1999

Project Code 1710

REACH ATTRIBUTES									
Length (km)	1.39	Elevation (m): upstream	899	downstream	820	UTM (Zone/East/North/ method)	Sample Type B		
Gradient (%)	5.7	Order	1	Magnitude	1	BGC Zone	SBS	9	608617 5996421 GIS
Setting	Valley Wall		Bars		☐ None ☐ Side ☐ Diagonal ☐ Mid ☐ Span ☐ Braid				
Open water	A	Wetland	☐		Mass Movement	High impact; active debris to		Active Floodplain	☐
Confinement	Frequently Confined		Exposed/Eroded		NONE		Width (m)		
Coupling	Coupled		Islands		NONE		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		☐ N
							(D)iscontinuous		

SITE									
Gazetted Name					Local Name	Unnamed			
Survey Date	1999/08/16	Time	11:15	Agency:	C151				
Crew	JAJD	Access	V4	MAP UTM (Zone/East/North/Method)	9	608568	5996671	GIS	
Site Length (m)	300	Method	HC	Fish Card	☒	Incomplete	☐	NID Map	93L.014
								NID #	40036

CHANNEL										
Channel Widths (m)	1.6	1.7	1.2	1.4	1.8	1.2	Average	Method(s)		
Wetted Widths (m)	1.1	1.1	1.0	0.8	0.7	0.4	1.5	MS		
Resid. Pool Depths (m)	0.11	0.13	0.05	0.07	0.06	0.11	0.9	MS		
							0.09	MS		
No Vis.Ch.	☐	Dewatered	☐	Gradients (%)		4.0	5.0	3.0	4.0	C, C
Intermittent	☐	Tributaries	☐	Bankfull Depth (m)		0.4	0.4	0.5	0.4	MS

COVER -									
Stage	☒ Low	Total	Abundant	LWD	Abundant	Dist.	Evenly Distributed		
	☐ Med.	SWD	LWD	Boulder	Cutbank	Deep Pool	Over Veg	Instream Veg	
	☐ High	Trace	Dominant	Sub-Dominant	Trace	None	Sub-Dominant	Trace	
Crown Closure	21-40%	LEFT BANK				RIGHT BANK			
Instream Vegetation		Shape Overhanging bank				Shape V - shaped (steep sloping or vertical)			
☐ None ☒ Moss		Riparian Veg. Deciduous				Riparian Veg. Coniferous			
☐ Algae ☒ Vasc.		Riparian Stage Shrub/herb stage				Riparian Stage Mature forest			
		Texture ☒ Fines ☒ Gravel ☐ Cobble				Texture ☐ Fines ☒ Gravel ☒ Cobble			
		☐ Boulder ☐ Rock ☐ Man Made				☐ Boulder ☐ Rock ☐ Man Made			

WATER									
Temperature	9	Method	T3	pH	7.1	Method	P2	EMS #	
Conductivity	70	Method	S3	Turbidity	☐ Turbid ☐ Medium ☐ Light ☒ Clear	Method GE			

MORPHOLOGY									
BED	Dominant Cobble		D95(cm) (only 5%larger)		45				
MATERIAL	Subdominant Boulders		D (cm) (moveable)		5				
Channel Pattern	Irregular, Wandering		Morphology Code		RP		Bars		
Coupling	Coupled						☒ None ☐ Mid		
Confinement	Confined						☐ Side ☐ Span		
Islands	None						☐ Diag. ☐ Braid		
Abandoned channels	☐ B1	SWD	☐ D1	Extensive riffles	☐ C1	Homog. bed	☐ S1		

Site/Reach Card

Watershed Code 460-600600-57600-31800-0000-0000-000-000-000-000-000

Reach 3.0

Site # 336

Project Name Morice River Fish Inventory - 1999

Project Code 1710

Eroding banks ☐ B2	LWD ☐ D2	Minimal pool area ☐ C2	Sediment fingers ☐ S2
Avulsions ☐ B3	LWD Jam(s) ☐ D3	Elevated mid chan bars ☐ C3	Sediment wedges ☐ S3
		Mult. chan./braids ☐ C4	Extensive bars ☐ S4
Beaver dams ☐ O1		Dist. stone lines ☐ C5	Extensive scour ☐ S5

FEATURE

Type F Height 3.5 Method GE Length 4 Method GE

Comments Falls impassible to upstream fish migration

Photograph Roll 3 Frame 30 UTM (Zone/East/North/ Method) 9 608690 5996522 GIS

HABITAT QUALITY

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

Name	Comments
Rearing Habitat	Fair rearing habitat
Spawning Habitat	Poor spawning habitat
OverWinter Habitat	NO overwintering habitat

PHOTO DOCUMENTATION

Film	Compact Disc	Lens / Dir.	Comments
Roll 3 Fr 30 CD 2110 Im 92 STD U	Site 336, looking upstream at falls 3.5m high.		
Roll 3 Fr 32 CD 2110 Im 94 STD D	Site 336, looking downstream at Devil's Club.		
Roll 3 Fr 33 CD 2110 Im 95 STD U	Site 336, looking upstream at below falls.		

WILDLIFE

COMMENT

Form	Section	Comments
SITE	CHANNEL	C1, S3
SITE	CHANNEL	C2, RB viewed in lake u/s, NSC captured in stream
SITE	SITE CARD	C6, FC# 15981

FDIS Fish Form

Watershed Code 460-600600-57600-31800-0000-0000-000-000-000-000-000

Reach # 3.0

ILP #

ILP Map #

Project Name Morice River Fish Inventory - 1999

Project Code 1710

Lake/Stream	S	SITE/METHOD				Waterbody ID
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Permit 34770-20 Date: 1999/08/16 To: 1999/08/16 Crew: JD/JA Resample ☐

Site	NID MAP	NID	UTM:Zone/East/North/	Mthd	MTD/NO	Temp	Cond	Turbid	Comment
336	93L.014	40036	9 608568 5996671	EF	1	9.0	70	C	

GEAR SETTINGS

Site	MTD/NO	H/P	Date In	Time In	Date Out	Time Out	Comment
336	EF	1	1	1999/08/16 11:15	1999/08/16 12:40		

NET/TRAP SPECIFICATIONS

ELECTROFISHER SPECIFICATIONS

Site	MTD/NO	H/P	Encl	Sec.	Length	Width	Volts	Hz	Pulse	Make	Model
336	EF	1	1	O	296	300.0	1.6	500	60	6	SR 12-B

FISH SUMMARY

Site	MTD/NO	H/P	Species	Stage	Age	Total #	Lgth (Min/Max)	Activity	Comment
336	EF	1	1	NSC	J	1	129 129	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
336	EF	1	1	NSC	129	U	U				3 31	

COMMENTS

Section	Comments
WATERBODY	Many fish in lake upstream, but tough to catch. RB thought to be present.



Photo #: 3 - 32
Site 336, looking downstream at Devil's Club.



Photo #: 3 - 33
Site 336, looking upstream at below falls.



Photo #: 3 - 30
Site 336, looking upstream at falls 3.5m high.



Photo #: 3 - 31
Site 336, photo of a 129 mm northern pike minnow.

Site/Reach Card

Watershed Cod 000-000000-00000-00000-0000-0000-000-000-000-000-000-000

Reach 2.0

ILP # 1211

Site # 337

ILP Map # 93L.014

Project Name Morice River Fish Inventory - 1999

Project Code 1710

REACH ATTRIBUTES												
Length (km)	1.04	Elevation (m): upstream	900	downstream	820	UTM (Zone/East/North/ method)						
Gradient (%)	7.7	Order	1	Magnitude	1	BGC Zone	SBS	9	608620 599674 GIS			
Setting	Valley Wall					Bars	☐ None	☐ Side	☐ Diagonal	☐ Mid	☐ Span	☐ Braid
Open water	A	Wetland	☐	Mass Movement	Low or no impact to channel;			Active Floodplai	☐			
Confinement	Frequently Confined			Exposed/Eroded	NONE			Width (m)				
Coupling	Decoupled			Islands	NONE			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	☒ N			

SITE									
Gazetted Name	Local Name Unnamed								
Survey Date	1999/08/16	Time	13:19	Agency:	C151				
Crew	JA/JD	Access	V4	MAP UTM (Zone/East/North/Method)	9	608303	5997126	GIS	
Site Length (m)	200	Method	HC	Fish Card	☐ Incomplete	☐	NID Map	93L.014	NID # 40037

CHANNEL									
---------	--	--	--	--	--	--	--	--	--

No Visible Channe ☒

Gradient(s) (%)

Vegetation

Veg. Stage

FEATURE									
---------	--	--	--	--	--	--	--	--	--

HABITAT QUALITY									
					FSZs	Side Chan	Flood/Beave		
					Trips	Flood Cha	Slough		

Name	Comments
Other	No fish habitat - not a stream

PHOTO DOCUMENTATION									
---------------------	--	--	--	--	--	--	--	--	--

Film	Compact Disc	Lens / Dir.	Comments
Roll 3	Fr 34 CD 2110	Im 96 STD U	Site 337, looking upstream at vegetated gully.
Roll 3	Fr 35 CD 2110	Im 97 STD D	Site 337, looking downstream at no stream channel.

COMMENT									
---------	--	--	--	--	--	--	--	--	--

Form	Section	Comments
SITE	CHANNEL	C1, NVC
SITE	CHANNEL	C2, No visible channel or evidence of surface scour
SITE	SITE CARD	C6, no fish card



Photo #: 3 - 35
Site 337, looking downstream at no stream channel.



Photo #: 3 - 34
Site 337, looking upstream at vegetated gully.

Site/Reach Card

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

Reach 2.0

ILP # 1213

Site # 338

ILP Map # 93L.014

Project Name Morice River Fish Inventory - 1999

Project Code 1710

REACH ATTRIBUTES										Sample Type: R		
Length (km)	.54	Elevation (m): upstream	820	downstream	799	UTM (Zone/East/North/ method)						
Gradient (%)	3.9	Order	1	Magnitude	2	BGC Zone	SBS	9	608240	599775 GIS		
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	NONE			Width (m)		
Coupling	Decoupled					Islands	NONE			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	1999/08/16	Time	14:00	Agency:	C151					
Crew	JA/JD	Access	V4	MAP UTM (Zone/East/North/Method)	9	608208	5997914	GIS		
Site Length (m)	200	Method	HC	Fish Card	☐ Incomplete	☐	NID Map	93L.014	NID #	40038

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

No Vis.Ch.	☐	Dewatered	☐	Gradients (%)	2.0	2.0	1.5	1.0	1.6	C, C
Intermittent	☒	Tributaries	☐	Bankfull Depth (m)	0.3	0.3	0.3		0.3	MS

Stage ☐ Low
☐ Med.
☐ High

COVER -		Total	Abundant	LWD	None	Dist.	Not Specified
SWD	LWD	Boulder	Cutbank	Deep Pool	Over Veg	Instream Veg	
Trace	None	None	Trace	None	ub-Dominant	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.	Shrubs
Riparian Stage	Shrub/herb stage
Texture	☒ Fines ☐ Gravel ☐ Cobble
	☐ Boulder ☐ Rock ☐ Man Made

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

MORPHOLOGY									
BED	Dominant Gravels				D95(cm) (only 5% larger)	10			
MATERIAL	Subdominant Fines				D (cm) (moveable)	1			
Channel Pattern	Irregular, Wandering								
Coupling	Decoupled								
Confinement	Unconfined								
Islands	None								
Morphology Code					Bars ☒ None ☐ Mid ☐ Side ☐ Span ☐ Diag. ☐ Braid				
RP									

Site/Reach Card

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

Reach 2.0
Site # 338

ILP # 1213
ILP Map # 93L.014

Project Name Morice River Fish Inventory - 1999

Project Code 1710

Abandoned channel ☐ B1	SWD ☐ D1	Extensive riffle ☐ C1	Homog. be ☐ S1
Eroding bank ☐ B2	LWD ☐ D2	Minimal pool are ☐ C2	Sediment finger ☐ S2
Avulsion ☐ B3	LWD Jam(s) ☐ D3	Elevated mid chan bar ☐ C3	Sediment wedge ☐ S3
		Mult. chan./braid ☐ C4	Extensive bar ☐ S4
Beaver dam ☐ O1		Dist. stone line ☐ C5	Extensive sco ☐ S5

FEATURES

Type CV Height .6 Method GE Length 8 Method GE

Comments Blocked with debris

Photograph Roll 3 Frame 36 UTM (Zone/East/North/ Method) 9 608205 599794 GIS

HABITAT QUALITY

FSZs ☐ Side Chan ☐ Flood/Beave ☐
Tribes ☐ Flood Cha ☐ Sloug ☐

Name	Comments
Rearing Habitat	No rearing habitat
Spawning Habitat	No spawning habitat
OverWinter Habitat	No overwintering habitat

PHOTO DOCUMENTATION

Film	Compact Disc	Lens / Dir.	Comments
Roll 4 Fr 1 CD 2110 Im 100 STD D	Site 338, looking downstream at vegetated channel.		
Roll 4 Fr 2 CD 2110 Im 101 STD U	Site 338, looking upstream at dry vegetated channel.		
Roll 3 Fr 36 CD 2110 Im 98 STD U	Site 338, culvert (600mm) blocked with debris.		

WILDLIFE

COMMENTS

Form	Section	Comments
SITE	CHANNEL	C1, S6
SITE	CHANNEL	C2, Based on habitat characteristics and lack of connection to fish bearing water.
SITE	SITE CARD	C6, No fish card.



Photo #: 3 - 36
Site 338, culvert (600 mm) blocked with debris.



Photo #: 4 - 1
Site 338, looking downstream at vegetated channel.



Photo #: 4 - 2
Site 338, looking upstream at dry vegetated channel.

Site/Reach Card

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

Reach 1.0

ILP # 1213

Site # 339

ILP Map # 93L.014

Project Name Morice River Fish Inventory - 1999

Project Code 1710

REACH ATTRIBUTES										Sample Type	R
Length (km)	.31	Elevation (m): upstream	799	downstream	795	UTM (Zone/East/North/ method)					
Gradient (%)	1.3	Order	2	Magnitude	2	BGC Zone	SBS	9	608099	599825	GIS
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	NONE			Width (m)	
Coupling	Decoupled					Islands	NONE			Beaver Dam(s)	☐
Channel Pattern	Irregular Meanders					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	1999/08/16	Time	15:20	Agency:	C151					
Crew	JA/JD	Access	V4	MAP UTM (Zone/East/North/Method)	9	608150	5998390	GIS		
Site Length (m)	200	Method	HC	Fish Card	☐ Incomplete ☐	NID Map	93L.014	NID #	40039	

CHANNEL												
Channel Widths (m)	0.7	0.7	0.9	0.5	1.0	0.6	Average	Method(s)				
Wetted Widths (m)							n/a					
Resid. Pool Depths (m)							n/a					
No Vis.Ch.	☐	Dewatered	☐	Gradients (%)			1.0	1.5	2.0	1.5	1.5	C, C
Intermittent	☒	Tributaries	☐	Bankfull Depth (m)			0.4	0.6	0.4	0.5	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	None	None	None	Dominant	ub-Dominant
Crown Closure	1-20%	LEFT BANK			RIGHT BANK			
Instream Vegetation		Shape Sloping (gradual or shallow sloping)			Shape Sloping (gradual or shallow sloping)			
☐ None ☒ Moss		Riparian Veg. Shrubs			Riparian Veg. Deciduous			
☐ Algae ☒ Vasc.		Riparian Stage Shrub/herb stage			Riparian Stage Pole-sapling stage			
		Texture	☒ Fines ☐ Gravel ☐ Cobble	Texture				
			☐ Boulder ☐ Rock ☐ Man Made	☒ Fines ☐ Gravel ☐ Cobble				
				☐ Boulder ☐ Rock ☐ Man Made				

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

MORPHOLOGY									
BED	Dominant Fines			D95(cm) (only 5% larger)	5				
MATERIAL	Subdominant Gravels			D (cm) (moveable)	1				
Channel Pattern	Irregular, Wandering								
Coupling	Decoupled								
Confinement	Unconfined								
Islands	None								
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 1.0

ILP # 1213

Site # 339

ILP Map # 93L.014

Project Name Morice River Fish Inventory - 1999

Project Code 1710

Abandoned channel ☐ B1	SWD ☐ D1	Extensive riffle ☐ C1	Homog. be ☐ S1
Eroding bank ☐ B2	LWD ☐ D2	Minimal pool are ☐ C2	Sediment finger ☐ S2
Avulsion ☐ B3	LWD Jam(s) ☐ D3	Elevated mid chan bar ☐ C3	Sediment wedge ☐ S3
		Mult. chan./braid ☐ C4	Extensive bar ☐ S4
Beaver dam ☐ O1		Dist. stone line ☐ C5	Extensive sco ☐ S5

FEATURES

Type CV Height .6 Method GE Length 10 Method GE

Comments Slightly perched CV

Photograph Roll 4 Frame 3 UTM (Zone/East/North/ Method) 9 608108 599826 GIS

HABITAT QUALITY

FSZs ☐ Side Chan ☒ Flood/Beave ☒
Tribes ☒ Flood Cha ☒ Sloug ☒

Name	Comments
Rearing Habitat	No rearing habitat
Spawning Habitat	No spawning habitat
OverWinter Habitat	No overwintering habitat
Other	No connection to fish bearing water

PHOTO DOCUMENTATION

Film	Compact Disc	Lens / Dir.	Comments
Roll 4 Fr 4 CD 2110 Im 103 STD D	Site 339, looking downstream, axe in photo for reference.		
Roll 4 Fr 5 CD 2110 Im 104 STD U	Site 339, looking upstream, axe in photo for reference.		
Roll 4 Fr 3 CD 2110 Im 102 STD U	Site 339, looking upstream at culvert-slightly perched.		

WILDLIFE

COMMENTS

Form	Section	Comments
SITE	CHANNEL	C1, S6
SITE	CHANNEL	C2, no fish habitat and no connection to fish bearing water
SITE	SITE CARD	C6, no fish card



Photo #: 4 - 4
Site 339, looking downstream, axe in photo for reference.



Photo #: 4 - 3
Site 339, looking upstream at culvert-slightly perched.



Photo #: 4 - 5
Site 339, looking upstream, axe in photo for reference.

Site/Reach Card

Watershed Code 460-600600-63200-66200-1840-0000-000-000-000-000-000

Reach 4.0
Site # 340

Project Name Morice River Fish Inventory - 1999

Project Code 1710

REACH ATTRIBUTES										Sample Type	B	
Length (km)	1.16	Elevation (m): upstream	874	downstream	832	UTM (Zone/East/North/ method)						
Gradient (%)	3.6	Order	1	Magnitude	1	BGC Zone	SBS	9	608790	5989780	GIS	
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	NONE			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	No valley flat on either bank			(C)ontinuous	☐	
									(D)iscontinuous	☒ N		

SITE											
Gazetted Name						Local Name	Unnamed				
Survey Date	1999/08/17	Time	08:20	Agency:	C151						
Crew	JA/JD	Access	V4	MAP UTM (Zone/East/North/Method)	9	609615	5990067	GIS			
Site Length (m)	100	Method	NS	Fish Card	☒ Incomplete	☐	NID Map	93L.004	NID #	40040	

CHANNEL												
Channel Widths (m)	1.4	1.4	1.1	1.0	1.6	1.5	Average	1.3	Method(s)	T		
Wetted Widths (m)	0.8	1.0	0.9	0.7	1.0	0.7		0.8		T		
Resid. Pool Depths (m)	0.09	0.11	0.12	0.26	0.32	0.14		0.17		T		
No Vis.Ch.	☐	Dewatered	☐	Gradients (%)			1.0	1.5	2.0	1.0	1.4	C, C
Intermittent	☐	Tributaries	☐	Bankfull Depth (m)			0.4	0.4	0.4		0.4	T

Stage	☐ Low	COVER - Total Abundant LWD Abundant Dist. Evenly Distributed										
	☒ Med.	SWD	LWD	Boulder	Cutbank	Deep Pool	Over Veg	Instream Veg				
	☐ High	Trace	Dominant	None	Sub-Dominant	Trace	Sub-Dominant	Trace				
Crown Closure	21-40%	LEFT BANK					RIGHT BANK					
Instream Vegetation		Shape Overhanging bank					Shape Overhanging bank					
☐ None	☐ Moss	Riparian Veg. Deciduous					Riparian Veg. Coniferous					
☐ Algae	☒ Vasc.	Riparian Stage Pole-sapling stage					Riparian Stage Mature forest					
		Texture ☒ Fines ☐ Gravel ☐ Cobble					Texture ☒ Fines ☐ Gravel ☐ Cobble					
		☐ Boulder ☐ Rock ☐ Man Made					☐ Boulder ☐ Rock ☐ Man Made					

WATER										
Temperature	9	Method	T3	pH	7.1	Method	P2	EMS #		
Conductivity	70	Method	S3	Turbidity	☐ Turbid	☐ Medium	☒ Light	☐ Clear	Method	GE

MORPHOLOGY										
BED	Dominant Gravels					D95(cm) (only 5%larger)	10			
MATERIAL	Subdominant Fines					D (cm) (moveable)	5			
Channel Pattern	Irregular, Wandering					Morphology Code				
Coupling	Decoupled					RP				
Confinement	Unconfined					Bars				
Islands	None					☒ None ☐ Mid				
						☐ Side ☐ Span				
						☐ Diag. ☐ Braid				
Abandoned channels	☐ B1	SWD	☐ D1	Extensive riffles	☐ C1	Homog. bed	☐ S1			

Site/Reach Card

Watershed Code 460-600600-63200-66200-1840-0000-000-000-000-000-000

Reach 4.0
Site # 340

Project Name Morice River Fish Inventory - 1999

Project Code 1710

Eroding banks ☐ B2 LWD ☐ D2 Minimal pool area ☐ C2 Sediment fingers ☐ S2
Avulsions ☐ B3 LWD Jam(s) ☐ D3 Elevated mid chan bars ☐ C3 Sediment wedges ☐ S3
Beaver dams ☐ O1 Mult. chan./braids ☐ C4 Extensive bars ☐ S4
Dist. stone lines ☐ C5 Extensive scour ☐ S5

FEATURE

Type CV Height .8 Method GE Length 8 Method GE
Comments Culvert
Photograph Roll 4 Frame 6 UTM (Zone/East/North/ Method) 9 609712 5990122 GIS

HABITAT QUALITY

FSZs Side Chan ☒ Flood/Beaver ☒
Tribes ☒ Flood Chan ☒ Slough ☒

Name Comments
Spawning Habitat Fair spawning habitat
Rearing Habitat Fair rearing habitat
OverWinter Habitat Poor overwintering habitat in this reach, fair overwintering habitat immediately downstream

PHOTO DOCUMENTATION

Film	Compact Disc	Lens / Dir.	Comments
Roll 4 Fr 6 CD 2110 Im 105 STD U	Site 340, looking upstream at culvert - well placed.		
Roll 4 Fr 7 CD 2110 Im 106 STD U	Site 340, looking upstream, gravel substrate.		
Roll 4 Fr 8 CD 2110 Im 107 STD D	Site 340, looking downstream at corner pool, axe in photo for reference.		

WILDLIFE

COMMENT

Form	Section	Comments
SITE	CHANNEL	C1. S4
SITE	CHANNEL	C2, Lake downstream should be sampled for fish, CT captured in MT's, No barriers to u/s fish migration were found

FDIS Fish Form

Watershed Code 460-600600-63200-66200-1840-0000-000-000-000-000-000

Reach # 4.0

ILP #

ILP Map #

Project Name Morice River Fish Inventory - 1999

Project Code 1710

Lake/Stream	S	SITE/METHOD				Waterbody ID
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Permit 34770-20 Date: 1999/08/17 To: 1999/08/18 Crew: JD/JA Resample ☐

Site	NID MAP	NID	UTM:Zone/East/North/	Mthd	MTD/NO	Temp	Cond	Turbid	Comment
340	93L.004	40040	9 609615 5990067	EF	1	9.0	70	L	
340	93L.004	40040	9 609615 5990067	MT	1	9.0	70	L	
340	93L.004	40040	9 609615 5990067	MT	2	9.0	70	L	

GEAR SETTINGS							
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Site	MTD/NO	H/P	Date In	Time In	Date Out	Time Out	Comment
340	EF 1	1	1999/08/17	08:20	1999/08/17	08:50	
340	MT 1	1	1999/08/17	08:50	1999/08/18	07:30	
340	MT 2	1	1999/08/17	08:52	1999/08/18	07:30	

NET/TRAP SPECIFICATIONS							
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Site	MTD/NO.	H/P	Net Type	Length	Depth	Mesh	Setting	Habitat
340	MT 1	1			0.4		BT	NA
340	MT 2	1			0.3		BT	NA

ELECTROFISHER SPECIFICATIONS										
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Site	MTD/NO	H/P	Encl	Sec.	Length	Width	Volts	Hz	Pulse	Make	Model
340	EF 1	1	O	200	300.0	1.4	600	60	6	SR	12-B

FISH SUMMARY										
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Site	MTD/NO	H/P	Species	Stage	Age	Total #	Lgth (Min/Max)	Activity	Comment
340	EF 1	1	NFC			0			
340	MT 1	1	CT	J		2	65 92	R	
340	MT 2	1	CT	J		1	71 71	R	

INDIVIDUAL FISH DATA													
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Site	MTD/NO	H/P	Species	Length	Weight	Sex	Mat	Age	Vch#	Genetic	Photograph	Comment
				(mm)	(g)			Str / Smpl# / Age		Str/ Smpl#	Roll Fr.	
340	MT	1	1	CT	65	U	U					
340	MT	1	1	CT	92	U	U					
340	MT	2	1	CT	71	U	U					

COMMENTS															
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Section WATERBODY Comments No fish caught by electrofishing.



Photo #: 4 - 6
Site 340, looking upstream at culvert - well placed.



Photo #: 4 - 7
Site 340, looking upstream, gravel substrate.



Photo #: 4 - 8

Site 340, looking downstream at corner pool, axe in photo for reference.

Site/Reach Card

Watershed Code 460-600600-63200-66200-0000-0000-000-000-000-000-000

Reach 2.0
Site # 341

Project Name Morice River Fish Inventory - 1999

Project Code 1710

REACH ATTRIBUTES										Sample Type	B	
Length (km)	.95	Elevation (m): upstream	858	downstream	828	UTM (Zone/East/North/ method)						
Gradient (%)	3.2	Order	3	Magnitude	10	BGC Zone	SBS	9	610673	5989539	GIS	
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	NONE				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	No valley flat on either bank				(C)ontinuous	☐ N		
									(D)iscontinuous	☐		

SITE											
Gazetted Name						Local Name	Unnamed				
Survey Date	1999/08/17	Time	09:35	Agency:	C151						
Crew	JAJD	Access	V2	MAP UTM (Zone/East/North/Method)	9	610726	5989760	GIS			
Site Length (m)	100	Method	HC	Fish Card	☒	Incomplete	☐	NID Map	93L.004	NID #	40041

CHANNEL										
Channel Widths (m)	5.2	6.4	5.4	4.7	4.2	6.4	Average	5.4	Method(s)	T
Wetted Widths (m)	2.9	3.8	4.1	3.2	3.3	4.6		3.6		T
Resid. Pool Depths (m)	0.27	0.28	0.29	0.31	0.37	0.26		0.30		T
No Vis.Ch.	☐	Dewatered	☐	Gradients (%)	1.0	1.5	1.5	1.0	1.2	C, C
Intermittent	☐	Tributaries	☐	Bankfull Depth (m)	0.7	0.8	0.7		0.7	MS

Stage	☐ Low	☒ Med.	☐ High	COVER -	Total	Abundant	LWD	Few	Dist.	Evenly Distributed
				SWD	LWD	Boulder	Cutbank	Deep Pool	Over Veg	Instream Veg
				Trace	Dominant	Sub-Dominant	Sub-Dominant	Trace	Sub-Dominant	None
Crown Closure	1-20%									
Instream Vegetation	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. Mixed C/D Riparian Stage Mature forest Texture ☒ Fines ☒ Gravel ☐ Cobble ☐ Boulder ☐ Rock ☐ Man Made									

WATER										
Temperature	9	Method	T3	pH	7.2	Method	P2	EMS #		
Conductivity	90	Method	S3	Turbidity	☐ Turbid	☐ Medium	☐ Light	☒ Clear	Method	GE

MORPHOLOGY										
BED	Dominant Cobble				D95(cm) (only 5% larger)	35				
MATERIAL	Subdominant Gravels				D (cm) (moveable)	25				
Channel Pattern	Irregular, Wandering				Morphology Code	RP				
Coupling	Decoupled				Bars	☒ None ☐ Mid ☐ Side ☐ Span ☐ Diag. ☐ Braid				
Confinement	Occasionally Confined				Abandoned channels	☐ B1	SWD	☐ D1	Extensive riffles	☐ C1
Islands	None				Homog. bed	☐ S1				

Site/Reach Card

Watershed Code 460-600600-63200-66200-0000-0000-000-000-000-000-000

Reach 2.0

Site # 341

Project Name Morice River Fish Inventory - 1999

Project Code 1710

Eroding banks ☐ B2 LWD ☐ D2 Minimal pool area ☐ C2 Sediment fingers ☐ S2
 Avulsions ☐ B3 LWD Jam(s) ☐ D3 Elevated mid chan bars ☐ C3 Sediment wedges ☐ S3
 Beaver dams ☐ O1 Mult. chan./braids ☐ C4 Extensive bars ☐ S4
 Dist. stone lines ☐ C5 Extensive scour ☐ S5

FEATURE

Type CV Height 2.9 Method GE Length 10 Method GE

Comments Slightly perched.

Photograph Roll 4 Frame 12 UTM (Zone/East/North/ Method) 9 610758 5990014 GIS

HABITAT QUALITY

FSZs Side Chan ☒ Flood/Beaver ☒

Trips ☒ Flood Chan ☒ Slough ☒

Name Comments
 Spawning Habitat Excellent spawning habitat.
 Rearing Habitat Moderate, WRP project creates some rearing habitat.
 OverWinter Habitat Overwintering habitat is present in some of the deeper pools.

PHOTO DOCUMENTATION

Film	Compact Disc	Lens / Dir.	Comments
Roll 4 Fr 9 CD 2110 Im 108 STD D			Photo showing WRP work.
Roll 4 Fr 10 CD 2110 Im 109 STD U			Photo of notched wier. WRP.
Roll 4 Fr 12 CD 2110 Im 1110 STD U			Photo showing slightly perched culvert.

WILDLIFE

COMMENT

Form	Section	Comments
SITE	SITE CARD	C1 - S2 classification.
SITE	SITE CARD	C2 - CT and DV captured at this site.
SITE	SITE CARD	C2 - Erosion at the roadside loads road material into creek at the culvert.
SITE	SITE CARD	C6 - FC# 016254

FDIS Fish Form

Watershed Code 460-600600-63200-66200-0000-0000-000-000-000-000-000

Reach # 2.0

ILP #

ILP Map #

Project Name Morice River Fish Inventory - 1999

Project Code 1710

Lake/Stream	S	SITE/METHOD	Waterbody ID
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Permit 34770-20 Date: 1999/08/17 To: 1999/08/17 Crew: JD/JA Resample ☐

Site	NID MAP	NID	UTM:Zone/East/North/ Mthd	MTD/NO	Temp	Cond	Turbid	Comment
341	93L.004	40041	9 610726 5989760	EF 1	9.0	90	C	

GEAR SETTINGS

Site	MTD/NO	H/P	Date In	Time In	Date Out	Time Out	Comment
341	EF 1	1	1999/08/17	09:35	1999/08/17	10:20	

NET/TRAP SPECIFICATIONS

ELECTROFISHER SPECIFICATIONS

Site	MTD/NO	H/P	Encl	Sec.	Length	Width	Volts	Hz	Pulse	Make	Model
341	EF 1	1	O	110	100.0	5.1	600	60	8-0.4	SR	12-B

FISH SUMMARY

Site	MTD/NO	H/P	Species	Stage	Age	Total #	Lgth (Min/Max)	Activity	Comment
341	EF 1	1	CT	F	0	10	22 32	R	
341	EF 1	1	CT	J		5	89 126	R	
341	EF 1	1	DV	J		1	90 90	R	
341	EF 1	1	CT	J		3	105 117	R	

INDIVIDUAL FISH DATA

Site	MTD/NO	H/P	Species	Length (mm)	Weight (g)	Sex	Mat	Age	Str / Smpl# / Age	Vch#	Genetic	Str/ Smpl#	Photograph	Roll Fr.	Comment
341	EF 1	1	CT	26		U	U								
341	EF 1	1	CT	22		U	U								
341	EF 1	1	CT	31		U	U								
341	EF 1	1	CT	27		U	U								
341	EF 1	1	CT	28		U	U								
341	EF 1	1	CT	32		U	U								
341	EF 1	1	CT	26		U	U								
341	EF 1	1	CT	29		U	U								
341	EF 1	1	CT	105		U	U								
341	EF 1	1	CT	96		U	U								
341	EF 1	1	CT	126		U	U							4 11	
341	EF 1	1	CT	110		U	U							4 11	
341	EF 1	1	CT	89		U	U								
341	EF 1	1	CT	90		U	U								
341	EF 1	1	CT	116		U	U	SC	1082						
341	EF 1	1	CT	105		U	U	SC	1083						
341	EF 1	1	CT	117		U	U	SC	1084						
341	EF 1	1	CT	29		U	U								
341	EF 1	1	CT	25		U	U								

COMMENTS

Section WATERBODY Comments Quit shocking due to the large #s of fry



Photo #: 4 - 9
Site 341, looking downstream at WRP project.



Photo #: 4 - 12
Site 341, looking upstream at culvert 2.9m with slight prop.



Photo #: 4 - 10
Site 341, looking upstream at WRP notched weir.



Photo #: 4 - 11
Site 341, photo of a 126 mm and a 110 mm cutthroat trout.

Site/Reach Card

Watershed Code 460-600600-63200-66200-3100-0000-000-000-000-000-000

Reach 2.0
Site # 342

Project Name Morice River Fish Inventory - 1999

Project Code 1710

REACH ATTRIBUTES									
Length (km)	.66	Elevation (m): upstream	897	downstream	882	UTM (Zone/East/North/ method)			
Gradient (%)	2.3	Order	2	Magnitude	3	BGC Zone	SBS	9	609954 5988538 GIS
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	Occasionally Confined		Exposed/Eroded		NONE		Width (m)	☐	
Coupling	Decoupled		Islands		NONE		Beaver Dam(s)	☐	
Channel Pattern	Sinuous		Landuse		Not Specified		LWD jam(s)	☐	
Riparian Vegetation	Coniferous		Valley Flat		Valley flat on both; also if valley flat present		(C)ontinuous	☐	
							(D)iscontinuous	☐	

SITE									
Gazetted Name					Local Name	Unnamed			
Survey Date	1999/08/17	Time	10:30	Agency:	C151				
Crew	JA.JD	Access	V4	MAP UTM (Zone/East/North/Method)	9	610361	5988914	GIS	
Site Length (m)	400	Method	HC	Fish Card	☒ Incomplete ☐	NID Map	93L.004	NID #	40042

CHANNEL											
Channel Widths (m)	0.9	0.9	1.2	1.4	0.8	0.9	Average	1.0	Method(s)	T	
Wetted Widths (m)	0.5	0.5	1.0	0.9	0.4	0.8		0.7		T	
Resid. Pool Depths (m)	0.09	0.11	0.07	0.06	0.09	0.15		0.09		T	
No Vis.Ch.	☐	Dewatered	☐	Gradients (%)		2.0	3.0	3.0	2.0	2.5	C, C
Intermittent	☐	Tributaries	☐	Bankfull Depth (m)		0.3	0.3	0.3		0.3	MS

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	Sub-Dominant	Trace	Dominant	Trace
Crown Closure	1-20%	LEFT BANK			RIGHT BANK			
		Shape Overhanging bank			Shape V - shaped (steep sloping or vertical)			
		Riparian Veg. Coniferous			Riparian Veg. Deciduous			
		Riparian Stage Mature forest			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	10	Method	T3	pH	7.2	Method	P1	EMS #	
Conductivity	70	Method	S3	Turbidity	☐ Turbid ☐ Medium ☐ Light ☒ Clear	Method	GE		

MORPHOLOGY									
BED	Dominant Cobble			D95(cm) (only 5%larger)			30		
MATERIAL	Subdominant Gravels			D (cm) (moveable)			5		
Channel Pattern	Irregular, Wandering			Morphology Code RP			Bars ☒ None ☐ Mid ☐ Side ☐ Span ☐ Diag. ☐ Braid		
Coupling	Decoupled								
Confinement	Occasionally Confined								
Islands	None			Abandoned channels ☐ B1			SWD ☐ D1		
				Extensive riffles ☐ C1			Homog. bed ☐ S1		

Site/Reach Card

Watershed Code 460-600600-63200-66200-3100-0000-000-000-000-000-000

Reach 2.0

Site # 342

Project Name Morice River Fish Inventory - 1999

Project Code 1710

Eroding banks ☐ B2	LWD ☐ D2	Minimal pool area ☐ C2	Sediment fingers ☐ S2
Avulsions ☐ B3	LWD Jam(s) ☐ D3	Elevated mid chan bars ☐ C3	Sediment wedges ☐ S3
		Mult. chan./braids ☐ C4	Extensive bars ☐ S4
Beaver dams ☐ O1		Dist. stone lines ☐ C5	Extensive scour ☐ S5

FEATURE**HABITAT QUALITY**

FSZs

Side Chan ☒Flood/Beaver ☒Tribes ☒Flood Chan ☒Slough ☒

Name	Comments
Rearing Habitat	No rearing habitat - limited by low flows
Spawning Habitat	No spawning habitat - limited by low flows
OverWinter Habitat	No overwintering habitat present

PHOTO DOCUMENTATION

Film	Compact Disc	Lens / Dir.	Comments
Roll 4 Fr 13 CD 2110 Im 112 STD U	Site 342, looking upstream at cobble gravel substrate.		
Roll 4 Fr 14 CD 2110 Im 113 STD D	Site 342, looking downstream at cobble gravel substrate.		

WILDLIFE**COMMENT**

Form	Section	Comments
SITE	CHANNEL	C1, S4
SITE	CHANNEL	C2, CT captured
SITE	SITE CARD	C6, FC# 16254

FDIS Fish Form

Watershed Code 460-600600-63200-66200-3100-0000-000-000-000-000-000

Reach # 2.0

ILP #

ILP Map #

Project Name Morice River Fish Inventory - 1999

Project Code 1710

Lake/Stream S SITE/METHOD Waterbody ID

Permit 34770-20 Date: 1999/08/17 To: 1999/08/17 Crew: JD/JA Resample ☐

Site	NID MAP	NID	UTM:Zone/East/North/ Mthd	MTD/NO	Temp	Cond	Turbid	Comment
342	93L.004	40042	9 610361 5988914	EF 1	10.0	70	C	

GEAR SETTINGS

Site	MTD/NO	H/P	Date In	Time In	Date Out	Time Out	Comment
342	EF 1	1	1999/08/17	10:30	1999/08/17	11:45	

NET/TRAP SPECIFICATIONS

ELECTROFISHER SPECIFICATIONS

Site	MTD/NO	H/P	Encl	Sec.	Length	Width	Volts	Hz	Pulse	Make	Model
342	EF 1	1	O	346	400.0	1.1	600	60	8	SR	12-B

FISH SUMMARY

Site	MTD/NO	H/P	Species	Stage	Age	Total #	Lgth (Min/Max)	Activity	Comment
342	EF	1 1	CT	F	0+	40	24 36	R	
342	EF	1 1	CT	J	1+	2	67 76	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.	
342	EF	1	1	CT	24		U	U				
342	EF	1	1	CT	36		U	U				
342	EF	1	1	CT	33		U	U				
342	EF	1	1	CT	76		U	U				
342	EF	1	1	CT	67		U	U				
342	EF	1	1	CT	29		U	U				

COMMENTS

FDIS Fish Form

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

Reach # 2.0

ILP # 1019

ILP Map # 93L.004

Project Name Morice River Fish Inventory - 1999

Project Code 1710

Lake / Stream	S	SITE / METHOD				Waterbody ID	
Permit	34770-20	Date:	1999/08/17	To:	1999/08/17	Crew:	JD/JA
		Resample					

Site	NID MAP	NID	UTM:Zone/East/North/ Mthd		MTD/NO	Temp	Cond	Turbid	Comment
342	93L.004	40042	9	610361 5988914	EF 1	10.0	70	C	

GEAR SETTINGS

Site	MTD/NO	H/P	Date In	Time In	Date Out	Time Out	Comment
342	EF 1	1	1999/08/17	10:30	1999/08/17	11:45	

NET/TRAP SPECIFICATIONS

ELECTROFISHER SPECIFICATIONS

Site	MTD/NO	H/P	Encl	Sec.	Length	Width	Volts	Hz	Pulse	Make	Model
342	EF 1	1	O	346	400.0	1.0	600	60	8	SR	12-B

FISH SUMMARY

Site	MTD/NO	H/P	Species	Stage	Age	Total #	Lgth (Min/Max)	Activity	Comment	
342	EF	1	1	CT	F	0+	4	24	36	R
342	EF	1	1	CT	J	1+	2	67	76	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
342	EF	1	1	CT	33	U	U					
342	EF	1	1	CT	24	U	U					
342	EF	1	1	CT	29	U	U					
342	EF	1	1	CT	36	U	U					
342	EF	1	1	CT	76	U	U					
342	EF	1	1	CT	67	U	U				4 15	

COMMENTS



Photo #: 4 - 14
Site 342, looking downstream at cobble gravel substrate.



Photo #: 4 - 13
Site 342, looking upstream at cobble gravel substrate.



Photo #: 4 - 15

Site 342, photo of a 76 mm cutthroat trout.

Site/Reach Card

Watershed Code 460-600600-63200-66200-0000-0000-000-000-000-000-000

Reach 6.0
Site # 343

Project Name Morice River Fish Inventory - 1999

Project Code 1710

REACH ATTRIBUTES										Sample Type	B	
Length (km)	1.29	Elevation (m): upstream	1060	downstream	959	UTM (Zone/East/North/ method)						
Gradient (%)	7.8	Order	2	Magnitude	3	BGC Zone	ESSF	9	611255	5986284	GIS	
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	NONE				Width (m)	☐		
Coupling	Decoupled			Islands	NONE				Beaver Dam(s)	☐		
Channel Pattern	Sinuous			Landuse	None/natural				LWD jam(s)	☐		
Riparian Vegetation	Shrubs			Valley Flat	No valley flat on either bank				(C)ontinuous	☐ N		
								(D)iscontinuous				

SITE												
Gazetted Name						Local Name	Unnamed					
Survey Date	1999/09/17	Time	12:40	Agency:	C151							
Crew	JA/JD	Access	V2	MAP UTM (Zone/East/North/Method)	9	611620	5986659	GIS				
Site Length (m)	400	Method	HC	Fish Card	☒ Incomplete	☐	NID Map	93L.004	NID #	40043		

CHANNEL											
Channel Widths (m)	0.9	0.9	0.8	0.7	1.1	0.9	Average	Method(s)			
Wetted Widths (m)	0.3	0.3	0.2	0.6	0.4	0.3	0.9	T			
Resid. Pool Depths (m)	0.05	0.04	0.07	0.08	0.10	0.12	0.3	T			
							0.08	T			
No Vis.Ch.	☐	Dewatered	☐	Gradients (%)	3.0	2.0	2.0	3.0	2.5	C, C	
Intermittent	☐	Tributaries	☐	Bankfull Depth (m)	0.2	0.2	0.2		0.2	T	

Stage	☒ Low											
	☐ Med.											
	☐ High											
Crown Closure	0%											
Instream Vegetation	☐ None	☐ Moss	☐ Algae	☒ Vasc.								
LEFT BANK		RIGHT BANK										
Shape Overhanging bank		Shape V - shaped (steep sloping or vertical)										
Riparian Veg. Shrubs		Riparian Veg. Shrubs										
Riparian Stage Shrub/herb stage		Riparian Stage Shrub/herb stage										
Texture ☒ Fines ☒ Gravel ☐ Cobble		Texture ☒ Fines ☒ Gravel ☐ Cobble										
☐ Boulder ☐ Rock ☐ Man Made		☐ Boulder ☐ Rock ☐ Man Made										

WATER										
Temperature	10	Method	T3	pH	7.1	Method	P2	EMS #		
Conductivity	60	Method	S3	Turbidity	☐ Turbid	☐ Medium	☐ Light	☒ Clear	Method	GE

MORPHOLOGY										
BED	Dominant	Gravels	D95(cm) (only 5% larger)	15						
MATERIAL	Subdominant	Cobble	D (cm) (moveable)	3						
Channel Pattern	Irregular, Wandering									
Coupling	Decoupled									
Confinement	Unconfined									
Islands	None									
Morphology Code					Bars					
RP					☒ None ☐ Mid					
					☐ Side ☐ Span					
					☐ Diag. ☐ Braid					
Abandoned channels	☐ B1	SWD	☐ D1	Extensive riffles	☐ C1	Homog. bed	☐ S1			

Site/Reach Card

Watershed Code 460-600600-63200-66200-0000-0000-000-000-000-000-000

Reach 6.0

Site # 343

Project Name Morice River Fish Inventory - 1999

Project Code 1710

Eroding banks ☐ B2	LWD ☐ D2	Minimal pool area ☐ C2	Sediment fingers ☐ S2
Avulsions ☐ B3	LWD Jam(s) ☐ D3	Elevated mid chan bars ☐ C3	Sediment wedges ☐ S3
		Mult. chan./braids ☐ C4	Extensive bars ☐ S4
Beaver dams ☐ O1		Dist. stone lines ☐ C5	Extensive scour ☐ S5

FEATURE

HABITAT QUALITY

FSZs

Side Chan ☒

Flood/Beaver ☒

Trips ☒

Flood Chan ☒

Slough ☒

Name	Comments
Rearing Habitat	No rearing habitat - low flows, ephemeral stream
Spawning Habitat	Poor spawning habitat
OverWinter Habitat	No overwintering habitat
Other	No access through seepage area

PHOTO DOCUMENTATION

Film	Compact Disc	Lens / Dir.	Comments
Roll 4 Fr 16 CD 2110 Im 115 STD D			Site 343, looking downstream at gravel substrate within cutblock.
Roll 4 Fr 17 CD 2110 Im 116 STD D			Site 343, looking downstream at spot where channel disperses and stream seeps into wet area.

WILDLIFE

COMMENT

Form	Section	Comments
SITE	CHANNEL	C1 S6/S4
SITE	CHANNEL	C2, No fish above seepage area, lake d/s defaults lower portion to fish bearing
SITE	SITE CARD	C6 - NA

FDIS Fish Form

Watershed Code 460-600600-63200-66200-0000-0000-000-000-000-000-000

Reach # 6.0

ILP #

ILP Map #

Project Name Morice River Fish Inventory - 1999

Project Code 1710

Lake / Stream: S		SITE/METHOD		Waterbody ID	
Permit	34770-20	Date:	1999/08/17	To:	1999/08/17
Crew: JA/JD				Resample ☐	
Site	NID MAP	NID	UTM:Zone/East/North/ Mthd	MTD/NO	Temp
343	93L.004	40043	9 611620 5986659	EF 1	10.0
				60	C
GEAR SETTINGS					
Site	MTD/NO	H/P	Date In	Time In	Date Out
343	EF 1	1	1999/08/17	12:40	1999/08/17
				13:30	
NET/TRAP SPECIFICATIONS					
ELECTROFISHER SPECIFICATIONS					
Site	MTD/NO	H/P	Encl	Sec.	Length
343	EF 1	1	O	297	400.0
				1.0	600
				60	8
				SR	12-B
FISH SUMMARY					
Site	MTD/NO	H/P	Species	Stage	Age
343	EF	1 1	NFC		0
INDIVIDUAL FISH DATA					
COMMENTS					



Photo #: 4 - 17

Site 343, looking downstream at channel disperses and stream seeps into wet area.



Photo #: 4 - 16

Site 343, looking downstream at gravel substrate within cutblock.

Site/Reach Card

Watershed Code 460-600600-63200-75900-0000-0000-000-000-000-000-000

Reach 1.0
Site # 344

Project Name Morice River Fish Inventory - 1999

Project Code 1710

REACH ATTRIBUTES									
Length (km)	.96	Elevation (m): upstream	898	downstream	797	UTM (Zone/East/North/ method)	9 612748 5989957 GIS		
Gradient (%)	10.5	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	Frequently Confined		Exposed/Eroded		NONE		Width (m)		
Coupling	Partially Coupled		Islands		NONE		Beaver Dam(s)	☐	
Channel Pattern	Sinuous		Landuse		Logging, with reserves		LWD jam(s)	☐	
Riparian Vegetation	Deciduous		Valley Flat		No valley flat on either bank		(C)ontinuous	☐	
							(D)iscontinuous	☐	

SITE									
Gazetted Name					Local Name	Unnamed			
Survey Date	1999/08/17	Time	14:00	Agency:	C151				
Crew	JD/JA	Access	V4	MAP UTM (Zone/East/North/Method)	9	612684	5990194	GIS	
Site Length (m)	400	Method	NS	Fish Card	☒ Incomplete	☐	NID Map	93L.004	NID # 40044

CHANNEL											
Channel Widths (m)	3.6	4.2	3.0	3.5	4.3	3.2	Average	Method(s)			
Wetted Widths (m)	0.8	0.9	0.8	0.5	0.6	0.6	3.6	MS			
Resid. Pool Depths (m)	0.42	0.16	0.29	0.57	0.19	0.28	0.7	MS			
							0.32	MS			
No Vis.Ch.	☐	Dewatered	☐	Gradients (%)		4.0	5.0	3.0	4.0	4.0	C, C
Intermittent	☐	Tributaries	☐	Bankfull Depth (m)		0.5	0.5	0.6	0.5	0.5	MS

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

WATER									
Temperature	10	Method	T3	pH	6.8	Method	P2	EMS #	
Conductivity	70	Method	S3	Turbidity	☐ Turbid ☐ Medium ☐ Light ☒ Clear	Method		GE	

MORPHOLOGY									
BED	Dominant	Cobble	D95(cm) (only 5% larger)		40				
MATERIAL	Subdominant	Gravels	D (cm) (moveable)		25				
Channel Pattern	Sinuous		Morphology Code		RP		Bars		
Coupling	Partially Coupled						☒ None ☐ Mid		
Confinement	Occasionally Confined						☐ Side ☐ Span		
Islands	None						☐ Diag. ☐ Braid		
Abandoned channels	☐ B1	SWD	☐ D1	Extensive riffles	☐ C1	Homog. bed	☐ S1		

Site/Reach Card

Watershed Code 460-600600-63200-75900-0000-0000-000-000-000-000-000

Reach 1.0

Site # 344

Project Name Morice River Fish Inventory - 1999

Project Code 1710

Eroding banks ☐ B2	LWD ☐ D2	Minimal pool area ☐ C2	Sediment fingers ☐ S2
Avulsions ☐ B3	LWD Jam(s) ☐ D3	Elevated mid chan bars ☐ C3	Sediment wedges ☐ S3
		Mult. chan./braids ☐ C4	Extensive bars ☐ S4
Beaver dams ☐ O1		Dist. stone lines ☐ C5	Extensive scour ☐ S5

FEATURE

Type CV Height 1.0 Method GE Length 12 Method GE

Comments Culvert .8m deep - barrier to u/s fish migration also a velocity barrier at low flows.

Photograph Roll 4 Frame 18 UTM (Zone/East/North/ Method) 9 612679 5990406 GIS

HABITAT QUALITY

FSZs

Side Chan ☒

Flood/Beaver ☒

Trips ☒

Flood Chan ☒

Slough ☒

PHOTO DOCUMENTATION

Film	Compact Disc	Lens / Dir.	Comments
Roll 4 Fr 18 CD 2110 Im 117 STD U	Site 344, looking upstream at culvert perched 80cm, barrier during low flows.		
Roll 4 Fr 19 CD 2110 Im 118 STD U	Site 344, looking upstream at LWD Cascade.		
Roll 4 Fr 20 CD 2110 Im 119 STD D	Site 344, looking downstream at cobble substrate.		

WILDLIFE

COMMENT

Form	Section	Comments
SITE	CHANNEL	C1, S3
SITE	CHANNEL	C2, CT captured
SITE	SITE CARD	C6, FC# 16525

FDIS Fish Form

Watershed Code 460-600600-63200-75900-0000-0000-000-000-000-000-000

Reach # 1.0

ILP #

ILP Map #

Project Name Morice River Fish Inventory - 1999

Project Code 1710

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

Permit 34770-20 Date: 1999/08/17 To: 1999/08/17 Crew: JD/JA Resample ☐

Site	NID MAP	NID	UTM:Zone/East/North/ Mthd	MTD/NO	Temp	Cond	Turbid	Comment
344	93L.004	40044	9 612684 5990194	EF 1	10.0	70	C	

GEAR SETTINGS

Site	MTD/NO	H/P	Date In	Time In	Date Out	Time Out	Comment
344	EF 1	1	1999/08/17	14:00	1999/08/17	14:45	

NET/TRAP SPECIFICATIONS

ELECTROFISHER SPECIFICATIONS

Site	MTD/NO	H/P	Encl	Sec.	Length	Width	Volts	Hz	Pulse	Make	Model
344	EF 1	1	O	296	400.0	3.1	600	60	8	SR	12-B

FISH SUMMARY

Site	MTD/NO	H/P	Species	Stage	Age	Total #	Lgth (Min/Max)	Activity	Comment
344	EF 1	1	CT	F	0+	1	31	31	R
344	EF 1	1	CT	J	2+	3	120	137	R

INDIVIDUAL FISH DATA

Site	MTD/NO	H/P	Species	Length (mm)	Weight (g)	Sex	Mat	Age	Str / Smpl# / Age	Vch#	Genetic	Str/ Smpl#	Photograph	Roll Fr.	Comment
344	EF 1	1	CT	31		U	U								
344	EF 1	1	CT	120		U	U								
344	EF 1	1	CT	137		U	U								
344	EF 1	1	CT	131		U	U								

COMMENTS

Section	Comments
WATERBODY	Most shocking performed above CV - very few fish captured upstream. Fish captured easily downstream.



Photo #: 4 - 20
Site 344, looking downstream at cobble substrate.



Photo #: 4 - 18
Site 344, looking upstream at culvert perched 80 cm, barrier during low flows.



Photo #: 4 - 19
Site 344, looking upstream at LWD Cascade.

Watershed Code 460-600600-63200-75900-0000-0000-000-000-000-000-000

Site # 345

Project Code 1710

REACH ATTRIBUTES										Sample Type	B
Length (km)	.41	Elevation (m): upstream	955	downstream	940	UTM (Zone/East/North/ method)					
Gradient (%)	3.7	Order 2	Magnitude 2	BGC Zone	SBS	9	613922	5988798	GIS		
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	Frequently Confined		Exposed/Eroded	NONE			Width (m)				
Coupling	Partially Coupled		Islands	NONE			Beaver Dam(s)				
Channel Pattern	Straight		Landuse	None/natural			LWD jam(s)				
Riparian Vegetation	Mixed C/D		Valley Flat	No valley flat on either bank			(C)ontinuous		N		
							(D)iscontinuous				

Gazetted Name		Local Name		Unnamed	
Survey Date	1999/08/15	Time	08:10	Agency: C151	
Crew	JA/JD	Access	V4	MAP UTM (Zone/East/North/Method) 9 613853 5989009 GIS	
Site Length (m)	400	Method	HC	Fish Card ☒ Incomplete ☐	NID Map 93L.004 NID # 40045

							Average	Method(s)
Channel Widths (m)	1.3	1.7	1.6	1.2	1.4	1.5	1.4	T
Wetted Widths (m)	1.2	1.1	1.4	1.1	1.0	1.1	1.2	T
Resid. Pool Depths (m)	0.41	0.36	0.29	0.21	0.40	0.28	0.32	T

No Vis.Ch.	☐	Dewatered	☐					
Intermittent	☐	Tributaries	☐					

Gradients (%)	4.0	6.0	5.0	6.0	5.2	C, C
Bankfull Depth (m)	0.5	0.5	0.4		0.5	MS

Stage ☐ Low
☒ Med.
☐ High

COVER -		Total	Abundant	LWD	Few	Dist.	Clumped
SWD	LWD	Boulder	Cutbank	Deep Pool	Over Veg	Instream Veg	
Trace	Sub-Dominant	Sub-Dominant	Dominant	Trace	Sub-Dominant		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. Shrubs
 Riparian Stage Shrub/herb stage
 Texture ☒ Fines ☒ Gravel ☐ Cobble
☐ Boulder ☐ Rock ☐ Man Made

Temperature	10	Method T3	pH	7.1	Method P2	EMS #
Conductivity	40	Method S3	Turbidity	☐ Turbid ☐ Medium ☐ Light ☒ Clear	Method GE	

BED	Dominant Cobble	D95(cm) (only 5%larger)	45
MATERIAL	Subdominant Gravels	D (cm) (moveable)	5
Channel Pattern	Irregular, Wandering		
Coupling	Partially Coupled		
Confinement	Occasionally Confined		
Islands	None		
Morphology Code RP		Bars ☒ None ☐ Mid ☐ Side ☐ Span ☐ Diag. ☐ Braid	
Abandoned channels	☐ B1	SWD	☐ D1
		Extensive riffles	☐ C1
		Homog. bed	☐ S1

Site/Reach Card

Watershed Code 460-600600-63200-75900-0000-0000-000-000-000-000-000

Reach 3.0

Site # 345

Project Name Morice River Fish Inventory - 1999

Project Code 1710

Eroding banks ☐ B2	LWD ☐ D2	Minimal pool area ☐ C2	Sediment fingers ☐ S2
Avulsions ☐ B3	LWD Jam(s) ☐ D3	Elevated mid chan bars ☐ C3	Sediment wedges ☐ S3
		Mult. chan./braids ☐ C4	Extensive bars ☐ S4
Beaver dams ☐ O1	Dist. stone lines ☐ C5		Extensive scour ☐ S5

FEATURE			
HABITAT QUALITY		FSZs	Side Chan ☒
		Tribes ☒	Flood/Beaver ☒
			Flood Chan ☒
			Slough ☒

Name	Comments
Rearing Habitat	Good rearing habitat - plenty of cover and adequate flow
Spawning Habitat	Fair spawning habitat - substrate suitable for spawning is present
OverWinter Habitat	No overwintering habitat

PHOTO DOCUMENTATION						
Film	Compact Disc	Lens / Dir.	Comments			
Roll 4	Fr 21 CD 2110	Im 120 STD D	Site 345, looking downstream at leaning sub-alpine fir, channel below.			
Roll 4	Fr 22 CD 2110	Im 121 STD U	Site 345, looking upstream at tailout of a large pool.			

WILDLIFE

COMMENT		
Form	Section	Comments
SITE	CHANNEL	C1, S4
SITE	CHANNEL	C2, No fish caught - habitat suitable for fish. Fish captured in reach 1. Perched CV may reduce density on CT in The reaches above R1. No overwintering habitat
SITE	SITE CARD	C6, FC# 16251

FDIS Fish Form

Watershed Code 460-600600-63200-75900-0000-0000-000-000-000-000-000

Reach # 3.0

ILP #

ILP Map #

Project Name Morice River Fish Inventory - 1999

Project Code 1710

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

Permit 34770-20 Date: 1999/08/18 To: 1999/08/18 Crew: JA/JD Resample ☒

Site NID MAP NID UTM:Zone/East/North/ Mthd MTD/NO Temp Cond Turbid Comment

345 93L.004 40045 9 613853 5989009 EF 1 10.0 40 C

GEAR SETTINGS							
---------------	--	--	--	--	--	--	--

Site MTD/NO H/P Date In Time In Date Out Time Out Comment

345 EF 1 1 1999/08/18 08:10 1999/08/18 09:20

NET/TRAP SPECIFICATIONS							
-------------------------	--	--	--	--	--	--	--

ELECTROFISHER SPECIFICATIONS											
------------------------------	--	--	--	--	--	--	--	--	--	--	--

Site	MTD/NO	H/P	Encl	Sec.	Length	Width	Volts	Hz	Pulse	Make	Model
345	EF	1	1	O	349	400.0	1.4	600	60	8	SR 12-B

FISH SUMMARY											
--------------	--	--	--	--	--	--	--	--	--	--	--

Site MTD/NO H/P Species Stage Age Total # Lgth (Min/Max) Activity Comment

345 EF 1 1 NFC 0

INDIVIDUAL FISH DATA											
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COMMENTS											
----------	--	--	--	--	--	--	--	--	--	--	--

Section

Comments

WATERBODY

Resample Reach 1 for barriers.



Photo #: 4 - 21

Site 345, looking downstream at leaning sub-alpine fir, channel below.



Photo #: 4 - 22

Site 345, looking upstream at tailout of a large pool.

Site/Reach Card

Watershed Code 460-600600-63200-66200-5580-0000-000-000-000-000-000

Reach 1.0
Site # 346

Project Name Morice River Fish Inventory - 1999

Project Code 1710

REACH ATTRIBUTES										Sample Type	B	
Length (km)	1.11	Elevation (m): upstream	955	downstream	936	UTM (Zone/East/North/ method)						
Gradient (%)	1.7	Order	1	Magnitude	1	BGC Zone	SBS	9	612647	5987988	GIS	
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	NONE				Width (m)	☐
Coupling	Decoupled					Islands	NONE				Beaver Dam(s)	☐
Channel Pattern	Sinuous					Landuse	None/natural				LWD Jam(s)	☐
Riparian Vegetation	Deciduous					Valley Flat	No valley flat on either bank				(C)ontinuous	☐ N
										(D)iscontinuous		

SITE											
Gazetted Name						Local Name	Unnamed				
Survey Date	1999/08/18	Time	09:40	Agency:	C151						
Crew	JD/JA	Access	V4	MAP UTM (Zone/East/North/Method)	9	612351	5987956	GIS			
Site Length (m)	500	Method	NS	Fish Card	☒ Incomplete	☐	NID Map	93L.004	NID #	40046	

CHANNEL										
Channel Widths (m)	1.6	1.7	1.9	1.4	1.5	1.4	Average	1.6	Method(s)	MS
Wetted Widths (m)	1.0	0.7	0.4	1.2	1.2	1.2		0.9		MS
Resid. Pool Depths (m)	0.16	0.15	0.14	0.12	0.13	0.08		0.13		MS
No Vis.Ch.	☐	Dewatered	☐	Gradients (%)	1.0	2.0	2.0	1.0	1.5	C, C
Intermittent	☐	Tributaries	☐	Bankfull Depth (m)	0.2	0.3	0.3		0.3	MS

COVER -									
Stage	☐ Low	☒ Med.	☐ High	Total	Abundant	LWD	Few	Dist.	Evenly Distributed
				SWD	LWD	Boulder	Cutbank	Deep Pool	Over Veg
				Trace	Trace	None	Sub-Dominant	None	Dominant
									Sub-Dominant
Crown Closure	1-20%			LEFT BANK			RIGHT BANK		
Instream Vegetation	☐ None ☒ Moss ☐ Algae ☒ Vasc.			Shape Overhanging bank			Shape Overhanging bank		
				Riparian Veg. Deciduous			Riparian Veg. Deciduous		
				Riparian Stage Pole-sapling stage			Riparian Stage Pole-sapling stage		
				Texture ☒ Fines ☐ Gravel ☐ Cobble			Texture ☒ Fines ☐ Gravel ☐ Cobble		
				☐ Boulder ☐ Rock ☐ Man Made			☐ Boulder ☐ Rock ☐ Man Made		

WATER									
Temperature	10	Method	T3	pH	6.8	Method	P1	EMS #	
Conductivity	50	Method	S3	Turbidity	☐ Turbid ☐ Medium ☐ Light ☒ Clear	Method	GE		

MORPHOLOGY									
BED	Dominant Fines			D95(cm) (only 5%larger)	30				
MATERIAL	Subdominant Cobble			D (cm) (moveable)	1				
Channel Pattern	Irregular, Wandering			Morphology Code	RP				
Coupling	Decoupled			Bars	☒ None ☐ Mid				
Confinement	Unconfined				☐ Side ☐ Span				
Islands	None				☐ Diag. ☐ Braid				
Abandoned channels	☐ B1	SWD	☐ D1	Extensive riffles	☐ C1	Homog. bed	☐ S1		

Site/Reach Card

Watershed Code 460-600600-63200-66200-5580-0000-000-000-000-000-000

Reach 1.0

Site # 346

Project Name Morice River Fish Inventory - 1999

Project Code 1710

Eroding banks ☐ B2	LWD ☐ D2	Minimal pool area ☐ C2	Sediment fingers ☐ S2
Avulsions ☐ B3	LWD Jam(s) ☐ D3	Elevated mid chan bars ☐ C3	Sediment wedges ☐ S3
		Mult. chan./braids ☐ C4	Extensive bars ☐ S4
Beaver dams ☐ O1		Dist. stone lines ☐ C5	Extensive scour ☐ S5

FEATURE

HABITAT QUALITY

FSZs ☐

Side Chan ☒

Flood/Beaver ☒

Tribes ☒

Flood Chan ☒

Slough ☒

Name	Comments
Rearing Habitat	Poor rearing habitat
Spawning Habitat	No spawning habitat
OverWinter Habitat	No overwintering habitat
Other	No fish habitat above swamp NVC channel starts below wetland.

PHOTO DOCUMENTATION

Film	Compact Disc	Lens / Dir.	Comments
Roll 4 Fr 23 CD 2110 Im 122 STD U			Site 346, looking upstream at overstream vegetation.
Roll 4 Fr 24 CD 2110 Im 123 STD D			Site 346, looking downstream at overstream vegetation.

WILDLIFE

COMMENT

Form	Section	Comments
SITE	CHANNEL	C1, NVC/S6
SITE	CHANNEL	C2, Upper portion of this reach is NVC, lower portion has a poorly defined channel
SITE	SITE CARD	C6, FC# 16260

FDIS Fish Form

Watershed Code 460-600600-63200-66200-5580-0000-000-000-000-000-000

Reach # 1.0

ILP #

ILP Map #

Project Name Morice River Fish Inventory - 1999

Project Code 1710

Lake / Stream		S		SITE/METHOD				Waterbody ID				
Permit	34770-20			Date:	1999/08/19		To:	1999/08/19		Crew:	JD/JA	
												Resample
Site	NID MAP	NID	UTM:Zone/East/North/ Mthd		MTD/NO	Temp	Cond	Turbid	Comment			
346	93L.004	40046	9	612351 5987956	EF 1	10.0	50	C				
GEAR SETTINGS												
Site	MTD/NO	H/P	Date In	Time In	Date Out	Time Out	Comment					
346	EF 1	1	1999/08/19	08:00	1999/08/19	09:30						
NET/TRAP SPECIFICATIONS												
ELECTROFISHER SPECIFICATIONS												
Site	MTD/NO	H/P	Encl	Sec.	Length	Width	Volts	Hz	Pulse	Make	Model	
346	EF 1	1	O	421	400.0	1.8	600	60	6	SR	12-B	
FISH SUMMARY												
Site	MTD/NO	H/P	Species	Stage	Age	Total #	Lgth (Min/Max)	Activity	Comment			
346	EF	1 1	NFC			0						
INDIVIDUAL FISH DATA												
COMMENTS												



Photo #: 4 - 24
Site 346, looking downstream at overstream vegetation.



Photo #: 4 - 23
Site 346, looking upstream at overstream vegetation.

Site/Reach Card

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

Reach 2.0
Site # 347

ILP # 1050
ILP Map # 93L.004

Project Name Morice River Fish Inventory - 1999

Project Code 1710

REACH ATTRIBUTES										Sample Type	R	
Length (km)	1.18	Elevation (m): upstream	1003	downstream	965	UTM (Zone/East/North/ method)						
Gradient (%)	3.2	Order	1	Magnitude	1	BGC Zone	SBS	9	617828	598702	GIS	
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	NONE				Width (m)	☐		
Coupling	Decoupled			Islands	NONE				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	1999/08/19	Time	09:40	Agency:	C151					
Crew	JA/JD	Access	V4	MAP UTM (Zone/East/North/Method)	9	617330	5986876	GIS		
Site Length (m)	400	Method	HC	Fish Card	☒ Incomplete	☐	NID Map	93L.004	NID #	40047

CHANNEL										Average	Method(s)		
Channel Widths (m)	1.3	1.5	1.6	1.2	1.3	1.5				1.4	MS		
Wetted Widths (m)	1.1	1.1	1.1	1.1	0.9	0.8				1.0	MS		
Resid. Pool Depths (m)	0.08	0.07	0.11	0.06	0.15	0.07				0.09	MS		
No Vis.Ch.	☐	Dewatered	☐	Gradients (%)				2.0	3.0	1.5	2.0	2.1	C, C
Intermittent	☐	Tributaries	☐	Bankfull Depth (m)				0.3	0.3	0.3		0.3	MS

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	ub-Dominant	None	Dominant	ub-Dominant
Crown Closure	21-40%									
Instream Vegetation	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	10	Methoc	T3	pH	6.8	Method	P2	EMS #		
Conductivity	60	Method	S3	Turbidity	☐ Turbid	☐ Medium	☐ Light	☒ Clear	Method	GE

MORPHOLOGY									
BED	Dominant Fines				D95(cm) (only 5% larger)	15			
MATERIAL	Subdominant Gravels				D (cm) (moveable)	1			
Channel Pattern	Irregular, Wandering								
Coupling	Decoupled								
Confinement	Unconfined								
Islands	None								
Morphology Code					Bars ☒ None ☐ Mid ☐ Side ☐ Span ☐ Diag. ☐ Braid				
RP									

Site/Reach Card

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

Reach 2.0

ILP # 1050

Site # 347

ILP Map # 93L.004

Project Name Morice River Fish Inventory - 1999

Project Code 1710

Abandoned channel ☐ B1	SWD ☐ D1	Extensive riffle ☐ C1	Homog. be ☐ S1
Eroding bank ☐ B2	LWD ☐ D2	Minimal pool are ☐ C2	Sediment finger ☐ S2
Avulsion ☐ B3	LWD Jam(s) ☐ D3	Elevated mid chan bar ☐ C3	Sediment wedge ☐ S3
		Mult. chan./braid ☐ C4	Extensive bar ☐ S4
Beaver dam ☐ O1		Dist. stone line ☐ C5	Extensive sco ☐ S5

FEATURES**HABITAT QUALITY**FSZs ☐Side Chan ☐Flood/Beave ☐Tribes ☐Flood Cha ☐Sloug ☐

Name	Comments
Rearing Habitat	No rearing habitat - subsurface flows, vegetated channel
Spawning Habitat	No spawning habitat - no suitable substrate
OverWinter Habitat	No overwintering habitat - no pools >.5m in depth

PHOTO DOCUMENTATION

Film	Compact Disc	Lens / Dir.	Comments
Roll 4 Fr 25 CD 2110 Im 124 STD D	Site 347, looking downstream at blazed tree on right side.		
Roll 4 Fr 26 CD 2110 Im 125 STD U	Site 347, looking upstream at vegetated channel.		

WILDLIFE**COMMENTS**

Form	Section	Comments
SITE	CHANNEL	C1, S6 stream
SITE	CHANNEL	C2, No suitable habitat, lack of connection, no overwintering
SITE	SITE CARD	C6, FC# 16259

FDIS Fish Form

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

Reach # 2.0

ILP # 1050

ILP Map # 93L.004

Project Name Morice River Fish Inventory - 1999

Project Code 1710

Lake / Stream		S		SITE / METHOD				Waterbody ID			
Permit	34770-20	Date:	1999/08/19	To:	1999/08/19	Crew:	JD/JA	Resample ☐			
Site	NID MAP	NID	UTM:Zone/East/North/	Mthd	MTD/NO	Temp	Cond	Turbid	Comment		
347	93L.004	40047	9 617330 5986876		EF 1	10.0	60	C			
GEAR SETTINGS											
Site	MTD/NO	H/P	Date In	Time In	Date Out	Time Out	Comment				
347	EF 1	1	1999/08/19	09:40	1999/08/19	10:50					
NET/TRAP SPECIFICATIONS											
ELECTROFISHER SPECIFICATIONS											
Site	MTD/NO	H/P	Encl	Sec.	Length	Width	Volts	Hz	Pulse	Make	Model
347	EF 1	1	O	467	400.0	1.3	600	60	6	SR	15A
FISH SUMMARY											
Site	MTD/NO	H/P	Species	Stage	Age	Total #	Lgth (Min/Max)	Activity	Comment		
347	EF	1 1	NFC			0					
INDIVIDUAL FISH DATA											
COMMENTS											



Photo #: 4 - 25
 Site 347, looking downstream at blazed tree on right side.



Photo #: 4 - 26
 Site 347, looking upstream at vegetated channel.

Site/Reach Card

Watershed Code 460-600600-36400-88900-0000-0000-000-000-000-000-000

Reach 2.0
Site # 348

Project Name Morice River Fish Inventory - 1999

Project Code 1710

REACH ATTRIBUTES										Sample Type	B	
Length (km)	.89	Elevation (m): upstream	1001	downstream	980	UTM (Zone/East/North/ method)						
Gradient (%)	2.4	Order	1	Magnitude	1	BGC Zone	SBS	9	616753	5985805	GIS	
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	NONE			Width (m)		
Coupling	Partially Coupled					Islands	NONE			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	☒ N	
									(D)iscontinuous			

SITE												
Gazetted Name						Local Name	Unnamed					
Survey Date	1999/08/20	Time	08:30	Agency:	C151							
Crew	JD/JA	Access	V4	MAP UTM (Zone/East/North/Method)	9	616642	5986099	GIS				
Site Length (m)	300	Method	HC	Fish Card	☒ Incomplete	☐	NID Map	93L.004	NID #	40048		

CHANNEL										
Channel Widths (m)	1.5	1.6	1.2	1.1	1.9	1.4	Average	1.4	Method(s)	MS
Wetted Widths (m)	1.2	1.1	0.9	0.9	0.8	1.1		1.0		MS
Resid. Pool Depths (m)	0.23	0.41	0.21	0.21	0.09	0.17		0.22		MS
No Vis.Ch.	☐	Dewatered	☐	Gradients (%)	4.0	5.0	4.5	5.0	4.6	C, C
Intermittent	☐	Tributaries	☐	Bankfull Depth (m)	0.3	0.4	0.3		0.3	MS

COVER -										
Stage	☐ Low	Total	Abundant	LWD	Few	Dist.	Evenly Distributed			
	☒ Med.	SWD	LWD	Boulder	Cutbank	Deep Pool	Over Veg	Instream Veg		
	☐ High	Trace	Dominant	Trace	Trace	Trace	Sub-Dominant	Trace		
Crown Closure	1-20%	LEFT BANK				RIGHT BANK				
Instream Vegetation		Shape Sloping (gradual or shallow sloping)				Shape Sloping (gradual or shallow sloping)				
☐ None	☒ Moss	Riparian Veg. Deciduous				Riparian Veg. Coniferous				
☐ Algae	☒ Vasc.	Riparian Stage Pole-sapling stage				Riparian Stage Mature forest				
		Texture ☒ Fines ☒ Gravel ☐ Cobble				Texture ☒ Fines ☒ Gravel ☐ Cobble				
		☐ Boulder ☐ Rock ☐ Man Made				☐ Boulder ☐ Rock ☐ Man Made				

WATER										
Temperature	10	Method	T3	pH	6.9	Method	P2	EMS #		
Conductivity	60	Method	S3	Turbidity	☐ Turbid	☐ Medium	☐ Light	☒ Clear	Method	GE

MORPHOLOGY										
BED	Dominant	Cobble	D95(cm) (only 5% larger)	20						
MATERIAL	Subdominant	Gravels	D (cm) (moveable)	8						
Channel Pattern	Sinuous		Morphology Code	RP	Bars					
Coupling	Partially Coupled				☒ None ☐ Mid					
Confinement	Frequently Confined				☐ Side ☐ Span					
Islands	None				☐ Diag. ☐ Braid					
Abandoned channels	☐ B1	SWD	☐ D1	Extensive riffles	☐ C1	Homog. bed	☐ S1			

Site/Reach Card

Watershed Code 460-600600-36400-88900-0000-0000-000-000-000-000-000

Reach 2.0

Site # 348

Project Name Morice River Fish Inventory - 1999

Project Code 1710

Eroding banks ☐ B2	LWD ☐ D2	Minimal pool area ☐ C2	Sediment fingers ☐ S2
Avulsions ☐ B3	LWD Jam(s) ☐ D3	Elevated mid chan bars ☐ C3	Sediment wedges ☐ S3
		Mult. chan./braids ☐ C4	Extensive bars ☐ S4
Beaver dams ☐ O1		Dist. stone lines ☐ C5	Extensive scour ☐ S5

FEATURE**HABITAT QUALITY**

FSZs

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

Rearing Habitat

Good rearing habitat - abundant cover, numerous pools and adequate substrate

Spawning Habitat

Fair spawning habitat - lack of suitable substrate

OverWinter Habitat

No overwintering habitat - no pools >50cm

PHOTO DOCUMENTATION

Film	Compact Disc	Lens / Dir.	Comments
Roll 4 Fr 28 CD 2110 Im 127 STD U	Site 348, looking upstream at overstream vegetation, provides good cover.		
Roll 4 Fr 29 CD 2110 Im 128 STD D	Site 348, looking downstream at spanning LWD.		

WILDLIFE**COMMENT**

Form	Section	Comments
SITE	CHANNEL	C1, S4
SITE	CHANNEL	C2, CT captured
SITE	SITE CARD	C6, FC# 16258

FDIS Fish Form

Watershed Code 460-600600-36400-88900-0000-0000-000-000-000-000-000

Reach # 2.0

ILP #

ILP Map #

Project Name Morice River Fish Inventory - 1999

Project Code 1710

Lake/Stream S SITE/METHOD Waterbody ID

Permit 34770-20 Date: 1999/08/20 To: 1999/08/20 Crew: JD/JA Resample ☐

Site	NID MAP	NID	UTM:Zone/East/North/ Mthd	MTD/NO	Temp	Cond	Turbid	Comment
348	93L.004	40048	9 616642 5986099	EF 1	10.0	60	C	

GEAR SETTINGS

Site	MTD/NO	H/P	Date In	Time In	Date Out	Time Out	Comment
348	EF 1	1	1999/08/20	08:30	1999/08/20	09:20	

NET/TRAP SPECIFICATIONS

ELECTROFISHER SPECIFICATIONS

Site	MTD/NO	H/P	Encl	Sec.	Length	Width	Volts	Hz	Pulse	Make	Model
348	EF 1	1	O	121	100.0	1.4	600	60	6	SR	15A

FISH SUMMARY

Site	MTD/NO	H/P	Species	Stage	Age	Total #	Lgth (Min/Max)	Activity	Comment
348	EF	1 1	CT	F	0+	4	34 46	R	
348	EF	1 1	CT	J	1+	2	71 89	R	

INDIVIDUAL FISH DATA

Site	MTD/NO	H/P	Species	Length	Weight	Age		Genetic	Photograph	Comment
				(mm)	(g)	Sex	Mat			
348	EF	1	1	CT	37		U	U		
348	EF	1	1	CT	34		U	U		
348	EF	1	1	CT	39		U	U		
348	EF	1	1	CT	46		U	U		
348	EF	1	1	CT	71		U	U		
348	EF	1	1	CT	89		U	U		

COMMENTS



Photo #: 4 - 29
Site 348, looking downstream at spanning LWD.



Photo #: 4 - 28
Site 348, looking upstream at overstream vegetation, provides good cover.

Site/Reach Card

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

Reach 1.0

ILP # 1054

Site # 349

ILP Map # 93L.004

Project Name Morice River Fish Inventory - 1999

Project Code 1710

REACH ATTRIBUTES										Sample Type		
Length (km)	.21	Elevation (m): upstream	887	downstream	877	UTM (Zone/East/North/ method)						
Gradient (%)	4.8	Order	1	Magnitude	1	BGC Zone	SBS	9	617198	598997	GIS	
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	NONE			Width (m)	☐			
Coupling	Partially Coupled			Islands	NONE			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	1999/08/20	Time	12:30	Agency:	C151					
Crew	JA/JD	Access	V4	MAP UTM (Zone/East/North/Method)	9	617256	5989967	GIS		
Site Length (m)	200	Method	NS	Fish Card	☒ Incomplete	☐	NID Map	93L.004	NID #	40049

CHANNEL										
Channel Widths (m)	1.4	1.4	1.1	1.2	0.9	1.0	Average	1.2	Method(s)	MS
Wetted Widths (m)	0.8	0.9	0.7	0.6	0.7	0.7		0.7		MS
Resid. Pool Depths (m)	0.14	0.18	0.18	0.14	0.11	0.09		0.14		MS
No Vis.Ch.	☐	Dewatered	☐	Gradients (%)	3.0	4.0	3.5	3.0	3.4	C, C
Intermittent	☐	Tributaries	☐	Bankfull Depth (m)	0.3	0.3	0.3		0.3	MS

Stage	☐ Low	COVER -		Total	Abundant	LWD	Abundant	Dist.	Evenly Distributed
	☒ Med.	SWD	LWD	Boulder	Cutbank	Deep Pool	Over Veg	Instream Veg	
	☐ High	Trace	ub-Dominant	Trace	Trace	Trace	Dominant	Trace	
Crown Closure	21-40%	LEFT BANK				RIGHT BANK			
Instream Vegetation		Shape Sloping (gradual or shallow sloping)				Shape Overhanging bank			
☐ 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	10	Methoc	T3	pH	6.8	Method	P2	EMS #		
Conductivity	50	Method	S3	Turbidity	☐ Turbid	☐ Medium	☐ Light	☒ Clear	Method	GE

MORPHOLOGY									
BED	Dominant Cobble				D95(cm) (only 5%larger)	18			
MATERIAL	Subdominant Gravels				D (cm) (moveable)	4			
Channel Pattern	Irregular, Wandering				Morphology Code				
Coupling	Partially Coupled				RP				
Confinement	Occasionally Confined				Bars				
Islands	None				☒ 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 # 1054

Site # 349

ILP Map # 93L.004

Project Name Morice River Fish Inventory - 1999

Project Code 1710

Abandoned channel ☐ B1	SWD ☐ D1	Extensive riffle ☐ C1	Homog. be ☐ S1
Eroding bank ☐ B2	LWD ☐ D2	Minimal pool are ☐ C2	Sediment finger ☐ S2
Avulsion ☐ B3	LWD Jam(s) ☐ D3	Elevated mid chan bar ☐ C3	Sediment wedge ☐ S3
		Mult. chan./braid ☐ C4	Extensive bar ☐ S4
Beaver dam ☐ O1		Dist. stone line ☐ C5	Extensive sco ☐ S5

FEATURES

Type CV	Height 1.0	Method GE	Length 10	Method GE
Comments	Upper road crossing			
Photograph	Roll 4	Frame 30	UTM (Zone/East/North/ Method)	9 617293 598994 GIS

HABITAT QUALITY

FSZs ☐	Side Chan ☒	Flood/Beave ☒
Tribs ☒	Flood Cha ☒	Sloug ☒

Name	Comments
Rearing Habitat	Moderate rearing habitat - good amount of cover, many pools, limited by low flows
Spawning Habitat	Poor spawning habitat - lack of adequate substrate
OverWinter Habitat	Overwintering habitat present upstream - beaver pond

PHOTO DOCUMENTATION

Film	Compact Disc	Lens / Dir.	Comments
Roll 4	Fr 30 CD 2110	Im 129 STD U	Site 349, looking upstream at culvert 1m upper road crossing.
Roll 4	Fr 31 CD 2110	Im 130 STD U	Site 349, looking upstream at overstream vegetation.
Roll 4	Fr 32 CD 2110	Im 131 STD D	Site 349, looking downstream at blazed tree on right bank.
Roll 4	Fr 33 CD 2110	Im 132 STD D	Site 349, looking downstream at lower culvert 1m inlet.

WILDLIFE**COMMENTS**

Form	Section	Comments
SITE	CHANNEL	C1, S4
SITE	CHANNEL	C2, Fish stream based on access, beaver activity may prevent fish from gaining access to this reach
SITE	SITE CARD	C6, FC# 16273
SITE	CHANNEL	Lower portion of this reach has wetland characteristics.

FDIS Fish Form

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

Reach # 1.0

ILP # 1054

ILP Map # 93L.004

Project Name Morice River Fish Inventory - 1999

Project Code 1710

Lake/Stream	S	SITE/METHOD	Waterbody ID
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Permit 34770-20 Date: 1999/08/20 To: 1999/08/20 Crew: JD/JA Resample ☐

Site	NID MAP	NID	UTM:Zone/East/North/ Mthd	MTD/NO	Temp	Cond	Turbid	Comment
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349	93L.004	40049	9 617256 5989967	EF 1	10.0	50	C	
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GEAR SETTINGS							
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Site	MTD/NO	H/P	Date In	Time In	Date Out	Time Out	Comment
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349	EF 1	1	1999/08/20	12:30	1999/08/20	13:20	
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NET/TRAP SPECIFICATIONS											
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ELECTROFISHER SPECIFICATIONS											
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Site	MTD/NO	H/P	Encl	Sec.	Length	Width	Volts	Hz	Pulse	Make	Model
349	EF 1	1	O	142	200.0	1.0	600	60	6	SR	15A

FISH SUMMARY									
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Site	MTD/NO	H/P	Species	Stage	Age	Total #	Lgth (Min/Max)	Activity	Comment
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349	EF	1 1	NFC			0			
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INDIVIDUAL FISH DATA									
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COMMENTS									
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Photo #: 4 - 32
Site 349, looking downstream at blazed tree on right bank.



Photo #: 4 - 33
Site 349, looking downstream at lower culvert 1m inlet.



Photo #: 4 - 30
Site 349, looking upstream at culvert 1m upper road crossing.



Photo #: 4 - 31
Site 349, looking upstream at overstream vegetation.

Site/Reach Card

Watershed Code 460-600600-36400-00000-0000-0000-000-000-000-000-000

Reach 24.0

Site # 350

Project Name Morice River Fish Inventory - 1999

Project Code 1710

REACH ATTRIBUTES										Sample Type	B	
Length (km)	1.22	Elevation (m): upstream		973	downstream	951	UTM (Zone/East/North/ method)					
Gradient (%)	1.8	Order	1	Magnitude	5	BGC Zone	SBS	9	615068	5986156	GIS	
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	NONE			Width (m)		
Coupling	Decoupled					Islands	NONE			Beaver Dam(s)	☐	
Channel Pattern	Sinuous					Landuse	None/natural			LWD jam(s)	☐	
Riparian Vegetation	Deciduous					Valley Flat	No valley flat on either bank			(C)ontinuous	☒ N	
									(D)iscontinuous			

SITE											
Gazetted Name	LAMPREY CREEK					Local Name					
Survey Date	1999/08/20		Time	15:20		Agency:	C151				
Crew	JA/JD		Access	V4		MAP UTM (Zone/East/North/Method)	9	615843	5986585	GIS	
Site Length (m)	100		Method	NS		Fish Card	☒ Incomplete	☐	NID Map	93L.004	
									NID #	40050	

CHANNEL												
Channel Widths (m)	3.7	3.1	2.7	1.9	3.2	2.5	Average	2.8		Method(s)	T	
Wetted Widths (m)	3.2	3.0	2.1	1.7	3.0	2.0		2.5			T	
Resid. Pool Depths (m)	0.23	0.38	0.40	0.33	0.29	0.31		0.32			T	
No Vis.Ch.	☐	Dewatered	☐	Gradients (%)			3.0	4.0	4.0	3.0	3.5	C, C
Intermittent	☐	Tributaries	☐	Bankfull Depth (m)			0.7	0.7	0.6	0.7		MS

Stage		COVER -		Total	Abundant	LWD	Abundant	Dist.	Evenly Distributed
SWD	LWD	Boulder	Cutbank	Deep Pool	Over Veg	Instream Veg			
Trace	Dominant	None	Sub-Dominant	Trace	Sub-Dominant	Trace			
☐ Low	☐ Med.								
☒ High									
Crown Closure	21-40%								
Instream Vegetation	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	18	Method	T3	pH	7.6	Method	P2	EMS #		
Conductivity	70	Method	S3	Turbidity	☐ Turbid	☐ Medium	☐ Light	☒ Clear	Method	GE

MORPHOLOGY										
BED	Dominant Cobble			D95(cm) (only 5%larger)	20					
MATERIAL	Subdominant Gravels			D (cm) (moveable)	10					
Channel Pattern	Irregular, Wandering									
Coupling	Decoupled									
Confinement	Unconfined									
Islands	None									
Abandoned channels				☐ B1	SWD		☐ D1	Extensive riffles		☐ C1
				Homog. bed		☐ S1				

Site/Reach Card

Watershed Code 460-600600-36400-00000-00000-0000-000-000-000-000-000

Reach 24.0

Site # 350

Project Name Morice River Fish Inventory - 1999

Project Code 1710

Eroding banks ☐ B2	LWD ☐ D2	Minimal pool area ☐ C2	Sediment fingers ☐ S2
Avulsions ☐ B3	LWD Jam(s) ☐ D3	Elevated mid chan bars ☐ C3	Sediment wedges ☐ S3
		Mult. chan./braids ☐ C4	Extensive bars ☐ S4
Beaver dams ☐ O1		Dist. stone lines ☐ C5	Extensive scour ☐ S5

FEATURE

Type CV Height 1.0 Method GE Length 10 Method GE

Comments OLD WOODEN BOX CULVERT

Photograph Roll Frame UTM (Zone/East/North/ Method) 9 615938 5986628 GIS

HABITAT QUALITY

FSZs

Side Chan ☒

Flood/Beaver ☒

Trips ☒

Flood Chan ☒

Slough ☒

Name	Comments
Rearing Habitat	Excellent rearing habitat - abundant cover, adequate riffle pool complexes
Spawning Habitat	Good spawning habitat - gravel and flows accomdate spawning of salmonids
OverWinter Habitat	No overwintering habitat

PHOTO DOCUMENTATION

Film	Compact Disc	Lens / Dir.	Comments
Roll 4 Fr 34 CD 2110 Im 133 STD U			Site 350, looking upstream at LWD (spanning) and overstream vegetation.
Roll 4 Fr 35 CD 2110 Im 134 STD D			Site 350, looking downstream at LWD (spanning) and large pool.

WILDLIFE

COMMENT

Form	Section	Comments
SITE	CHANNEL	C1, S3
SITE	CHANNEL	C2, RB and CT captured
SITE	SITE CARD	C6, FC# 16274

FDIS Fish Form

Watershed Code 460-600600-36400-00000-0000-0000-000-000-000-000

Reach # 24.0

ILP #

ILP Map #

Project Name Morice River Fish Inventory - 1999

Project Code 1710

Lake / Stream S SITE / METHOD Waterbody ID

Permit 34770-20 Date: 1999/08/20 To: 1999/08/20 Crew: JD/JA Resample ☐

Site NID MAP NID UTM:Zone/East/North/ Mthd MTD/NO Temp Cond Turbid Comment

350 93L.004 40050 9 615843 5986585 EF 1 18.0 70 C

GEAR SETTINGS

Site MTD/NO H/P Date In Time In Date Out Time Out Comment

350 EF 1 1 1999/08/20 15:20 1999/08/20 16:10

NET/TRAP SPECIFICATIONS

ELECTROFISHER SPECIFICATIONS

Site MTD/NO H/P Encl Sec. Length Width Volts Hz Pulse Make Model
350 EF 1 1 O 116 100.0 1.4 700 60 6 SR 15A

FISH SUMMARY

Site	MTD/NO	H/P	Species	Stage	Age	Total #	Lgth (Min/Max)	Activity	Comment
350	EF	1 1	CT	F	0+	5	31 39	R	
350	EF	1 1	CT	J	1+	2	51 71	R	
350	EF	1 1	RB	J	1+	1	79 79	R	
350	EF	1 1	RB	J		6	88 100	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.	
350	EF	1 1	RB	79		U	U					4 36	
350	EF	1 1	CT	51		U	U						
350	EF	1 1	CT	71		U	U						
350	EF	1 1	CT	38		U	U						
350	EF	1 1	CT	37		U	U						
350	EF	1 1	CT	31		U	U						
350	EF	1 1	CT	33		U	U						
350	EF	1 1	CT	39		U	U						
350	EF	1 1	RB	90		U	U	SC	1100	1+			
350	EF	1 1	RB	97		U	U	SC	1101	1+			
350	EF	1 1	RB	100		U	U	SC	1102	1+			
350	EF	1 1	RB	92		U	U	SC	1103	1+			
350	EF	1 1	RB	88		U	U	SC	1104	1+			
350	EF	1 1	RB	90		U	U	SC	1105	1+			

COMMENTS



Photo #: 4 - 35
 Site 350, looking downstream at LWD (spanning) and large pool.



Photo #: 4 - 34
 Site 350, looking upstream at LWD (spanning) and overstream vegetation.



Photo #: 4 - 36
Site 350, photo of a 79 mm rainbow trout.

Site/Reach Card

Watershed Code 460-600600-63200-00000-0000-0000-000-000-000-000-000

Reach 13.0

Site # 351

Project Name Morice River Fish Inventory - 1999

Project Code 1710

REACH ATTRIBUTES										Sample Type	R	
Length (km)	.61	Elevation (m): upstream	850	downstream	794	UTM (Zone/East/North/ method)						
Gradient (%)	9.2	Order	2	Magnitude	2	BGC Zone	SBS	9	615195	5991204	GIS	
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	NONE				Width (m)			
Coupling	Decoupled			Islands	NONE				Beaver Dam(s)	☐		
Channel Pattern	Irregular, Wandering			Landuse	None/natural				LWD jam(s)	☐		
Riparian Vegetation	Deciduous			Valley Flat	No valley flat on either bank				(C)ontinuous	☒ N		
									(D)iscontinuous			

SITE												
Gazetted Name	MCBRIDE CREEK				Local Name							
Survey Date	1999/08/20	Time	16:59	Agency:	C151							
Crew	JA/JD	Access	V2	MAP UTM (Zone/East/North/Method)	9	614996	5991327	GIS				
Site Length (m)	100	Method	GE	Fish Card	☒ Incomplete	☐	NID Map	93L.004	NID #	40051		

CHANNEL										
Channel Widths (m)	2.4	2.6	1.9	3.3	3.4	2.5	2.1	2.4	Average	Method(s)
Wetted Widths (m)	1.5	1.4	1.3	1.4	1.4	1.3	1.5	1.1	2.6	T
Resid. Pool Depths (m)	0.13	0.14	0.29	0.31	0.14	0.27	0.31	0.42	1.3	T
									0.25	T
No Vis.Ch.	☐	Dewatered	☐	Gradients (%)	4.0	3.0	5.0	3.0	3.7	C, C
Intermittent	☐	Tributaries	☐	Bankfull Depth (m)	0.4	0.5	0.5		0.5	MS

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

WATER										
Temperature	12	Method	T3	pH	7.3	Method	P2	EMS #		
Conductivity	60	Method	S3	Turbidity	☐ Turbid	☐ Medium	☐ Light	☒ Clear	Method	GE

MORPHOLOGY										
BED	Dominant	Gravels	D95(cm) (only 5% larger)	30						
MATERIAL	Subdominant	Cobble	D (cm) (moveable)	10						
Channel Pattern	Irregular, Wandering				Morphology Code	RP				
Coupling	Decoupled				Bars	☒ None ☐ Mid				
Confinement	Unconfined					☐ Side ☐ Span				
Islands	None					☐ Diag. ☐ Braid				
Abandoned channels	☐ B1	SWD	☐ D1	Extensive riffles	☐ C1	Homog. bed	☐ S1			

Site/Reach Card

Watershed Code 460-600600-63200-00000-00000-00000-000-000-000-000-000-000

Reach 13.0

Site # 351

Project Name Morice River Fish Inventory - 1999

Project Code 1710

Eroding banks ☐ B2	LWD ☐ D2	Minimal pool area ☐ C2	Sediment fingers ☐ S2
Avulsions ☐ B3	LWD Jam(s) ☐ D3	Elevated mid chan bars ☐ C3	Sediment wedges ☐ S3
		Mult. chan./braids ☐ C4	Extensive bars ☐ S4
Beaver dams ☐ O1		Dist. stone lines ☐ C5	Extensive scour ☐ S5

FEATURE							
Type CV	Height 1.0	Method GE	Length 15	Method GE			
Comments							
Photograph	Roll 5	Frame 2	UTM (Zone/East/North/ Method)	9	614907	5991448	GIS

HABITAT QUALITY				FSZs	Side Chan ☒	Flood/Beaver ☒
				Trips ☒	Flood Chan ☒	Slough ☒

Name	Comments
Spawning Habitat	Excellent spawning habitat- abundant spawning gravels
Rearing Habitat	Moderate rearing habitat - lack of deep pool habitat
OverWinter Habitat	No overwintering habitat

PHOTO DOCUMENTATION							
Film	Compact Disc	Lens / Dir.	Comments				
Roll 5	Fr 2 CD 2110	Im 137 STD U	Site 351, looking upstream at 1m culvert - cascade at outlet partial barrier.				
Roll 5	Fr 3 CD 2110	Im 138 STD D	Site 351, looking downstream at heavy overstream cover.				
Roll 5	Fr 4 CD 2110	Im 139 STD U	Site 351, looking upstream at heavy overstream cover.				

WILDLIFE

COMMENT

Form	Section	Comments
SITE	CHANNEL	C1, S3
SITE	CHANNEL	C2, CT captured
SITE	SITE CARD	C6, FC# 16278

FDIS Fish Form

Watershed Code 460-600600-63200-00000-0000-0000-000-000-000-000-000

Reach # 13.0

ILP #

ILP Map #

Project Name Morice River Fish Inventory - 1999

Project Code 1710

Lake / Stream	S	SITE / METHOD				Waterbody ID
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Permit 34770-20 Date: 1999/08/20 To: 1999/08/20 Crew: JD/JA Resample ☐

Site	NID MAP	NID	UTM:Zone/East/North/	Mthd	MTD/NO	Temp	Cond	Turbid	Comment
351	93L.004	40051	9 614996 5991327		EF 1	12.0	60	C	
351	93L.004	40051	9 614996 5991327		MT 1	12.0	60	C	
351	93L.004	40051	9 614996 5991327		MT 2	12.0	60	C	

GEAR SETTINGS

Site	MTD/NO	H/P	Date In	Time In	Date Out	Time Out	Comment
351	EF 1	1	1999/08/20	16:00	1999/08/20	16:41	
351	MT 1	1	1999/08/20	11:00	1999/08/20	16:30	Bear took trap
351	MT 2	1	1999/08/20	11:00	1999/08/20	16:29	

NET/TRAP SPECIFICATIONS

Site	MTD/NO.	H/P	Net Type	Length	Depth	Mesh	Setting	Habitat
351	MT 1	1			0.3		BT	NA
351	MT 2	1			0.4		BT	NA

ELECTROFISHER SPECIFICATIONS

Site	MTD/NO	H/P	Encl	Sec.	Length	Width	Volts	Hz	Pulse	Make	Model
351	EF 1	1	O	150	100.0	1.8	600	60	6	SR	15A

FISH SUMMARY

Site	MTD/NO	H/P	Species	Stage	Age	Total #	Lgth (Min/Max)	Activity	Comment
351	EF 1	1	CT	J	1+	6	64 86	R	
351	MT 1	1	NFC			0			NFC - Bear took trap
351	MT 2	1	CT	J	1+	1	78 78	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
351	EF 1	1	CT	86		U	U				5 1	
351	EF 1	1	CT	83		U	U					
351	EF 1	1	CT	64		U	U					
351	EF 1	1	CT	71		U	U					
351	EF 1	1	CT	69		U	U					
351	EF 1	1	CT	76		U	U					
351	MT 2	1	CT	78		U	U					

COMMENTS



Photo #: 5 - 3
Site 351, looking downstream at heavy overstream cover.



Photo #: 5 - 2
Site 351, looking upstream at 1m culvert - cascade at outlet partial barrier.



Photo #: 5 - 4
Site 351, looking upstream at heavy overstream cover.



Photo #: 5 - 1
Site 351, photo of an 86 mm cutthroat trout.

Site/Reach Card

Watershed Code 460-600600-36400-72600-0000-0000-000-000-000-000-000

Reach 6.0
Site # 392

Project Name Morice River Fish Inventory - 1999

Project Code 1710

REACH ATTRIBUTES										Sample Type	R	
Length (km)	.67	Elevation (m): upstream	1040	downstream	975	UTM (Zone/East/North/ method)						
Gradient (%)	9.7	Order	1	Magnitude	1	BGC Zone	SBS	9	619293	5987874	GIS	
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	Frequently Confined			Exposed/Eroded	NONE				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	No valley flat on either bank				(C)ontinuous	☐ N		
									(D)iscontinuous			

SITE												
Gazetted Name						Local Name	Unnamed					
Survey Date	1999/08/12	Time	08:35	Agency:	C151							
Crew	JA/JD	Access	H	MAP UTM (Zone/East/North/Method)	9	618977	5988146	GIS				
Site Length (m)	400	Method	HC	Fish Card	☒ Incomplete	☐	NID Map	93L.005	NID #	40092		

CHANNEL										
Channel Widths (m)	1.2	1.1	1.2	1.4	1.1	1.3	Average	1.2	Method(s)	MS
Wetted Widths (m)	0.8	0.9	0.9	0.4	0.7	0.4		0.7		MS
Resid. Pool Depths (m)	0.21	0.16	0.14	0.09	0.18	0.06		0.14		MS
No Vis.Ch.	☐	Dewatered	☐	Gradients (%)	3.0	5.0	4.5	5.0	4.4	C, C
Intermittent	☐	Tributaries	☐	Bankfull Depth (m)	0.3	0.3	0.4		0.3	MS

Stage	☒ Low	COVER -		Total	Moderate	LWD	Few	Dist.	Evenly Distributed	
	☐ Med.	SWD	LWD	Boulder	Cutbank	Deep Pool	Over Veg	Instream Veg		
	☐ High	Trace	Dominant	Trace	Sub-Dominant	Trace	Trace	Trace		
Crown Closure	1-20%	LEFT BANK				RIGHT BANK				
Instream Vegetation		Shape Overhanging bank				Shape Overhanging bank				
☐ None	☐ Moss	Riparian Veg. Shrubs				Riparian Veg. Coniferous				
☐ Algae	☒ Vasc.	Riparian Stage Shrub/herb stage				Riparian Stage Pole-sapling stage				
		Texture ☒ Fines ☒ Gravel ☒ Cobble				Texture ☒ Fines ☒ Gravel ☒ Cobble				
		☐ Boulder ☐ Rock ☐ Man Made				☐ Boulder ☐ Rock ☐ Man Made				

WATER										
Temperature	8	Method	T3	pH	7.2	Method	P1	EMS #		
Conductivity	60	Method	S3	Turbidity	☐ Turbid	☐ Medium	☐ Light	☒ Clear	Method	GE

MORPHOLOGY										
BED	Dominant	Cobble	D95(cm) (only 5% larger)				20			
MATERIAL	Subdominant	Gravels	D (cm) (moveable)				7			
Channel Pattern	Irregular, Wandering		Morphology Code				RP			
Coupling	Decoupled									
Confinement	Occasionally Confined									
Islands	None									
Abandoned channels	☐ B1	SWD	☐ D1	Extensive riffles	☐ C1	Homog. bed	☐ S1			

Site/Reach Card

Watershed Code 460-600600-36400-72600-0000-0000-000-000-000-000-000

Reach 6.0

Site # 392

Project Name Morice River Fish Inventory - 1999

Project Code 1710

Eroding banks ☐ B2 LWD ☐ D2 Minimal pool area ☐ C2 Sediment fingers ☐ S2
 Avulsions ☐ B3 LWD Jam(s) ☐ D3 Elevated mid chan bars ☐ C3 Sediment wedges ☐ S3
 Beaver dams ☐ O1 Mult. chan./braids ☐ C4 Extensive bars ☐ S4
 Dist. stone lines ☐ C5 Extensive scour ☐ S5

FEATURE

Type CV Height .4 Method GE Length 8 Method GE

Comments CV blocked with debris barrier to fish

Photograph Roll 9 Frame 6 UTM (Zone/East/North/ Method) 9 618947 5988180 GIS

HABITAT QUALITY

FSZs ☐ Side Chan ☒ Flood/Beaver ☒
 Tribs ☒ Flood Chan ☒ Slough ☒

Name Comments

Spawning Habitat Poor spawning habitat - limited to less than 2% of habitat

Rearing Habitat Poor rearing habitat - low flows limit production

OverWinter Habitat Overwintering habitat present in lake D/S, none found instream, pools <21cm deep.

PHOTO DOCUMENTATION

Film	Compact Disc	Lens / Dir.	Comments
Roll 9 Fr 6 CD 2110 Im 253 STD D			Site 392, looking downstream at CV blocked with woody debris, barrier to fish (axe).
Roll 9 Fr 7 CD 2110 Im 254 STD NS			Site 392, erosion caused by blocked CV.
Roll 9 Fr 8 CD 2110 Im 255 STD D			Site 392, looking downstream at typical habitat.
Roll 9 Fr 9 CD 2110 Im 256 STD U			Site 392, looking upstream at typical habitat.

WILDLIFE

COMMENT

Form	Section	Comments
SITE	CHANNEL	C1, S4/S6
SITE	CHANNEL	C2, CT captured D/S of CV, gradient becomes too high, 400m U/S of road crossing, gradient >20% (ave 22) channel becomes poorly defined
SITE	SITE CARD	C6, FC# 24856
SITE	SITE CARD	C3, Restoration - pull CV or replace with larger one. Access blocked, resulting in erosion.

FDIS Fish Form

Watershed Code 460-600600-36400-72600-0000-0000-000-000-000-000-000

Reach # 6.0

ILP #

ILP Map #

Project Name Morice River Fish Inventory - 1999

Project Code 1710

Lake/Stream	S	SITE/METHOD	Waterbody ID
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Permit 34770-20 Date: 1999/09/12 To: 1999/09/12 Crew: JD/JA Resample ☐

Site	NID MAP	NID	UTM:Zone/East/North/ Mthd	MTD/NO	Temp	Cond	Turbid	Comment
392	93L.005	40092	9 618977 5988146	EF 1	8.0	60	C	

GEAR SETTINGS							
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Site	MTD/NO	H/P	Date In	Time In	Date Out	Time Out	Comment
392	EF 1	1	1999/09/12	08:40	1999/09/12	09:15	

NET/TRAP SPECIFICATIONS							
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ELECTROFISHER SPECIFICATIONS							
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Site	MTD/NO	H/P	Encl	Sec.	Length	Width	Volts	Hz	Pulse	Make	Model
392	EF 1	1	O	316	400.0	1.2	600	60	8	SR	12B

FISH SUMMARY							
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Site	MTD/NO	H/P	Species	Stage	Age	Total #	Lgth (Min/Max)	Activity	Comment
392	EF 1	1	CT	J		5	48	57	R
392	EF 1	1	CT	F		4	29	33	R

INDIVIDUAL FISH DATA							
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Site	MTD/NO	H/P	Species	Length Weight		Sex	Mat	Age		Vch#	Genetic		Photograph		Comment
				(mm)	(g)			Str / Smpl# /	Age		Str/ Smpl#	Roll	Fr.		
392	EF 1	1	CT	48		U	U					9	5	on anode ring	
392	EF 1	1	CT	32		U	U					9	5	on anode ring	
392	EF 1	1	CT	33		U	U								
392	EF 1	1	CT	29		U	U								
392	EF 1	1	CT	31		U	U								
392	EF 1	1	CT	57		U	U								
392	EF 1	1	CT	49		U	U								
392	EF 1	1	CT	54		U	U								
392	EF 1	1	CT	50		U	U								

COMMENTS							
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Photo #: 9 - 7
 Site 392, erosion caused by blocked CV.



Photo #: 9 - 6
 Site 392, looking downstream at CV blocked with woody debris, barrier to fish (axe).



Photo #: 9 - 8
Site 392, looking downstream at typical habitat.



Photo #: 9 - 9
Site 392, looking upstream at typical habitat.

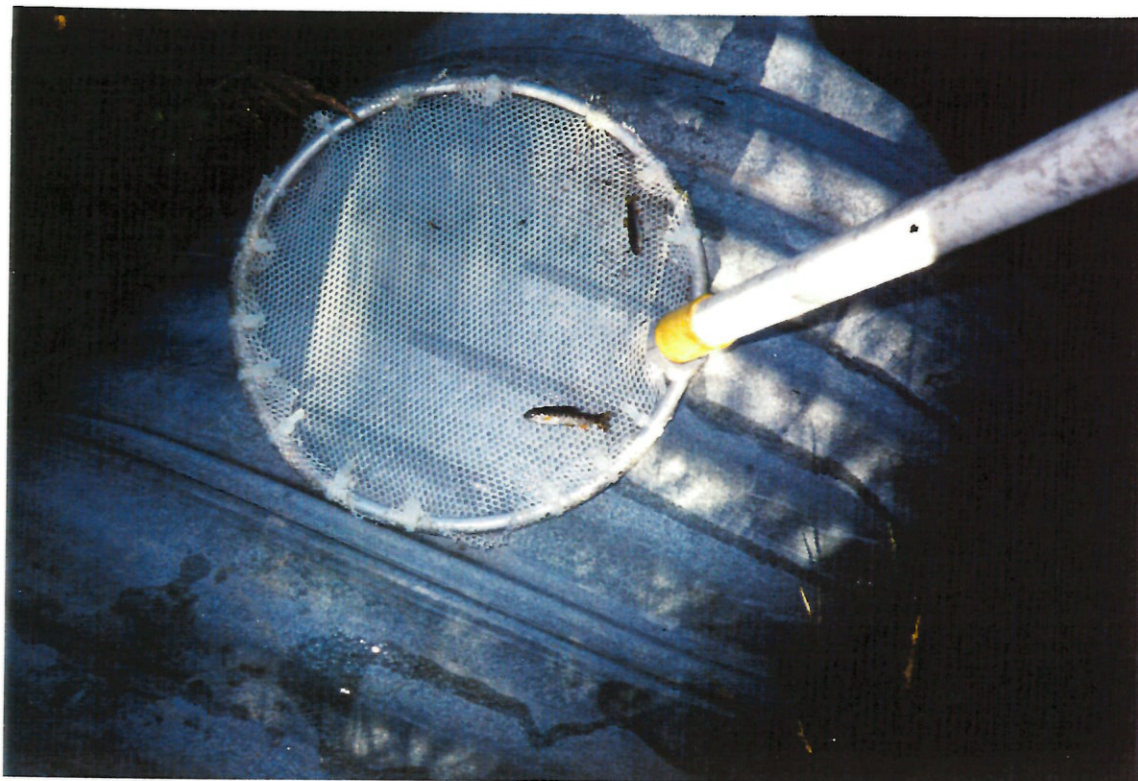


Photo #: 9 - 5
Site 392, photo of a 48 mm and a 32 mm cutthroat trout.

Site/Reach Card

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

Reach 2.0

ILP # 1028

Site # 393

ILP Map # 93L.005

Project Name Morice River Fish Inventory - 1999

Project Code 1710

REACH ATTRIBUTES										Sample Type	R	
Length (km)	.65	Elevation (m): upstream	1090	downstream	1068	UTM (Zone/East/North/ method)						
Gradient (%)	3.4	Order	1	Magnitude	1	BGC Zone	SBS	9	618838	598606	GIS	
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	NONE				Width (m)	☐		
Coupling	Decoupled			Islands	NONE				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	☒ N		

SITE										
Gazetted Name	Local Name Unnamed									
Survey Date	1999/09/12	Time	09:40	Agency:	C151					
Crew	JAJD	Access	H	MAP UTM (Zone/East/North/Method)	9	618775	5986443	GIS		
Site Length (m)	300	Method	NS	Fish Card	☒ Incomplete	☐	NID Map	93L.005	NID #	40093

CHANNEL										
Channel Widths (m)	0.8	0.9	0.8	0.8	0.9	0.8	Average	Method(s)		
Wetted Widths (m)	0.5	0.5	0.3	0.4	0.3	0.5	0.8	T		
Resid. Pool Depths (m)	0.10	0.08	0.07	0.12	0.13	0.07	0.4	T		
							0.09	MS		
No Vis.Ch.	☐	Dewatered	☐	Gradients (%)	1.5	2.0	2.0	1.5	1.7	C, C
Intermittent	☐	Tributaries	☐	Bankfull Depth (m)	0.3	0.4	0.3		0.3	MS

Stage	☒ Low	COVER -	Total	Moderate	LWD Few	Dist.	Evenly Distributed
	☐ Med.	SWD	LWD	Boulder	Cutbank	Deep Pool	Over Veg
	☐ High	Trace	ub-Dominant	None	Dominant	Trace	Trace
Crown Closure	1-20%	LEFT BANK	RIGHT BANK				
Instream Vegetation		Shape Overhanging bank	Shape Overhanging bank				
☐ None	☒ Moss	Riparian Veg. Coniferous	Riparian Veg. Coniferous				
☐ Algae	☒ Vasc.	Riparian Stage Mature forest	Riparian Stage Mature forest				
		Texture	☒ Fines	☐ Gravel	☐ Cobble	Texture	☒ Fines
			☐ Boulder	☐ Rock	☐ Man Made		☐ Boulder
							☐ Rock
							☐ Man Made

WATER									
Temperature	8	Methoc	T3	pH	7.2	Method	P1	EMS #	
Conductivity	50	Method	S3	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					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 2.0

ILP # 1028

Site # 393

ILP Map # 93L.005

Project Name Morice River Fish Inventory - 1999

Project Code 1710

Abandoned channel ☐ B1	SWD ☐ D1	Extensive riffle ☐ C1	Homog. be ☐ S1
Eroding bank ☐ B2	LWD ☐ D2	Minimal pool are ☐ C2	Sediment finger ☐ S2
Avulsion ☐ B3	LWD Jam(s) ☐ D3	Elevated mid chan bar ☐ C3	Sediment wedge ☐ S3
		Mult. chan./braid ☐ C4	Extensive bar ☐ S4
Beaver dam ☐ O1		Dist. stone line ☐ C5	Extensive sco ☐ S5

FEATURES

HABITAT QUALITY

FSZs

Side Chan ☒

Flood/Beave ☒

Tribs ☒

Flood Cha ☒

Sloug ☒

Name	Comments
Rearing Habitat	Poor rearing habitat - isolated pools, low flows, fines.
Spawning Habitat	No spawning habitat - fines and low flows.
OverWinter Habitat	No overwintering habitat - pools less than 20cm.

PHOTO DOCUMENTATION

Film	Compact Disc	Lens / Dir.	Comments
Roll 9	Fr 10 CD 2110	Im 257 STD U	Site 393, looking upstream at Jesse standing in typical habitat.
Roll 9	Fr 11 CD 2110	Im 258 STD D	Site 393, looking downstream at site with blaze in picture.

WILDLIFE

COMMENTS

Form	Section	Comments
SITE	CHANNEL	C1, S6/NVC
SITE	CHANNEL	C2, S6, 100m NVC above - no potential fish habitat. Wetland below reach has seepage over sedges algae, no channel or connectivity
SITE	SITE CARD	C6, FC# 24858

FDIS Fish Form

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

Reach # 2.0

ILP # 1028

ILP Map # 93L.005

Project Name Morice River Fish Inventory - 1999

Project Code 1710

Lake/Stream	S	SITE/METHOD		Waterbody ID
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Permit	34770-20	Date:	1999/08/12	To:	1999/08/12	Crew:	JD/JA	Resample	☐
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Site	NID MAP	NID	UTM:Zone/East/North/ Mthd	MTD/NO	Temp	Cond	Turbid	Comment
393	93L.005	40093	9 618775 5986443	EF 1	8.0	50	C	

GEAR SETTINGS							
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Site	MTD/NO	H/P	Date In	Time In	Date Out	Time Out	Comment
393	EF 1	1	1999/08/12	09:40	1999/08/12	10:25	

NET/TRAP SPECIFICATIONS											
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ELECTROFISHER SPECIFICATIONS											
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Site	MTD/NO	H/P	Encl	Sec.	Length	Width	Volts	Hz	Pulse	Make	Model
393	EF 1	1	O	315	150.0	1.0	600	60	6	SR	12-B

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

INDIVIDUAL FISH DATA											
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COMMENTS											
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Photo #: 9 - 11
Site 393, looking downstream at site with blaze in picture.



Photo #: 9 - 10
Site 393, looking upstream at Jesse standing in typical habitat.

Site/Reach Card

Watershed Code 460-600600-36400-72600-5970-0000-000-000-000-000-000

Reach 6.0

Site # 394

Project Name Morice River Fish Inventory - 1999

Project Code 1710

REACH ATTRIBUTES

Length (km) .53 Elevation (m): upstream 1070 downstream 1060 UTM (Zone/East/North/ method) 9 618973 5987075 GIS
 Gradient (%) 1.9 Order 2 Magnitude 2 BGC Zone SBS Width (m)
 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 NONE
 Coupling Partially Coupled Islands NONE 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 ☒ N
 (D)iscontinuous

SITE

Gazetted Name Local Name Unnamed
 Survey Date 1999/09/12 Time 10:50 Agency: C151
 Crew JD/JA Access H MAP UTM (Zone/East/North/Method) 9 618844 5987178 GIS
 Site Length (m) 100 Method HC Fish Card ☒ Incomplete ☐ NID Map 93L.005 NID # 40094

CHANNEL

	Average						Method(s)
Channel Widths (m)	1.2	1.4	1.6	1.3	1.5	1.3	T
Wetted Widths (m)	0.7	0.6	0.6	0.6	0.8	0.9	T
Resid. Pool Depths (m)	0.21	0.06	0.17	0.09	0.08	0.16	T

No Vis.Ch. ☐	Dewatered ☐	Gradients (%)	2.0	3.0	3.0	2.5	2.6	C, C
Intermittent ☐	Tributaries ☐	Bankfull Depth (m)	0.3	0.3	0.4	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	Sub-Dominant	Trace	Dominant	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 8 Method T3 pH 7.3 Method P2 EMS #
 Conductivity 70 Method S3 Turbidity ☐ Turbid ☐ Medium ☐ Light ☒ Clear Method GE

MORPHOLOGY

BED Dominant Cobble D95(cm) (only 5% larger) 30
 MATERIAL Subdominant Gravels D (cm) (moveable) 5
 Channel Pattern Irregular, Wandering
 Coupling Partially Coupled Morphology Code RP
 Confinement Occasionally Confined
 Islands None
 Abandoned channels ☐ B1 SWD ☐ D1 Extensive riffles ☐ C1 Homog. bed ☐ S1
 Bars ☒ None ☐ Mid
☐ Side ☐ Span
☐ Diag. ☐ Braid

Site/Reach Card

Watershed Code 460-600600-36400-72600-5970-0000-000-000-000-000-000

Reach 6.0

Site # 394

Project Name Morice River Fish Inventory - 1999

Project Code 1710

Eroding banks ☐ B2	LWD ☐ D2	Minimal pool area ☐ C2	Sediment fingers ☐ S2
Avulsions ☐ B3	LWD Jam(s) ☐ D3	Elevated mid chan bars ☐ C3	Sediment wedges ☐ S3
		Mult. chan./braids ☐ C4	Extensive bars ☐ S4
Beaver dams ☐ O1		Dist. stone lines ☐ C5	Extensive scour ☐ S5

FEATURE					
Type	BD	Height	1.5	Method	GE
Length	30	Method	GE		
Comments beaver dam barrier at the outlet.					
Photograph	Roll 9	Frame 15	UTM (Zone/East/North/ Method)	9 619014	5987078 GIS

HABITAT QUALITY		FSZs	Side Chan ☒	Flood/Beaver ☒
		Tribs. ☒	Flood Chan ☒	Slough ☒

Name	Comments
Rearing Habitat	moderate rearing habitat, adequate cover and flows
Spawning Habitat	poor spawning habitat habitat, <1% of the total available habitat.
OverWinter Habitat	pools >50cm not encountered.

PHOTO DOCUMENTATION							
Film	Compact Disc	Lens / Dir.	Comments				
Roll 9	Fr 13 CD 2110	Im 260 STD U	Site 394, looking upstream at typical habitat within the reach.				
Roll 9	Fr 14 CD 2110	Im 261 STD D	Site 394, looking downstream at LWD in the channel.				
Roll 9	Fr 15 CD 2110	Im 262 STD U	Site 394, looking upstream at a beaver dam barrier to fish migration.				

WILDLIFE	
COMMENT	

Form	Section	Comments
SITE	CHANNEL	C1, S4
SITE	CHANNEL	C2, CT captured.
SITE	CHANNEL	C6, FC # 24857.

FDIS Fish Form

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

Reach # 6.0

ILP # 1050

ILP Map # 93L.005

Project Name Morice River Fish Inventory - 1999

Project Code 1710

Lake/Stream	S	SITE/METHOD				Waterbody ID
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Permit 34770-20 Date: 1999/09/12 To: 1999/09/12 Crew: JD/JA Resample ☐

Site	NID MAP	NID	UTM:Zone/East/North/ Mthd	MTD/NO	Temp	Cond	Turbid	Comment
394	93L.005	40094	9 618844 5987178	EF 1	8.0	70	C	

GEAR SETTINGS

Site	MTD/NO	H/P	Date In	Time In	Date Out	Time Out	Comment
394	EF 1	1	1999/09/12	10:50	1999/09/12	11:20	

NET/TRAP SPECIFICATIONS

ELECTROFISHER SPECIFICATIONS

Site	MTD/NO	H/P	Encl	Sec.	Length	Width	Volts	Hz	Pulse	Make	Model
394	EF 1	1	O	107	100.0	1.4	600	60	0.4-8	SR	12-B

FISH SUMMARY

Site	MTD/NO	H/P	Species	Stage	Age	Total #	Lgth (Min/Max)	Activity	Comment
394	EF 1	1	CT	J		6	42 73	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.		
394	EF	1	1	CT	42		U	U					9	12	
394	EF	1	1	CT	73		U	U							
394	EF	1	1	CT	49		U	U							
394	EF	1	1	CT	53		U	U							
394	EF	1	1	CT	67		U	U							
394	EF	1	1	CT	70		U	U							

COMMENTS



Photo #: 9 - 14
Site 394, looking downstream at LWD in the channel.



Photo #: 9 - 15
Site 394, looking upstream at a beaver dam barrier to fish migration.



Photo #: 9 - 13
Site 394, looking upstream at typical habitat within the reach.

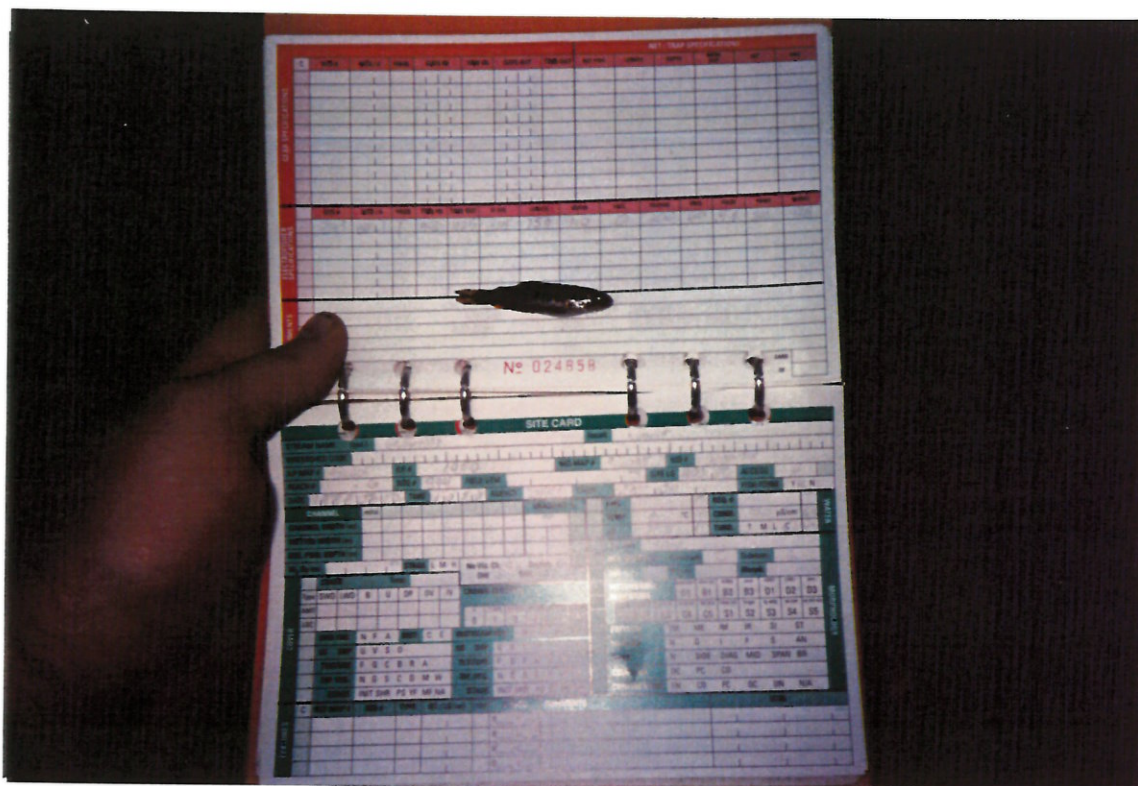


Photo #: 9 - 12
Site 394, photo of a 42 mm cutthroat trout.

Site/Reach Card

Watershed Cod 000-000000-00000-00000-0000-0000-000-000-000-000-000-000

Reach 6.0

ILP # 1039

Site # 395

ILP Map # 93L.005

Project Name Morice River Fish Inventory - 1999

Project Code 1710

REACH ATTRIBUTES										Sample Type	R	
Length (km)	.29	Elevation (m): upstrea	1111	downstream	1110	UTM (Zone/East/North/ method)						
Gradient (%)	0.3	Order	1	Magnitude	1	BGC Zone	SBS	9	620484	598689	GIS	
Setting	Valley Wall					Bars	☐ None	☐ Side	☐ Diagonal	☐ Mid	☐ Span	☐ Braid
Open water	A	Wetland	☐	Mass Movement	Low or no impact to channel;				Active Floodplai	☐		
Confinement	Unconfined			Exposed/Eroded	NONE				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	No valley flat on either bank				(C)ontinuous	☐ N		
									(D)iscontinuous	☐		

SITE											
Gazetted Name						Local Name	Unnamed				
Survey Date	1999/09/12		Time	11:52		Agency:	C151				
Crew	JA/JD		Access	H		MAP UTM (Zone/East/North/Method)	9	620622	5987003	GIS	
Site Length (m)	100		Method	HC		Fish Card	☐ Incomplete	☐	NID Map	93L.005	
									NID #	40095	

CHANNEL									
No Visible Channe ☒									
Gradient(s) (%)	1.0	1.5	1.0	1.0					
Vegetation									
Veg. Stage									

FEATURE									
HABITAT QUALITY									
					FSZs	Side Chan ☒	Flood/Beave ☒		
					Trips ☒	Flood Cha ☒	Slough ☒		
Name	Comments								
Cover	no fish habitat, not a stream.								

PHOTO DOCUMENTATION									
Film	Compact Disc			Lens / Dir.		Comments			
Roll 9	Fr	16	CD 2110	Im	263	STD	U	Site 395, photo of a sedge filled seepage area.	
Roll 9	Fr	17	CD 2110	Im	264	STD	D	Site 395, photo of Spirea and Carex sp.	

COMMENT		
Form	Section	Comments
SITE	CHANNEL	C1, NVC
SITE	CHANNEL	C2, no channel flowing out of the opening, no evidence surface scour or fluvial substrates.



Photo #: 9 - 16
Site 395, photo of a sedge filled seepage area.



Photo #: 9 - 17
Site 395, photo of Spirea and Carex sp.

Site/Reach Card

Watershed Code 460-600600-63200-66200-5930-0000-000-000-000-000-000

Reach 5.0

Site # 396

Project Name Morice River Fish Inventory - 1999

Project Code 1710

REACH ATTRIBUTES

Length (km) .50 Elevation (m): upstream 975 downstream 964 UTM (Zone/East/North/ method) 613023 5986840 GIS
 Gradient (%) 2.2 Order 1 Magnitude 1 BGC Zone SBS 9 613023 5986840 GIS
 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 NONE Width (m)
 Coupling Decoupled Islands NONE 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 ☒ N
 (D)iscontinuous

SITE

Gazetted Name Local Name Unnamed
 Survey Date 1999/09/12 Time 12:20 Agency: C151
 Crew JA./JD Access H MAP UTM (Zone/East/North/Method) 9 612970 5987130 GIS
 Site Length (m) 400 Method HC Fish Card ☒ Incomplete ☐ NID Map 93L.004 NID # 40096

CHANNEL

							Average	Method(s)
Channel Widths (m)	1.6	1.6	1.6	1.4	1.4	1.4	1.5	T
Wetted Widths (m)	1.1	1.3	1.1	1.1	1.0	0.9	1.1	T
Resid. Pool Depths (m)	0.26	0.21	0.19	0.15	0.18	0.23	0.20	T

No Vis.Ch. ☐	Dewatered ☐	Gradients (%)	2.0	2.5	1.0	1.5	1.7	C, C
Intermittent ☐	Tributaries ☐	Bankfull Depth (m)	0.3	0.3	0.3		0.3	MS

Stage ☒ Low
☐ Med.
☐ High

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

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 Overhanging bank
 Riparian Veg. Coniferous
 Riparian Stage Mature forest
 Texture ☒ Fines ☐ Gravel ☐ Cobble
☐ Boulder ☐ Rock ☐ Man Made

WATER

Temperature 8 Method T3 pH 7.3 Method P2 EMS #
 Conductivity 70 Method S3 Turbidity ☐ Turbid ☐ Medium ☐ Light ☒ Clear Method GE

MORPHOLOGY

BED Dominant Cobble D95(cm) (only 5%larger) 30
 MATERIAL Subdominant Fines D (cm) (moveable) 3

Channel Pattern Irregular, Wandering
 Coupling Decoupled
 Confinement Unconfined
 Islands None

Morphology Code
 RP

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

Abandoned channels ☐ B1

SWD ☐ D1

Extensive riffles ☐ C1

Homog. bed ☐ S1

Site/Reach Card

Watershed Code 460-600600-63200-66200-5930-0000-000-000-000-000-000

Reach 5.0

Site # 396

Project Name Morice River Fish Inventory - 1999

Project Code 1710

Eroding banks ☐ B2	LWD ☐ D2	Minimal pool area ☐ C2	Sediment fingers ☐ S2
Avulsions ☐ B3	LWD Jam(s) ☐ D3	Elevated mid chan bars ☐ C3	Sediment wedges ☐ S3
		Mult. chan./braids ☐ C4	Extensive bars ☐ S4
Beaver dams ☐ O1		Dist. stone lines ☐ C5	Extensive scour ☐ S5

FEATURE

HABITAT QUALITY

FSZs

Side Chan ☒

Flood/Beaver ☒

Trips ☒

Flood Chan ☒

Slough ☒

Name	Comments
Rearing Habitat	Poor rearing habitat, low flows, stagnant pools and fines cover large cobble substrate.
Spawning Habitat	no gravels, abundant fines, poor overall.
OverWinter Habitat	pools /<30cm, poor overwintering.

PHOTO DOCUMENTATION

Film	Compact Disc	Lens / Dir.	Comments
Roll 9 Fr 18 CD 2110 Im 265 STD U			Site 396, looking upstream at representative fish habitat in the reach.
Roll 9 Fr 19 CD 2110 Im 266 STD D			Site 396, looking downstream at standing water in the sampling area.

WILDLIFE

COMMENT

Form	Section	Comments
SITE	CHANNEL	C1, S6
SITE	CHANNEL	C2, 8.0m falls in the d/s reach prevent access.
SITE	SITE CARD	C6, FC # 24859.

FDIS Fish Form

Watershed Code 460-600600-63200-66200-5930-0000-000-000-000-000-000

Reach # 5.0

ILP #

ILP Map #

Project Name Morice River Fish Inventory - 1999

Project Code 1710

Lake/Stream S		SITE/METHOD		Waterbody ID	
Permit	34770-20	Date:	1999/09/12	To:	1999/09/12
		Crew:	JA/JD		
		Resample	☐		
Site	NID MAP	NID	UTM:Zone/East/North/ Mthd	MTD/NO	Temp
		Cond	Turbid	Comment	
396	93L.004	40096	9 612970 5987130	EF 1	8.0
				70	C
GEAR SETTINGS					
Site	MTD/NO	H/P	Date In	Time In	Date Out
			Time Out	Comment	
396	EF 1	1	1999/09/12	12:20	1999/09/12
			13:40		
NET/TRAP SPECIFICATIONS					
ELECTROFISHER SPECIFICATIONS					
Site	MTD/NO	H/P	Encl	Sec.	Length
			Width	Volts	Hz
			Pulse	Make	Model
396	EF 1	1	O	431	400.0
				1.5	600
				60	0.4-8
				SR	12-B
FISH SUMMARY					
Site	MTD/NO	H/P	Species	Stage	Age
			Total #	Lgth (Min/Max)	Activity
			Comment		
396	EF 1	1	NFC		0
INDIVIDUAL FISH DATA					
COMMENTS					



Photo #: 9 - 19
Site 396, looking downstream at standing water in the sampling area.



Photo #: 9 - 18
Site 396, looking upstream at representative fish habitat in the reach.

Site/Reach Card

Watershed Code 460-600600-63200-66200-0000-0000-000-000-000-000-000

Reach 4.0

Site # 397

Project Name Morice River Fish Inventory - 1999

Project Code 1710

REACH ATTRIBUTES									
Length (km)	.81	Elevation (m): upstream	958	downstream	930	UTM (Zone/East/North/ method)	Sample Type B		
Gradient (%)	3.5	Order	3	Magnitude	7	BGC Zone	SBS	9	611890 5987496 GIS
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		NONE		Width (m)	☐	
Coupling	Partially Coupled		Islands		NONE		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	☐ N	
							(D)iscontinuous	☐	

SITE									
Gazetted Name					Local Name	Unnamed			
Survey Date	1999/09/12	Time	14:10	Agency:	C151				
Crew	JA/JD	Access	H	MAP UTM (Zone/East/North/Method)	9	611784	5987781	GIS	
Site Length (m)	600	Method	HC	Fish Card	☒	Incomplete	☐	NID Map	93L.004
								NID #	40097

CHANNEL										
Channel Widths (m)	2.4	2.7	2.9	2.9	3.2	2.6	Average	Method(s)		
Wetted Widths (m)	2.0	1.6	2.1	2.3	2.0	1.8	2.8	T		
Resid. Pool Depths (m)	0.61	0.29	0.36	0.53	0.41	0.36	1.9	T		
							0.43	T		
No Vis.Ch.	☐	Dewatered	☐	Gradients (%)			4.0	5.0	6.0	4.5
Intermittent	☐	Tributaries	☐	Bankfull Depth (m)			0.7	0.6	0.6	4.9
										C, C
										MS

COVER -										
Stage	☐ Low	Total	Abundant	LWD	Few	Dist.	Evenly Distributed			
	☒ Med.	SWD	LWD	Boulder	Cutbank	Deep Pool	Over Veg	Instream Veg		
	☐ High	Trace	Dominant	Trace	Sub-Dominant	Sub-Dominant	Sub-Dominant	Trace		
Crown Closure	21-40%	LEFT BANK				RIGHT BANK				
Instream Vegetation		Shape Overhanging bank				Shape V - shaped (steep sloping or vertical)				
☐ 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	9	Method	T3	pH	7.2	Method	P2	EMS #	
Conductivity	60	Method	S3	Turbidity	☐ Turbid ☐ Medium ☐ Light ☒ Clear	Method GE			

MORPHOLOGY									
BED	Dominant Cobble				D95(cm) (only 5%larger)	30			
MATERIAL	Subdominant Gravels				D (cm) (moveable)	8			
Channel Pattern	Irregular, Wandering				Morphology Code				
Coupling	Partially Coupled				RP				
Confinement	Frequently Confined				Bars				
Islands	None				☒ None ☐ Mid ☐ Side ☐ Span ☐ Diag. ☐ Braid				
Abandoned channels	☐ B1	SWD	☐ D1	Extensive riffles	☐ C1	Homog. bed	☐ S1		

Site/Reach Card

Watershed Code 460-600600-63200-66200-0000-0000-000-000-000-000-000

Reach 4.0

Site # 397

Project Name Morice River Fish Inventory - 1999

Project Code 1710

Eroding banks ☐ B2	LWD ☐ D2	Minimal pool area ☐ C2	Sediment fingers ☐ S2
Avulsions ☐ B3	LWD Jam(s) ☐ D3	Elevated mid chan bars ☐ C3	Sediment wedges ☐ S3
		Mult. chan./braids ☐ C4	Extensive bars ☐ S4
Beaver dams ☐ O1		Dist. stone lines ☐ C5	Extensive scour ☐ S5

FEATURE

Type C	Height 2.0	Method GE	Length 4	Method GE
Comments cascade				
Photograph Roll 10	Frame 1	UTM (Zone/East/North/ Method)	9 611880	5987607 GIS

HABITAT QUALITY

Name	Comments
Rearing Habitat	moderate rearing habitat, abundant cover, deep pools, adequate flows.
Spawning Habitat	2-5% of the area is covered by spawning habitat
OverWinter Habitat	overwintering habitat is present in deep pools.

PHOTO DOCUMENTATION

Film	Compact Disc			Lens / Dir.		Comments
Roll 9	Fr	20	CD 2110	Im 267	STD D	Site 397, looking downstream at cobble/gravel habitat.
Roll 9	Fr	21	CD 2110	Im 268	STD U	Site 397, looking upstream at cobble/gravel habitat.
Roll 9	Fr	22	CD 2110	Im 269	STD U	Site 397, looking upstream at a canyon.
Roll 9	Fr	23	CD 2110	Im 270	STD D	Site 397, looking downstream at a canyon.
Roll 9	Fr	24	CD 2110	Im 271	STD NS	Site 397, photo of crown closure in the sampling area.
Roll 10	Fr	1	CD 2110	Im 273	STD U	Site 397, looking upstream at a 2.0m cascade.

WILDLIFE

COMMENT

Form	Section	Comments
SITE	CHANNEL	C1, S6
SITE	CHANNEL	C2, 8.0m falls in reach 3 prevent fish migration upstrea.
SITE	SITE CARD	C6, FC # 24888

FDIS Fish Form

Watershed Code 460-600600-63200-66200-0000-0000-000-000-000-000-000

Reach # 4.0

ILP #

ILP Map #

Project Name Morice River Fish Inventory - 1999

Project Code 1710

Lake / Stream S		SITE / METHOD		Waterbody ID	
Permit	34770-20	Date:	1999/09/18	To:	1999/09/18
		Crew:	JD/JA		
Site	NID MAP	NID	UTM:Zone/East/North/ Mthd	MTD/NO	Temp
397	93L.004	40097	9 611784 5987781	EF 1	9.0
				Cond	Turbid
				60	C
Resample ☐					
GEAR SETTINGS					
Site	MTD/NO	H/P	Date In	Time In	Date Out
397	EF 1	1	1999/09/18	14:10	1999/09/18
					15:40
NET/TRAP SPECIFICATIONS					
ELECTROFISHER SPECIFICATIONS					
Site	MTD/NO	H/P	Encl	Sec.	Length
397	EF 1	1	O	727	600.0
					Width
					2.8
					Volts
					600
					Hz
					60
					Pulse
					0.4-8
					Make
					SR
					Model
					12-B
FISH SUMMARY					
Site	MTD/NO	H/P	Species	Stage	Age
397	EF	1 1	NFC		
					Total #
					0
					Lgth (Min/Max)
					Activity
					Comment
INDIVIDUAL FISH DATA					
COMMENTS					



Photo #: 9 - 23
Site 397, looking downstream at a canyon.



Photo #: 9 - 20
Site 397, looking downstream at cobble/gravel habitat.



Photo #: 10 - 1
Site 397, looking upstream at a 2.0m cascade.



Photo #: 9 - 22
Site 397, looking upstream at a canyon.



Photo #: 9 - 21
Site 397, looking upstream at cobble/gravel habitat.



Photo #: 9 - 24
Site 397, photo of crown closure in the sampling area.

Site/Reach Card

Watershed Code 460-600600-63200-66200-0000-0000-000-000-000-000-000

Reach 3.0

Site # 398

Project Name Morice River Fish Inventory - 1999

Project Code 1710

REACH ATTRIBUTES										Sample Type	B	
Length (km)	1.81	Elevation (m): upstream	930	downstream	858	UTM (Zone/East/North/ method)						
Gradient (%)	4.0	Order	3	Magnitude	7	BGC Zone	SBS	9	611642	5988226	GIS	
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	NONE			Width (m)		
Coupling	Partially Coupled					Islands	NONE			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	☐ N	
									(D)iscontinuous			

SITE											
Gazetted Name						Local Name	Unnamed				
Survey Date	1999/09/13	Time	16:00	Agency:	C151						
Crew	JAJ/D	Access	H	MAP UTM (Zone/East/North/Method)	9	611562	5988316	GIS			
Site Length (m)	500	Method	HC	Fish Card	☒ Incomplete	☐	NID Map	93L.004	NID #	40098	

CHANNEL										
Channel Widths (m)	3.2	3.4	4.2	4.2	3.1	2.8	Average	3.5	Method(s)	T
Wetted Widths (m)	2.1	2.3	1.3	1.6	2.3	2.1		2.0		T
Resid. Pool Depths (m)	0.33	0.29	0.41	0.42	0.46	0.38		0.38		MS
No Vis.Ch.	☐	Dewatered	☐	Gradients (%)	4.0	5.0	4.5	4.0	4.4	C, C
Intermittent	☐	Tributaries	☐	Bankfull Depth (m)	0.8	0.6	0.7		0.7	MS

COVER -									
Stage	☐ Low	☒ Med.	☐ High	Total	Abundant	LWD	Few	Dist.	Evenly Distributed
				SWD	LWD	Boulder	Cutbank	Deep Pool	Over Veg
				Trace	Dominant	Sub-Dominant	Trace	Sub-Dominant	Trace
									Instream Veg
									Trace
Crown Closure	21-40%								
Instream Vegetation	LEFT BANK Shape Overhanging bank 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	8	Method	T3	pH	7.3	Method	P2	EMS #		
Conductivity	70	Method	S3	Turbidity	☐ Turbid	☐ Medium	☐ Light	☒ Clear	Method	GE

MORPHOLOGY										
BED	Dominant Gravels				D95(cm) (only 5%larger)	50				
MATERIAL	Subdominant Boulders				D (cm) (moveable)	15				
Channel Pattern	Irregular, Wandering									
Coupling	Partially Coupled									
Confinement	Frequently Confined									
Islands	None									
Abandoned channels ☐ B1					SWD ☐ D1		Extensive riffles ☐ C1		Homog. bed ☐ S1	
Morphology Code					RP					
Bars					☐ None ☐ Mid ☒ Side ☐ Span ☐ Diag. ☐ Braid					

Site/Reach Card

Watershed Code 460-600600-63200-66200-0000-0000-000-000-000-000-000

Reach 3.0
Site # 398

Project Name Morice River Fish Inventory - 1999

Project Code 1710

Eroding banks ☐ B2	LWD ☐ D2	Minimal pool area ☐ C2	Sediment fingers ☐ S2
Avulsions ☐ B3	LWD Jam(s) ☐ D3	Elevated mid chan bars ☐ C3	Sediment wedges ☐ S3
		Mult. chan./braids ☐ C4	Extensive bars ☐ S4
Beaver dams ☐ O1		Dist. stone lines ☐ C5	Extensive scour ☐ S5

FEATURE

Type F	Height 8.0	Method GE	Length 2	Method GE
Comments barrier to fish migration				
Photograph Roll 10	Frame 5	UTM (Zone/East/North/ Method)	9 611303	5988644 GIS
Type F	Height 8.0	Method GE	Length 2	Method GE
Comments barrier to fish migration				
Photograph Roll 10	Frame 6	UTM (Zone/East/North/ Method)	9 611303	5988644 GIS

HABITAT QUALITY

FSZs ☐	Side Chan ☒	Flood/Beaver ☒
Trips ☒	Flood Chan ☒	Slough ☒

Name	Comments
Rearing Habitat	abundant rearing cover, good flow, complex habitat.
Spawning Habitat	<2% of the total area suited to spawning.
OverWinter Habitat	none identified.

PHOTO DOCUMENTATION

Film	Compact Disc	Lens / Dir.	Comments
Roll 10 Fr 2 CD 2110 Im 274 STD U	Site 398, looking upstream at representative habitat within the reach.		
Roll 10 Fr 3 CD 2110 Im 275 STD D	Site 398, looking downstream at representative habitat within the reach.		
Roll 10 Fr 5 CD 2110 Im 277 STD U	Site 398, looking upstream at an 8.0m falls barrier.		
Roll 10 Fr 6 CD 2110 Im 278 STD U	Site 398, looking upstream at an 8.0m falls barrier.		

WILDLIFE

COMMENT

Form	Section	Comments
SITE	CHANNEL	C1, S5/S6
SITE	CHANNEL	C2, 8.0m falls barrier to upstream fish migration, CT captured below the falls.
SITE	CHANNEL	C6, FC # 24900.

FDIS Fish Form

Watershed Code 460-600600-63200-66200-0000-0000-000-000-000-000-000

Reach # 3.0

ILP #

ILP Map #

Project Name Morice River Fish Inventory - 1999

Project Code 1710

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

Permit 34770-20 Date: 1999/09/13 To: 1999/09/13 Crew: JD/JA Resample ☐

Site	NID MAP	NID	UTM:Zone/East/North/	Mthd	MTD/NO	Temp	Cond	Turbid	Comment
398	93L.004	40098	9 611562 5988316		EF 1	8.0	70	C	u/s of falls
398	93L.004	40098	9 611562 5988316		EF 2	8.0	70	C	d/s of falls

GEAR SETTINGS

Site	MTD/NO	H/P	Date In	Time In	Date Out	Time Out	Comment
398	EF 1	1	1999/09/13	16:00	1999/09/13	17:00	
398	EF 2	1	1999/09/13	17:10	1999/09/13	17:20	

NET/TRAP SPECIFICATIONS

ELECTROFISHER SPECIFICATIONS

Site	MTD/NO	H/P	Encl	Sec.	Length	Width	Volts	Hz	Pulse	Make	Model
398	EF 1	1	O	1123	500.0	3.5	600	60	0.4-8	SR	12-B
398	EF 2	1	O	159	100.0	3.5	600	60	0.4-8	SR	12-B

FISH SUMMARY

Site	MTD/NO	H/P	Species	Stage	Age	Total #	Lgth (Min/Max)	Activity	Comment
398	EF 1	1	NFC			0			
398	EF 2	1	CT	J		4	93 123	R	
398	EF 2	1	CT	J		3	59 72	R	

INDIVIDUAL FISH DATA

Site	MTD/NO	H/P	Species	Length	Weight	Sex		Age		Genetic		Photograph		Comment
				(mm)	(g)									
398	EF 2	1	CT	115		U	U						10 4	
398	EF 2	1	CT	93		U	U							
398	EF 2	1	CT	72		U	U							
398	EF 2	1	CT	123		U	U							
398	EF 2	1	CT	108		U	U							
398	EF 2	1	CT	59		U	U							
398	EF 2	1	CT	65		U	U							

COMMENTS



Photo #: 10 - 3

Site 398, looking downstream at representative habitat within the reach.



Photo #: 10 - 5

Site 398, looking upstream at an 8.0m falls barrier.



Photo #: 10 - 6
Site 398, looking upstream at an 8.0m falls barrier.



Photo #: 10 - 2
Site 398, looking upstream at representative habitat within the reach.



Photo #: 10 - 4
Site 398, photo of a 115 mm cutthroat trout.

Site/Reach Card

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

Reach 1.0

ILP # 1405

Site # 399

ILP Map # 93E.093

Project Name Morice River Fish Inventory - 1999

Project Code 1710

REACH ATTRIBUTES										Sample Type	B	
Length (km)	.97	Elevation (m): upstream	910	downstream	869	UTM (Zone/East/North/ method)						
Gradient (%)	4.2	Order	2	Magnitude	4	BGC Zone	SBS	9	602244	598396	GIS	
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	NONE				Width (m)	☐		
Coupling	Decoupled			Islands	NONE				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	1999/09/13	Time	08:30	Agency:	C151					
Crew	JA/JD	Access	H	MAP UTM (Zone/East/North/Method)	9	602089	5984032	GIS		
Site Length (m)	100	Method	HC	Fish Card	☒ Incomplete	☐	NID Map	93E.093	NID #	40099

CHANNEL										Average	Method(s)
Channel Widths (m)	2.4	1.9	1.9	1.9	2.4	2.3				2.1	T
Wetted Widths (m)	1.1	1.3	1.0	1.1	1.2	1.4				1.2	MS
Resid. Pool Depths (m)	0.31	0.33	0.29	0.16	0.17	0.21				0.24	MS

No Vis.Ch.	☐	Dewatered	☐	Gradients (%)	2.0	1.5	2.0	2.5	2.0	C, C
Intermittent	☐	Tributaries	☐	Bankfull Depth (m)	0.5	0.6	0.4	0.5	MS	

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

Crown Closure	21-40%	LEFT BANK	RIGHT BANK
		Shape Sloping (gradual or shallow sloping)	Shape V - shaped (steep sloping or vertical)
		Riparian Veg. Coniferous	Riparian Veg. Coniferous
		Riparian Stage Mature forest	Riparian Stage Mature forest
Instream Vegetation		Texture ☒ Fines ☐ Gravel ☐ Cobble	Texture ☒ Fines ☐ Gravel ☐ Cobble
		☐ Algae ☐ Vasc.	☐ Boulder ☐ Rock ☐ Man Made

WATER										
Temperature	8	Methoc	T3	pH	7.3	Method	P2	EMS #		
Conductivity	50	Method	S3	Turbidity	☐ Turbid	☐ Medium	☐ Light	☒ Clear	Method	GE

MORPHOLOGY									
BED	Dominant Gravels				D95(cm) (only 5% larger)	35			
MATERIAL	Subdominant Cobble				D (cm) (moveable)	10			

Channel Pattern	Irregular, Wandering			Morphology Code RP	Bars		
Coupling	Decoupled				☒ None	☐ Mid	
Confinement	Unconfined				☐ Side	☐ Span	
Islands	None				☐ Diag.	☐ Braid	

Site/Reach Card

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

Reach 1.0

ILP # 1405

Site # 399

ILP Map # 93E.093

Project Name Morice River Fish Inventory - 1999

Project Code 1710

Abandoned channel ☐ B1	SWD ☐ D1	Extensive riffle ☐ C1	Homog. be ☐ S1
Eroding bank ☐ B2	LWD ☐ D2	Minimal pool are ☐ C2	Sediment finger ☐ S2
Avulsion ☐ B3	LWD Jam(s) ☐ D3	Elevated mid chan bar ☐ C3	Sediment wedge ☐ S3
		Mult. chan./braid ☐ C4	Extensive bar ☐ S4
Beaver dam ☐ O1		Dist. stone line ☐ C5	Extensive sco ☐ S5

FEATURES

HABITAT QUALITY

FSZs

Side Chan ☐

Flood/Beave ☐

Tribs ☐

Flood Cha ☐

Sloug ☐

Name	Comments
Rearing Habitat	Moderate rearing cover and habitat complexity.
Spawning Habitat	Spawning habitat noted in 5-8% of the sampling area.
OverWinter Habitat	No overwintering habitat noted.

PHOTO DOCUMENTATION

Film	Compact Disc	Lens / Dir.	Comments
Roll 10 Fr 8 CD 2110 Im 280 STD U	Site 399, looking upstream at riffle habitat.		
Roll 10 Fr 9 CD 2110 Im 281 STD D	Site 399, looking downstream at pool habitat.		

WILDLIFE

COMMENTS

Form	Section	Comments
SITE	CHANNEL	C1, S3
SITE	CHANNEL	C2, DV/CT
SITE	SITE CARD	C6, FC # 24894.

FDIS Fish Form

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

Reach # 1.0

ILP # 1405

ILP Map # 93E.093

Project Name Morice River Fish Inventory - 1999

Project Code 1710

Lake / Stream S SITE / METHOD Waterbody ID

Permit 34770-20 Date: 1999/09/13 To: 1999/09/13 Crew: JD/JA Resample ☐

Site	NID MAP	NID	UTM:Zone/East/North/	Mthd	MTD/NO	Temp	Cond	Turbid	Comment
399	93E.093	40099	9 602089	5984032	EF 1	8.0	50	C	

GEAR SETTINGS

Site	MTD/NO	H/P	Date In	Time In	Date Out	Time Out	Comment
399	EF 1	1	1999/09/13	08:30	1999/09/13	09:15	

NET/TRAP SPECIFICATIONS

ELECTROFISHER SPECIFICATIONS

Site	MTD/NO	H/P	Encl	Sec.	Length	Width	Volts	Hz	Pulse	Make	Model
399	EF 1	1	O	236	100.0	2.0	600	60	0.4-8	SR	12-B

FISH SUMMARY

Site	MTD/NO	H/P	Species	Stage	Age	Total #	Lgth (Min/Max)	Activity	Comment
399	EF	1 1	DV	J		3	125 142	R	
399	EF	1 1	CT	J		3	46 69	R	
399	EF	1 1	CT	F		2	31 33	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#			
399	EF	1	1	DV	142		U	U						
399	EF	1	1	DV	131		U	U						
399	EF	1	1	CT	65		U	U	SC	1012	0+		10 7	
399	EF	1	1	CT	31		U	U						
399	EF	1	1	CT	46		U	U						
399	EF	1	1	DV	125		U	U						
399	EF	1	1	CT	49		U	U						
399	EF	1	1	CT	33		U	U						

COMMENTS



Photo #: 10 - 8
Site 399, looking upstream at riffle habitat.



Photo #: 10 - 7
Site 399, photo of a 65 mm cutthroat trout.



Photo #: 10 - 9
Site 399, looking downstream at pool habitat.

Site/Reach Card

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

Reach 3.0

ILP # 1237

Site # 400

ILP Map # 93E.093

Project Name Morice River Fish Inventory - 1999

Project Code 1710

REACH ATTRIBUTES										Sample Type	R	
Length (km)	.36	Elevation (m): upstream	920	downstream	896	UTM (Zone/East/North/ method)						
Gradient (%)	6.7	Order	2	Magnitude	1	BGC Zone	SBS	9	602080	598334	GIS	
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	NONE				Width (m)	☐		
Coupling	Decoupled			Islands	NONE				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	1999/09/13	Time	10:20	Agency:	C151					
Crew	JA/JD	Access	H	MAP UTM (Zone/East/North/Method)	9	601935	5983403	GIS		
Site Length (m)	360	Method	HC	Fish Card	☒ Incomplete	☐	NID Map	93E.093	NID #	40100

CHANNEL										
Channel Widths (m)	0.4	0.5	0.9	0.7	0.4	0.4	Average	0.6	Method(s)	MS
Wetted Widths (m)	0.3	0.3	0.3	0.4	0.2	0.2		0.3		MS
Resid. Pool Depths (m)	0.06	0.07	0.05	0.10	0.08	0.06		0.07		MS
No Vis.Ch.	☐	Dewatered	☐	Gradients (%)	4.5	5.0	4.0	4.5	4.5	C, C
Intermittent	☐	Tributaries	☐	Bankfull Depth (m)	0.2	0.2	0.2		0.2	MS

Stage	☒ Low	COVER -	Total	Moderate	LWD	Few	Dist.	Evenly Distributed
	☐ Med.	SWD	LWD	Boulder	Cutbank	Deep Pool	Over Veg	Instream Veg
	☐ High	Trace	Dominant	None	ub-Dominant	None	Trace	Trace
Crown Closure	21-40%	LEFT BANK			RIGHT BANK			
Instream Vegetation		Shape Overhanging bank			Shape Overhanging bank			
☐ None	☒ Moss	Riparian Veg. Coniferous			Riparian Veg. Coniferous			
☐ Algae	☐ Vasc.	Riparian Stage Mature forest			Riparian Stage Mature forest			
		Texture	☒ Fines	☐ Gravel	☐ Cobble		Texture	☒ Fines
			☐ Boulder	☐ Rock	☐ Man Made			☐ Gravel
								☐ Cobble
								☐ Boulder
								☐ Rock
								☐ Man Made

WATER										
Temperature	7	Methoc	T3	pH	7.4	Method	P2	EMS #		
Conductivity	60	Method	S3	Turbidity	☐ Turbid	☐ Medium	☐ Light	☒ Clear	Method	GE

MORPHOLOGY									
BED	Dominant Fines				D95(cm) (only 5% larger)		20		
MATERIAL	Subdominant Cobble				D (cm) (moveable)		1		
Channel Pattern	Irregular, Wandering								
Coupling	Decoupled								
Confinement	Unconfined								
Islands	None								
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 3.0
Site # 400

ILP # 1237
ILP Map # 93E.093

Project Name Morice River Fish Inventory - 1999

Project Code 1710

Abandoned channel ☐ B1	SWD ☐ D1	Extensive riffle ☐ C1	Homog. be ☐ S1
Eroding bank ☐ B2	LWD ☐ D2	Minimal pool are ☐ C2	Sediment finger ☐ S2
Avulsion ☐ B3	LWD Jam(s) ☐ D3	Elevated mid chan bar ☐ C3	Sediment wedge ☐ S3
		Mult. chan./braid ☐ C4	Extensive bar ☐ S4
Beaver dam ☐ O1		Dist. stone line ☐ C5	Extensive sco ☐ S5

FEATURES

HABITAT QUALITY

FSZs

Side Chan ☒

Flood/Beave ☒

Trips ☒

Flood/Cha ☒

Sloug ☒

Name	Comments
Rearing Habitat	poor rearing habitat, substrate comprised of fines over cobble, low flows, isolated pools.
Spawning Habitat	no spawning habitat.
OverWinter Habitat	no overwintering habitat.

PHOTO DOCUMENTATION

Film	Compact Disc	Lens / Dir.	Comments
Roll 10 Fr 10 CD 2110 Im 282 STD U	Site 400, looking upstream at an intermittent channel and devil's club cover.		
Roll 10 Fr 11 CD 2110 Im 283 STD D	Site 400, looking downstream at an isolated pool.		

WILDLIFE

COMMENTS

Form	Section	Comments
SITE	CHANNEL	C1, S6
SITE	CHANNEL	C2, ephemeral stream, isolated pools, subsurface flow, not suited to salmonids.
SITE	CHANNEL	C6, FC # 24895
SITE	CHANNEL	C5, gradient increases at the road crossing.
SITE	SITE CARD	Actual site length was 400 m

FDIS Fish Form

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

Reach # 3.0

ILP # 1237

ILP Map # 93E.093

Project Name Morice River Fish Inventory - 1999

Project Code 1710

Lake / Stream	S	SITE/METHOD	Waterbody ID
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Permit	34770-20	Date: 1999/09/13	To: 1999/09/13	Crew: JD/JA	Resample
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Site	NID MAP	NID	UTM:Zone/East/North/ Mthd	MTD/NO	Temp	Cond	Turbid	Comment
400	93E.093	40100	9 601935 5983403	EF 1	7.0	60	C	

GEAR SETTINGS							
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Site	MTD/NO	H/P	Date In	Time In	Date Out	Time Out	Comment
400	EF 1	1	1999/09/13	10:20	1999/09/13	11:05	

NET/TRAP SPECIFICATIONS											
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ELECTROFISHER SPECIFICATIONS											
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Site	MTD/NO	H/P	Encl	Sec.	Length	Width	Volts	Hz	Pulse	Make	Model
400	EF 1	1	O	237	300.0	0.5	600	60	0.4-8	SR	12-B

FISH SUMMARY									
--------------	--	--	--	--	--	--	--	--	--

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

INDIVIDUAL FISH DATA									
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COMMENTS									
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Photo #: 10 - 11
Site 400, looking downstream at an isolated pool.



Photo #: 10 - 10
Site 400, looking upstream at an intermittent channel and devil's club cover.

Site/Reach Card

Watershed Cod 000-000000-00000-00000-0000-0000-000-000-000-000-000-000

Reach 1.0

ILP # 1287

Site # 401

ILP Map # 93E.093

Project Name Morice River Fish Inventory - 1999

Project Code 1710

REACH ATTRIBUTES									
Length (km)	.28	Elevation (m): upstrea	1060	downstream	999	UTM (Zone/East/North/ method)	Sample Type B		
Gradient (%)	21.8	Order 1	Magnitude 1	BGC Zone	ESSF	9	602445	598223	GIS
Setting	Valley Wall			Bars	☐ None ☐ Side ☐ Diagonal ☐ Mid ☐ Span ☐ Braid				
Open water	A	Wetland	☐		Mass Movement	Low or no impact to channel;		Active Floodplai	☐
Confinement	Frequently Confined			Exposed/Eroded	NONE		Width (m	☐	
Coupling	Decoupled			Islands	NONE		Beaver Dam(s)	☐	
Channel Pattern	Straight			Landuse	None/natural		LWD Jam(s)	☐	
Riparian Vegetation	Mixed C/D			Valley Flat	No valley flat on either bank		(C)ontinuous	(D)iscontinuous	N

SITE									
Gazetted Name					Local Name	Unnamed			
Survey Date	1999/09/13	Time	11:20	Agency:	C151				
Crew	JA/JD	Access	H	MAP UTM (Zone/East/North/Method)	9	602332	5982265	GIS	
Site Length (m)	100	Method	GE	Fish Card	☐ Incomplete ☐	NID Map	93E.093	NID #	40101

CHANNEL									
No Visible Channe ☒									
Gradient(s) (%)	20.0	22.0	20.0	21.0					
Vegetation									
Veg. Stage									

FEATURE									
HABITAT QUALITY					FSZs				
					Side Chan ☒		Flood/Beave ☒		
					Tribes ☒		Flood Cha ☒		Slough ☒

Name	Comments
Cover	no potential fish habitat, vegetated seepage.

PHOTO DOCUMENTATION									
Film	Compact Disc	Lens / Dir.	Comments						
Roll 10	Fr 12 CD 2110	Im 284	STD D	Site 401, photo of a vegetated seepage.					
Roll 10	Fr 13 CD 2110	Im 285	STD U	Site 401, photo of a vegetated seepage.					

COMMENT		
Form	Section	Comments
SITE	CHANNEL	C1, NVC
SITE	CHANNEL	C2, no channel, no evidence of scour or ponding.



Photo #: 10 - 13
Site 401, photo of a vegetated seepage.



Photo #: 10 - 12
Site 401, photo of a vegetated seepage.

Site/Reach Card

Watershed Code 460-600600-64400-27000-0000-0000-000-000-000-000-000

Reach 2.0
Site # 402

Project Name Morice River Fish Inventory - 1999

Project Code 1710

REACH ATTRIBUTES										Sample Type	B	
Length (km)	.53	Elevation (m): upstream	1020	downstream	940	UTM (Zone/East/North/ method)						
Gradient (%)	15.1	Order	2	Magnitude	3	BGC Zone	ESSF	9	602239	5981562	GIS	
Setting	Valley Wall					Bars	☐ None	☐ Side	☐ Diagonal	☐ Mid	☐ Span	☐ Braid
Open water	A	Wetland	☐			Mass Movement	High impact; active debris to			Active Floodplain ☐		
Confinement	Confined					Exposed/Eroded	NONE			Width (m)		
Coupling	Coupled					Islands	NONE			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 ☒ N		

SITE											
Gazetted Name						Local Name	Unnamed				
Survey Date	1999/09/13	Time	12:20	Agency:		C151					
Crew	JD/EL	Access	H	MAP UTM (Zone/East/North/Method)		9	601851	5981556	GIS		
Site Length (m)	400	Method	HC	Fish Card	☒ Incomplete ☐	NID Map	93E.093	NID #	40102		

CHANNEL										
Channel Widths (m)	3.1	3.2	3.1	2.8	3.2	2.7	Average	3.0		
Wetted Widths (m)	2.1	1.8	1.6	1.5	1.7	2.0		1.8		
Resid. Pool Depths (m)	0.33	0.41	0.27	0.28	0.31	0.29		0.31		
No Vis.Ch. ☐	Dewatered ☐	Gradients (%)		8.5	10.0	10.5	12.0	10.2	C, C	
Intermittent ☐	Tributaries ☐	Bankfull Depth (m)		0.6	0.6	0.7	0.6	MS		

Stage ☒ Low	COVER -		Total	Moderate	LWD	Abundant	Dist.	Evenly Distributed	
☐ Med.	SWD	LWD	Boulder	Cutbank	Deep Pool	Over Veg	Instream Veg		
☐ High	Trace	Dominant	Sub-Dominant	Trace	Sub-Dominant	Trace	Trace		
Crown Closure	LEFT BANK		RIGHT BANK						
21-40%	Shape V - shaped (steep sloping or vertical)		Shape V - shaped (steep sloping or vertical)						
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	7	Method	T3	pH	7.1	Method	P2	EMS #	
Conductivity	30	Method	S3	Turbidity	☐ Turbid ☐ Medium ☐ Light ☒ Clear	Method GE			

MORPHOLOGY									
BED	Dominant Cobble		D95(cm) (only 5% larger)		40				
MATERIAL	Subdominant Boulders		D (cm) (moveable)		15				
Channel Pattern	Irregular, Wandering		Morphology Code		CP				
Coupling	Coupled		Bars		☒ None ☐ Mid				
Confinement	Confined				☐ Side ☐ Span				
Islands	None				☐ Diag. ☐ Braid				
Abandoned channels	☐ B1	SWD	☐ D1	Extensive riffles	☐ C1	Homog. bed	☐ S1		

Site/Reach Card

Watershed Code 460-600600-64400-27000-0000-0000-000-000-000-000-000

Reach 2.0

Site # 402

Project Name Morice River Fish Inventory - 1999

Project Code 1710

Eroding banks ☐ B2	LWD ☐ D2	Minimal pool area ☐ C2	Sediment fingers ☐ S2
Avulsions ☐ B3	LWD Jam(s) ☐ D3	Elevated mid chan bars ☐ C3	Sediment wedges ☐ S3
		Mult. chan./braids ☐ C4	Extensive bars ☐ S4
Beaver dams ☐ O1		Dist. stone lines ☐ C5	Extensive scour ☐ S5

FEATURE

HABITAT QUALITY

FSZs

Side Chan ☒

Flood/Beaver ☒

Tribs. ☒

Flood Chan ☒

Slough ☒

Name	Comments
OverWinter Habitat	no overwintering habitat, pools<41cm.
Spawning Habitat	poor spawning habitat, substrate dominated by boulders and cobble, high gradient also noted.
Rearing Habitat	cascade/pool habitat with some good cover.

PHOTO DOCUMENTATION

Film	Compact Disc	Lens / Dir.	Comments
Roll 10 Fr 14 CD 2110 Im 286 STD U	Site 402, looking upstream at cascade/pool habitat.		
Roll 10 Fr 15 CD 2110 Im 287 STD D	Site 402, looking downstream at pool habitat.		

WILDLIFE

COMMENT

Form	Section	Comments
SITE	CHANNEL	C1, S5
SITE	CHANNEL	C2, steep gradient section of 100 m prevents fish access into this reach.
SITE	SITE CARD	C6, FCF # 24861.

FDIS Fish Form

Watershed Code 460-600600-64400-27000-0000-0000-000-000-000-000-000

Reach # 2.0

ILP #

ILP Map #

Project Name Morice River Fish Inventory - 1999

Project Code 1710

Lake/Stream	S	SITE/METHOD	Waterbody ID
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Permit 34770-20 Date: 1999/09/13 To: 1999/09/13 Crew: JD/EL Resample ☐

Site	NID MAP	NID	UTM:Zone/East/North/	Mthd	MTD/NO	Temp	Cond	Turbid	Comment
402	93E.093	40102	9 601851 5981556		EF 1	7.0	30	C	

GEAR SETTINGS

Site	MTD/NO	H/P	Date In	Time In	Date Out	Time Out	Comment
402	EF 1	1	1999/09/13	12:20	1999/09/13	13:30	

NET/TRAP SPECIFICATIONS

ELECTROFISHER SPECIFICATIONS

Site	MTD/NO	H/P	Encl	Sec.	Length	Width	Volts	Hz	Pulse	Make	Model
402	EF 1	1	O	420	400.0	2.8	600	60	0.4-8	SR	12-B

FISH SUMMARY

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

INDIVIDUAL FISH DATA

COMMENTS

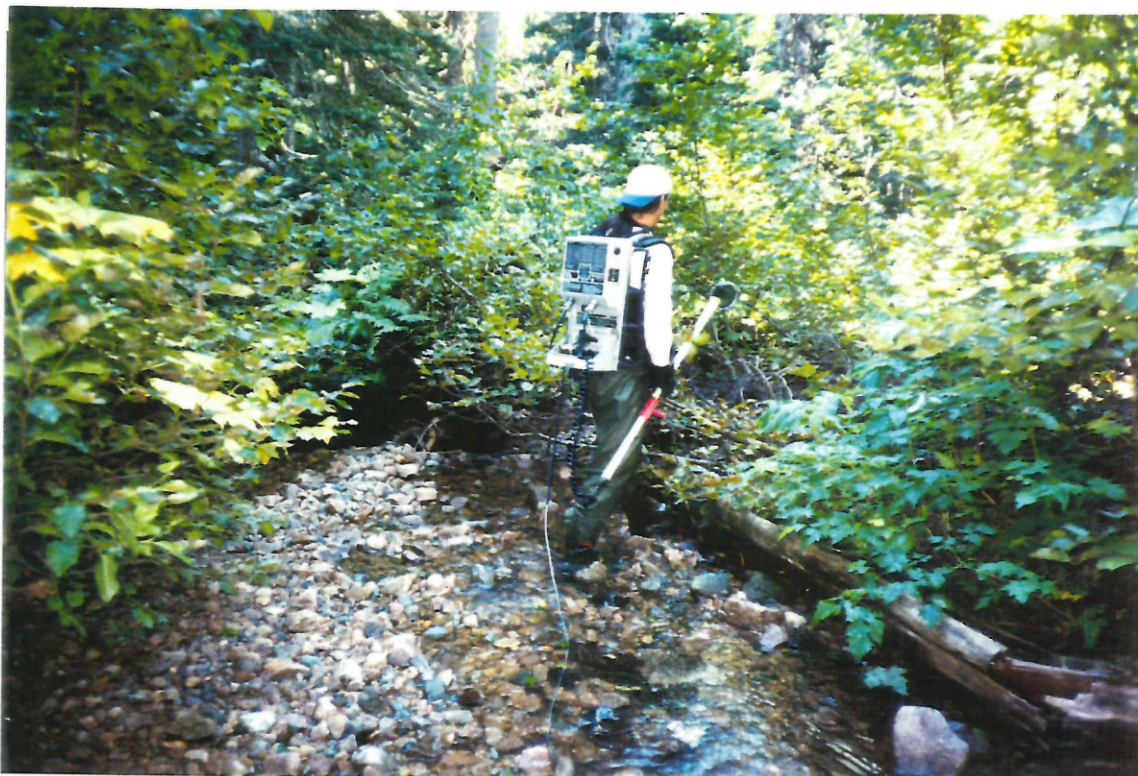


Photo #: 10 - 15
Site 402, looking downstream at pool habitat.



Photo #: 10 - 14
Site 402, looking upstream at cascade/pool habitat.

Site/Reach Card

Watershed Code 460-600600-64400-27800-0000-0000-000-000-000-000-000

Reach 2.0
Site # 403

Project Name Morice River Fish Inventory - 1999

Project Code 1710

REACH ATTRIBUTES									
Length (km)	.64	Elevation (m): upstream	998	downstream	921	UTM (Zone/East/North/ method)	Sample Type ☒ B		
Gradient (%)	12.0	Order	1	Magnitude	1	BGC Zone	ESSF	9	602096 5980773 GIS
Setting	Valley Wall	Bars	☐ None	☐ Side	☐ Diagonal	☐ Mid	☐ Span	☐ Braid	
Open water	A	Wetland	☐	Mass Movement	High impact; active debris to	Active Floodplain	☐		
Confinement	Confined	Exposed/Eroded	NONE			Width (m)	☐		
Coupling	Coupled	Islands	NONE			Beaver Dam(s)	☐		
Channel Pattern	Sinuuous	Landuse	None/natural			LWD Jam(s)	☐		
Riparian Vegetation	Coniferous	Valley Flat	No valley flat on either bank			(C)ontinuous	☒ N		
						(D)iscontinuous			

SITE									
Gazetted Name					Local Name	Unnamed			
Survey Date	1999/09/13	Time	14:00	Agency:	C151				
Crew	JD/EL	Access	H	MAP UTM (Zone/East/North/Method)	9	601565	5980884	GIS	
Site Length (m)	200	Method	HC	Fish Card	☒ Incomplete	☐	NID Map	93E.093	NID # 40103

CHANNEL							Average	Method(s)
Channel Widths (m)	2.8	2.8	3.2	2.6	2.5	3.1	2.8	T
Wetted Widths (m)	2.0	1.4	1.4	1.9	1.4	2.0	1.7	T
Resid. Pool Depths (m)	0.22	0.23	0.15	0.25	0.17	0.18	0.20	MS

No Vis.Ch.	☐	Dewatered	☐	Gradients (%)	10.0	12.0	11.0	11.5	11.1	C, C
Intermittent	☐	Tributaries	☐	Bankfull Depth (m)	0.5	0.5	0.7	0.6	MS	

Stage ☒ Low	COVER - Total Moderate LWD Few Dist. Evenly Distributed						
☐ Med.	SWD	LWD	Boulder	Cutbank	Deep Pool	Over Veg	Instream Veg
☐ High	Trace	Dominant	Sub-Dominant	Trace	Trace	Trace	Trace
Crown Closure	LEFT BANK						
21-40%	Shape V - shaped (steep sloping or vertical)						
Instream Vegetation	Riparian Veg. Coniferous						
☐ None ☒ Moss	Riparian Stage Mature forest						
☐ Algae ☐ Vasc.	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	T3	pH	7.6	Method	P2	EMS #	
Conductivity	30	Method	S3	Turbidity	☐ Turbid	☐ Medium	☐ Light	☒ Clear	Method GE

MORPHOLOGY									
BED	Dominant	Cobble	D95(cm) (only 5% larger)		40				
MATERIAL	Subdominant	Boulders	D (cm) (moveable)		25				
Channel Pattern	Sinuuous	Morphology Code							
Coupling	Coupled	CP							
Confinement	Confined			Bars					
Islands	None			☒ None ☐ Mid					
				☐ Side ☐ Span					
				☐ Diag. ☐ Braid					
Abandoned channels	☐ B1	SWD	☐ D1	Extensive riffles	☐ C1	Homog. bed	☐ S1		

Site/Reach Card

Watershed Code 460-600600-64400-27800-0000-0000-000-000-000-000-000

Reach 2.0

Site # 403

Project Name Morice River Fish Inventory - 1999

Project Code 1710

Eroding banks ☐ B2	LWD ☐ D2	Minimal pool area ☐ C2	Sediment fingers ☐ S2
Avulsions ☐ B3	LWD Jam(s) ☐ D3	Elevated mid chan bars ☐ C3	Sediment wedges ☐ S3
		Mult. chan./braids ☐ C4	Extensive bars ☐ S4
Beaver dams ☐ O1		Dist. stone lines ☐ C5	Extensive scour ☐ S5

FEATURE

HABITAT QUALITY

FSZs

Side Chan ☒

Flood/Beaver ☒

Tribs. ☒

Flood Chan ☒

Slough ☒

Name	Comments
Rearing Habitat	poor rearing habitat, limited by steeper gradient and low flows.
Spawning Habitat	<1% of the area contains spawning habitat.
OverWinter Habitat	no overwintering habitat noted.

PHOTO DOCUMENTATION

Film	Compact Disc	Lens / Dir.	Comments
Roll 10 Fr 16 CD 2110 Im 288 STD U			Site 403, looking upstream at cascade/pool habitat within the reach.
Roll 10 Fr 17 CD 2110 Im 289 STD D			Site 403, looking downstream at the sampling area.

WILDLIFE

COMMENT

Form	Section	Comments
SITE	CHANNEL	C1, S6
SITE	CHANNEL	C2, steeper gradient, 25% for 100m, into the Nanika R. prevents fish access upstream.
SITE	SITE CARD	FC # 24860.

FDIS Fish Form

Watershed Code 460-600600-64400-27800-0000-0000-000-000-000-000-000

Reach # 2.0

ILP #

ILP Map #

Project Name Morice River Fish Inventory - 1999

Project Code 1710

Lake / Stream S		SITE / METHOD		Waterbody ID	
Permit 34770-20	Date: 1999/09/13	To: 1999/09/13	Crew: JD/EL	Resample ☐	
Site	NID MAP	NID	UTM:Zone/East/North/ Mthd	MTD/NO	Temp
403	93E.093	40103	9 601565 5980884	EF 1	6.0
				30	C
GEAR SETTINGS					
Site	MTD/NO	H/P	Date In	Time In	Date Out
403	EF 1	1	1999/09/13	14:00	1999/09/13
				14:50	
NET/TRAP SPECIFICATIONS					
ELECTROFISHER SPECIFICATIONS					
Site	MTD/NO	H/P	Encl	Sec.	Length
403	EF 1	1	O	328	200.0
				2.5	600
				60	0.4-8
				SR	12-B
FISH SUMMARY					
Site	MTD/NO	H/P	Species	Stage	Age
403	EF 1	1	NFC		0
INDIVIDUAL FISH DATA					
COMMENTS					



Photo #: 10 - 17
 Site 403, looking downstream at the sampling area.



Photo #: 10 - 16
 Site 403, looking upstream at cascade/pool habitat within the reach.

Site/Reach Card

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

Reach 1.0

ILP # 1394

Site # 404

ILP Map # 93E.093

Project Name Morice River Fish Inventory - 1999

Project Code 1710

REACH ATTRIBUTES										Sample Type	R	
Length (km)	.60	Elevation (m): upstream	990	downstream	896	UTM (Zone/East/North/ method)						
Gradient (%)	15.7	Order	2	Magnitude	2	BGC Zone	ESSF	9	602096	598055	GIS	
Setting	Valley Wall					Bars	☐ None ☐ Side ☐ Diagonal ☐ Mid ☐ Span ☐ Braid					
Open water	A	Wetland	☐			Mass Movement	High impact; active debris tor			Active Floodplain	☐	
Confinement	Confined					Exposed/Eroded	NONE			Width (m)		
Coupling	Coupled					Islands	NONE			Beaver Dam(s)	☐	
Channel Pattern	Straight					Landuse	None/natural			LWD Jam(s)	☐	
Riparian Vegetation	Coniferous					Valley Flat	No valley flat on either bank			(C)ontinuous (D)iscontinuous	☒ N	

SITE										
Gazetted Name	Local Name Unnamed									
Survey Date	1999/09/13	Time	15:05	Agency:	C151					
Crew	JD/EL	Access	H	MAP UTM (Zone/East/North/Method)	9	601909	5980497	GIS		
Site Length (m)	300	Method	HC	Fish Card	☒ Incomplete ☐	NID Map	93E.093	NID #	40104	

CHANNEL												
Channel Widths (m)	1.4	1.1	1.1	1.5	1.2	1.4	Average	1.3	Method(s)	T		
Wetted Widths (m)	0.9	0.8	0.9	1.0	0.6	0.8		0.8		T		
Resid. Pool Depths (m)	0.23	0.18	0.26	0.15	0.17	0.15		0.19		T		
No Vis.Ch.	☐	Dewatered	☐	Gradients (%)			10.0	12.0	13.0	12.0	11.7	C, C
Intermittent	☐	Tributaries	☐	Bankfull Depth (m)			0.4	0.4	0.3	0.4		MS

Stage	☒ Low ☐ Med. ☐ High	COVER -	Total	Moderate	LWD	Few	Dist.	Evenly Distributed
		SWD	LWD	Boulder	Cutbank	Deep Pool	Over Veg	Instream Veg
		Trace	ub-Dominant	Dominant	Trace	Trace	Trace	None
Crown Closure	21-40%	LEFT BANK			RIGHT BANK			
		Shape V - shaped (steep sloping or vertical)			Shape Overhanging bank			
		Riparian Veg. Coniferous			Riparian Veg. Coniferous			
		Riparian Stage Mature forest			Riparian Stage Mature forest			
Instream Vegetation		Texture ☐ Fines ☒ Gravel ☒ Cobble			Texture ☒ Fines ☒ Gravel ☐ Cobble			
		☐ Algae ☐ Vasc.			☐ Boulder ☐ Rock ☐ Man Made			

WATER									
Temperature	7	Methoc	T3	pH	7.4	Method	P2	EMS #	
Conductivity	40	Method	S3	Turbidity	☐ Turbid ☐ Medium ☐ Light ☒ Clear	Method	GE		

MORPHOLOGY									
BED	Dominan Cobble			D95(cm) (only 5%larger)			40		
MATERIAL	Subdominant Boulders			D (cm) (moveable)			20		
Channel Pattern	Irregular, Wandering								
Coupling	Coupled								
Confinement	Confined								
Islands	None								
Morphology Code					Bars				
CP					☒ 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 # 1394

Site # 404

ILP Map # 93E.093

Project Name Morice River Fish Inventory - 1999

Project Code 1710

Abandoned channel ☐ B1	SWD ☐ D1	Extensive riffle ☐ C1	Homog. be ☐ S1
Eroding bank ☐ B2	LWD ☐ D2	Minimal pool area ☐ C2	Sediment finger ☐ S2
Avulsion ☐ B3	LWD Jam(s) ☐ D3	Elevated mid chan bar ☐ C3	Sediment wedge ☐ S3
		Mult. chan./braid ☐ C4	Extensive bar ☐ S4
Beaver dam ☐ O1		Dist. stone line ☐ C5	Extensive sco ☐ S5

FEATURES**HABITAT QUALITY**

FSZs

Side Chan ☐Flood/Beave ☐Tribes ☐Flood-Cha ☐Sloug ☐

Name	Comments
Rearing Habitat	poor rearing habitat, small stream with few deep pools, steep gradient and low flows.
Spawning Habitat	<1% of the area contains spawning habitat.
OverWinter Habitat	no overwintering habitat present.

PHOTO DOCUMENTATION

Film	Compact Disc	Lens / Dir.	Comments
Roll 10 Fr 18 CD 2110 Im 290 STD U	Site 404, looking upstream at representative habitat within the reach.		
Roll 10 Fr 19 CD 2110 Im 291 STD D	Site 404, looking downstream at representative habitat within the reach.		

WILDLIFE**COMMENTS**

Form	Section	Comments
SITE	CHANNEL	C1, S6
SITE	CHANNEL	C2, 26% slope for 100m prevents fish access upstream.
SITE	SITE CARD	C6, FC # 24896.

FDIS Fish Form

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

Reach # 1.0

ILP # 1394

ILP Map # 93E.093

Project Name Morice River Fish Inventory - 1999

Project Code 1710

Lake / Stream		S	SITE / METHOD				Waterbody ID					
Permit	34770-20		Date:	1999/09/13	To:	1999/09/13	Crew:	EL/JD	Resample ☐			
Site	NID MAP	NID	UTM:Zone/East/North/ Mthd		MTD/NO	Temp	Cond	Turbid	Comment			
404	93E.093	40104	9	601909	5980497	EF	1	7.0	40	C		
GEAR SETTINGS												
Site	MTD/NO	H/P	Date In	Time In	Date Out	Time Out	Comment					
404	EF	1	1	1999/09/13	15:05	1999/09/13	16:00					
NET/TRAP SPECIFICATIONS												
ELECTROFISHER SPECIFICATIONS												
Site	MTD/NO	H/P	Encl	Sec.	Length	Width	Volts	Hz	Pulse	Make	Model	
404	EF	1	1	O	353	300.0	1.2	600	60	0.4-8	SR	12-B
FISH SUMMARY												
Site	MTD/NO	H/P	Species	Stage	Age	Total #	Lgth (Min/Max)	Activity	Comment			
404	EF	1	1	NFC		0						
INDIVIDUAL FISH DATA												
COMMENTS												



Photo #: 10 - 19

Site 404, looking downstream at representative habitat within the reach.



Photo #: 10 - 18

Site 404, looking upstream at representative habitat within the reach.

Site/Reach Card

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

Reach 1.0

ILP # 1393

Site # 405

ILP Map # 93E.093

Project Name Morice River Fish Inventory - 1999

Project Code 1710

REACH ATTRIBUTES										Sample Type	B	
Length (km)	.75	Elevation (m): upstream	1000	downstream	896	UTM (Zone/East/North/ method)						
Gradient (%)	13.9	Order	2	Magnitude	2	BGC Zone	ESSF	9	602170	598015	GIS	
Setting	Valley Wall					Bars	☐ None ☐ Side ☐ Diagonal ☐ Mid ☐ Span ☐ Braid					
Open water	A	Wetland	☐			Mass Movement	High impact; active debris tor			Active Floodplain	☐	
Confinement	Confined					Exposed/Eroded	NONE			Width (m)		
Coupling	Coupled					Islands	NONE			Beaver Dam(s)	☐	
Channel Pattern	Straight					Landuse	None/natural			LWD Jam(s)	☐	
Riparian Vegetation	Coniferous					Valley Flat	No valley flat on either bank			(C)ontinuous (D)iscontinuous	☒ N	

SITE										
Gazetted Name	Local Name Unnamed									
Survey Date	1999/09/13	Time	16:00	Agency:	C151					
Crew	EL/JD	Access	H	MAP UTM (Zone/East/North/Method)	9	601851	5980101	GIS		
Site Length (m)	400	Method	HC	Fish Card	☒ Incomplete ☐	NID Map	93E.093	NID #	40105	

CHANNEL										Average	Method(s)
Channel Widths (m)	2.1	1.3	1.3	2.0	1.0	1.5				1.5	MS
Wetted Widths (m)	1.5	1.0	1.0	1.3	1.1	1.1				1.2	MS
Resid. Pool Depths (m)	0.36	0.37	0.41	0.26	0.23	0.35				0.33	MS

No Vis.Ch.	☐	Dewatered	☐	Gradients (%)	10.0	12.0	12.0	11.0	11.2	C, C
Intermittent	☐	Tributaries	☐	Bankfull Depth (m)	0.5	0.6	0.5	0.5	0.5	MS

Stage ☐ Low
☒ Med.
☐ High

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

Crown Closure
1-20%

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	7	Methoc	T3	pH	7.4	Method	P2	EMS #	
Conductivity	30	Method	S3	Turbidity	☐ Turbid ☐ Medium ☐ Light ☒ Clear	Method	GE		

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

Channel Pattern Sinuous
Coupling Coupled
Confinement Confined
Islands None

Morphology Code
CP

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 # 1393

Site # 405

ILP Map # 93E.093

Project Name Morice River Fish Inventory - 1999

Project Code 1710

Abandoned channel ☐ B1	SWD ☐ D1	Extensive riffle ☐ C1	Homog. be ☐ S1
Eroding bank ☐ B2	LWD ☐ D2	Minimal pool are ☐ C2	Sediment finger ☐ S2
Avulsion ☐ B3	LWD Jam(s) ☐ D3	Elevated mid chan bar ☐ C3	Sediment wedge ☐ S3
		Mult. chan./braid ☐ C4	Extensive bar ☐ S4
Beaver dam ☐ O1		Dist. stone line ☐ C5	Extensive sco ☐ S5

FEATURES

HABITAT QUALITY

FSZs

Side Chan ☐

Flood/Beave ☐

Tribs ☐

Flood Cha ☐

Sloug ☐

Name	Comments
Rearing Habitat	moderate rearing habitat, abundant cover and flows.
Spawning Habitat	<1% of the habitat is suited to spawning.
OverWinter Habitat	no overwintering habitat.

PHOTO DOCUMENTATION

Film	Compact Disc	Lens / Dir.	Comments
Roll 10 Fr 20 CD 2110 Im 292 STD D	Site 405, looking downstream at cobble habitat.		
Roll 10 Fr 21 CD 2110 Im 293 STD U	Site 405, looking upstream.		
Roll 10 Fr 22 CD 2110 Im 294 STD U	Site 405, looking upstream at crew member.		

WILDLIFE

COMMENTS

Form	Section	Comments
SITE	CHANNEL	C1, S3
SITE	CHANNEL	C2, DV captured in the lower portion of the reach.
SITE	CHANNEL	C6, Fc # 24897.

FDIS Fish Form

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

Reach # 1.0

ILP # 1393

ILP Map # 93E.093

Project Name Morice River Fish Inventory - 1999

Project Code 1710

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

Permit 34770-20 Date: 1999/09/13 To: 1999/09/13 Crew: JD/EL Resample ☐

Site	NID MAP	NID	UTM:Zone/East/North/	Mthd	MTD/NO	Temp	Cond	Turbid	Comment
405	93E.093	40105	9 601851 5980101	EF	1	7.0	30	C	

GEAR SETTINGS

Site	MTD/NO	H/P	Date In	Time In	Date Out	Time Out	Comment
405	EF 1	1	1999/09/13	16:00	1999/09/13	16:40	

NET/TRAP SPECIFICATIONS

ELECTROFISHER SPECIFICATIONS

Site	MTD/NO	H/P	Encl	Sec.	Length	Width	Volts	Hz	Pulse	Make	Model
405	EF 1	1	O	515	400.0	1.6	600	60	0.4-8	SR	12-B

FISH SUMMARY

Site	MTD/NO	H/P	Species	Stage	Age	Total #	Lgth (Min/Max)	Activity	Comment
405	EF 1	1	DV	J		3	98 121	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.		
405	EF 1	1	DV	121		U	U				10 23		
405	EF 1	1	DV	98		U	U						
405	EF 1	1	DV	106		U	U						

COMMENTS



Photo #: 10 - 20
Site 405, looking downstream at cobble habitat.



Photo #: 10 - 22
Site 405, looking upstream at crew member.



Photo #: 10 - 21
Site 405, looking upstream.



Photo #: 10 - 23
Site 405, photo of a 121 mm dolly varden.

Site/Reach Card

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

Reach 1.0

ILP # 1278

Site # 406

ILP Map # 93E.093

Project Name Morice River Fish Inventory - 1999

Project Code 1710

REACH ATTRIBUTES										Sample Type	R	
Length (km)	.32	Elevation (m): upstream	925	downstream	873	UTM (Zone/East/North/ method)						
Gradient (%)	16.3	Order	2	Magnitude	3	BGC Zone	SBS	9	600958	598257	GIS	
Setting	Valley Wall					Bars	☐ None ☐ Side ☐ Diagonal ☐ Mid ☐ Span ☐ Braid					
Open water	A	Wetland	☐			Mass Movement	High impact; active debris tor			Active Floodplain	☐	
Confinement	Confined					Exposed/Eroded	NONE			Width (m)		
Coupling	Coupled					Islands	NONE			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	☐ N	

SITE										
Gazetted Name	Local Name Unnamed									
Survey Date	1999/09/13	Time	17:00	Agency:	C151					
Crew	ELJJD	Access	H	MAP UTM (Zone/East/North/Method)	9	601041	5982545	GIS		
Site Length (m)	200	Method	NS	Fish Card	☒ Incomplete ☐	NID Map	93E.093	NID #	40106	

CHANNEL										Average	Method(s)	
Channel Widths (m)	2.7	2.4	3.1	2.7	2.4	2.4				2.6	T	
Wetted Widths (m)	2.1	2.1	2.9	2.2	2.1	2.0				2.2	T	
Resid. Pool Depths (m)	0.46	0.39	0.45	0.36	0.48	0.31				0.41	MS	
No Vis.Ch.	☐	Dewatered	☐	Gradients (%)			15.0	18.0	16.0	17.0	16.5	C, C
Intermittent	☐	Tributaries	☐	Bankfull Depth (m)			0.6	0.7	0.6	0.6	0.6	MS

Stage	☐ Low	☒ Med.	☐ High	<table border="1"> <thead> <tr> <th colspan="2">COVER -</th> <th>Total</th> <th>Abundant</th> <th>LWD</th> <th>Few</th> <th>Dist.</th> <th>Evenly Distributed</th> </tr> <tr> <th>SWD</th> <th>LWD</th> <th>Boulder</th> <th>Cutbank</th> <th>Deep Pool</th> <th>Over Veg</th> <th>Instream Veg</th> <th></th> </tr> </thead> <tbody> <tr> <td>Trace</td> <td>Trace</td> <td>Dominant</td> <td>None</td> <td>ub-Dominant</td> <td>Trace</td> <td>None</td> <td></td> </tr> </tbody> </table>								COVER -		Total	Abundant	LWD	Few	Dist.	Evenly Distributed	SWD	LWD	Boulder	Cutbank	Deep Pool	Over Veg	Instream Veg		Trace	Trace	Dominant	None	ub-Dominant	Trace	None																																																		
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Crown Closure	21-40%																																																																																			
Instream Vegetation	<table border="1"> <thead> <tr> <th colspan="6">LEFT BANK</th> <th colspan="6">RIGHT BANK</th> </tr> </thead> <tbody> <tr> <td colspan="6">Shape V - shaped (steep sloping or vertical)</td> <td colspan="6">Shape V - shaped (steep sloping or vertical)</td> </tr> <tr> <td colspan="6">Riparian Veg. Coniferous</td> <td colspan="6">Riparian Veg. Coniferous</td> </tr> <tr> <td colspan="6">Riparian Stage Mature forest</td> <td colspan="6">Riparian Stage Mature forest</td> </tr> <tr> <td colspan="6">Texture ☐ Fines ☐ Gravel ☒ Cobble</td> <td colspan="6">Texture ☐ Fines ☒ Gravel ☒ Cobble</td> </tr> <tr> <td colspan="6">☒ Boulder ☐ Rock ☐ Man Made</td> <td colspan="6">☐ Boulder ☐ Rock ☐ Man Made</td> </tr> </tbody> </table>												LEFT BANK						RIGHT BANK						Shape V - shaped (steep sloping or vertical)						Shape V - shaped (steep sloping or vertical)						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					
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☒ Boulder ☐ Rock ☐ Man Made						☐ Boulder ☐ Rock ☐ Man Made																																																																														

WATER									
Temperature	8	Methoc	T3	pH	7.2	Method	P2	EMS #	
Conductivity	30	Method	S3	Turbidity	☐ Turbid ☐ Medium ☐ Light ☒ Clear	Method	GE		

MORPHOLOGY									
BED	Dominan Boulders			D95(cm) (only 5%larger)	70				
MATERIAL	Subdominant Cobble			D (cm) (moveable)	35				

Channel Pattern Sinuous
Coupling Coupled
Confinement Confined
Islands None

Morphology Code
CP

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 # 1278

Site # 406

ILP Map # 93E.093

Project Name Morice River Fish Inventory - 1999

Project Code 1710

Abandoned channel ☐ B1	SWD ☐ D1	Extensive riffle ☐ C1	Homog. be ☐ S1
Eroding bank ☐ B2	LWD ☐ D2	Minimal pool are ☐ C2	Sediment finger ☐ S2
Avulsion ☐ B3	LWD Jam(s) ☐ D3	Elevated mid chan bar ☐ C3	Sediment wedge ☐ S3
		Mult. chan./braid ☐ C4	Extensive bar ☐ S4
Beaver dam ☐ O1		Dist. stone line ☐ C5	Extensive sco ☐ S5

FEATURES

Type F	Height 12.0	Method GE	Length 3	Method GE
Comments barrier to fish migration u/s.				
Photograph Roll 11	Frame 2	UTM (Zone/East/North/ Method)	9 601136	598254 GIS
Type C	Height 4.0	Method GE	Length 4	Method GE
Comments directly below the falls.				
Photograph Roll 11	Frame 1	UTM (Zone/East/North/ Method)	9 601200	598254 GIS
Type FSZ	Height	Method	Length	Method
Comments CO in side channel at Nanika confluence.				
Photograph Roll	Frame	UTM (Zone/East/North/ Method)	9 601391	598269 GIS

HABITAT QUALITY

FSZs ☐ Side Chan ☐ Flood/Beave ☐
Tribes ☐ Flood Cha ☐ Sloug ☐

Name	Comments
Spawning Habitat	no spawning habitat, boulder/cobble substrate.
Rearing Habitat	poor rearing, gradient is too steep.

PHOTO DOCUMENTATION

Film	Compact Disc	Lens / Dir.	Comments
Roll 11 Fr 3 CD 2110 Im 300 STD U	Site 406, looking upstream at boulder/cascade habitat.		
Roll 11 Fr 4 CD 2110 Im 301 STD D	Site 406, looking downstream at boulder/cascade habitat.		
Roll 11 Fr 1 CD 2110 Im 298 STD U	Site 406, looking upstream at cascades below the falls.		
Roll 11 Fr 2 CD 2110 Im 299 STD U	Site 406, looking upstream at a 12.0m falls barrier to fish migration.		
Roll 10 Fr 25 CD 2110 Im 297 STD U	Site 406, looking upstream at cascades below the falls.		

WILDLIFE

COMMENTS

Form	Section	Comments
SITE	CHANNEL	C1, S6.
SITE	CHANNEL	C2, falls and cascades prevent fish migration upstream.
SITE	CHANNEL	C6, FC # 24862.
SITE	CHANNEL	C10, CO noted in a side channel of the Nanika at the confluence with ILP 1278.

FDIS Fish Form

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

Reach # 1.0

ILP # 1278

ILP Map # 93E.093

Project Name Morice River Fish Inventory - 1999

Project Code 1710

Lake / Stream	S	SITE/METHOD				Waterbody ID	
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Permit 34770-20 Date: 1999/09/13 To: 1999/09/13 Crew: JD/EL Resample ☐

Site	NID MAP	NID	UTM:Zone/East/North/ Mthd	MTD/NO	Temp	Cond	Turbid	Comment
406	93E.093	40106	9 601041 5982545	EF 1	8.0	30	C	

GEAR SETTINGS

Site	MTD/NO	H/P	Date In	Time In	Date Out	Time Out	Comment
406	EF 1	1	1999/09/13	17:10	1999/09/13	17:50	

NET/TRAP SPECIFICATIONS

ELECTROFISHER SPECIFICATIONS

Site	MTD/NO	H/P	Encl	Sec.	Length	Width	Volts	Hz	Pulse	Make	Model
406	EF 1	1	O	209	200.0	2.6	600	60	6	SR	12-B

FISH SUMMARY

Site	MTD/NO	H/P	Species	Stage	Age	Total #	Lgth (Min/Max)	Activity	Comment
406	EF 1	1	CO	F		1	42 42	R	captured at mouth, u/s of side channel.

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
406	EF 1	1	CO	42		U	U				10 24	

COMMENTS



Photo #: 11 - 4
Site 406, looking downstream at boulder/cascade habitat.



Photo #: 11 - 2
Site 406, looking upstream at a 12.0m falls barrier to fish migration.



Photo #: 11 - 3
Site 406, looking upstream at boulder/cascade habitat.



Photo #: 10 - 25
Site 406, looking upstream at cascades below the falls.



Photo #: 11 - 1
Site 406, looking upstream at cascades below the falls.

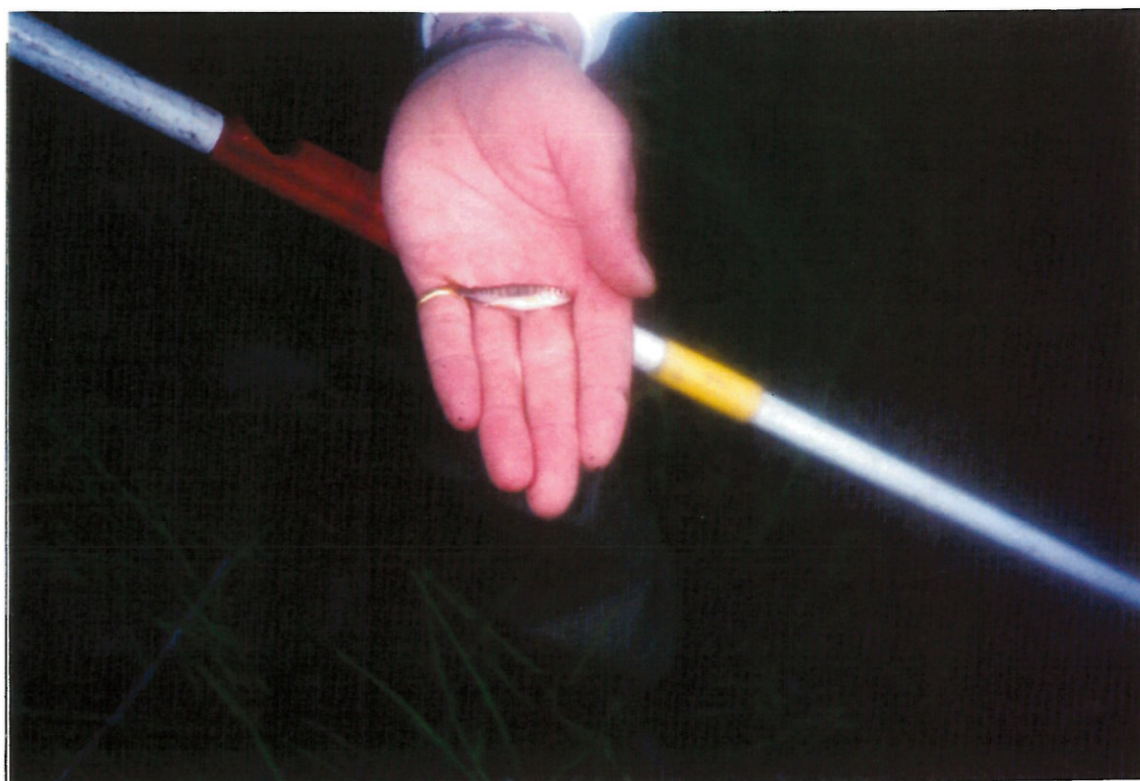


Photo #: 10 - 24
Site 406, photo of a 42 mm coho.

Site/Reach Card

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

Reach 2.0

ILP # 1027

Site # 407

ILP Map # 93L.004

Project Name Morice River Fish Inventory - 1999

Project Code 1710

REACH ATTRIBUTES										Sample Type		
Length (km)	.65	Elevation (m): upstream	940	downstream	915	UTM (Zone/East/North/ method)					B	
Gradient (%)	3.9	Order	1	Magnitude	1	BGC Zone	SBS	9	615848	598816	GIS	
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	NONE				Width (m)	☐		
Coupling	Partially Coupled			Islands	NONE				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	☐ N		
									(D)iscontinuous	☐		

SITE										
Gazetted Name	Local Name Unnamed									
Survey Date	1999/09/15	Time	08:30	Agency:	C151					
Crew	JD/EL	Access	H.	MAP UTM (Zone/East/North/Method)	9	616161	5988258	GIS		
Site Length (m)	200	Method	HC	Fish Card	☒ Incomplete	☐	NID Map	93L.004	NID #	40107

CHANNEL										
Channel Widths (m)	1.3	1.3	1.2	1.4	1.2	1.5	Average	1.3	Method(s)	MS
Wetted Widths (m)	0.4	0.5	0.6	0.7	0.6	0.6	0.6	MS		
Resid. Pool Depths (m)	0.06	0.07	0.08	0.10	0.06	0.07	0.07	MS		
No Vis.Ch.	☐	Dewatered	☐	Gradients (%)	4.0	5.0	6.0	6.0	5.2	C, C
Intermittent	☐	Tributaries	☐	Bankfull Depth (m)	0.2	0.3	0.2	0.2	MS	

Stage	☒ Low	COVER -	Total	Moderate	LWD Few	Dist.	Evenly Distributed
	☐ Med.	SWD	LWD	Boulder	Cutbank	Deep Pool	Over Veg
	☐ High	None	ub-Dominant	None	ub-Dominant	None	Dominant
Crown Closure	1-20%	LEFT BANK	RIGHT BANK				
Instream Vegetation		Shape Overhanging bank	Shape Overhanging bank				
☐ None	☒ Moss	Riparian Veg. Deciduous	Riparian Veg. Coniferous				
☐ Algae	☒ Vasc.	Riparian Stage Pole-sapling stage	Riparian Stage Young forest				
		Texture ☒ Fines	☐ Gravel	☐ Cobble	Texture ☒ Fines	☐ Gravel	☐ Cobble
		☐ Boulder	☐ Rock	☐ Man Made	☐ Boulder	☐ Rock	☐ Man Made

WATER									
Temperature	7	Methoc T3	pH	7.4	Method P2	EMS #			
Conductivity	50	Method S3	Turbidity	☐ Turbid	☐ Medium	☐ Light	☒ Clear	Method GE	

MORPHOLOGY									
BED	Dominant Cobble				D95(cm) (only 5% larger)	25			
MATERIAL	Subdominant Fines				D (cm) (moveable)	2			
Channel Pattern	Sinuous				Morphology Code	RP	Bars	☒ None	☐ Mid
Coupling	Partially Coupled						☐ Side	☐ Span	
Confinement	Frequently Confined						☐ Diag.	☐ Braid	
Islands	None								

Site/Reach Card

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

Reach 2.0
Site # 407

ILP # 1027
ILP Map # 93L.004

Project Name Morice River Fish Inventory - 1999

Project Code 1710

Abandoned channel ☐ B1	SWD ☐ D1	Extensive riffle ☐ C1	Homog. be ☐ S1
Eroding bank ☐ B2	LWD ☐ D2	Minimal pool are ☐ C2	Sediment finger ☐ S2
Avulsion ☐ B3	LWD Jam(s) ☐ D3	Elevated mid chan bar ☐ C3	Sediment wedge ☐ S3
		Mult. chan./braid ☐ C4	Extensive bar ☐ S4
Beaver dam ☐ O1		Dist. stone line ☐ C5	Extensive sco ☐ S5

FEATURES

Type C Height 2.4 Method GE Length 2 Method GE

Comments barrier to u/s migration.

Photograph Roll Frame UTM (Zone/East/North/ Method) 9 616335 598831 GIS

HABITAT QUALITY

FSZs ☐ Side Chan ☐ Flood/Beave ☐
Tribes ☐ Flood Cha ☐ Sloug ☐

Name	Comments
Rearing Habitat	Poor, dominated by fines and low flows, ephemeral drainage.
Spawning Habitat	No spawning habitat.
OverWinter Habitat	No overwintering.

PHOTO DOCUMENTATION

Film	Compact Disc	Lens / Dir.	Comments
Roll 11 Fr 6 CD 2110 1m 303 STD D	Site 407, looking downstream at riparian cover.		
Roll 11 Fr 7 CD 2110 1m 304 STD U	Site 407, looking upstream at stagnant pools.		
Roll 11 Fr 5 CD 2110 1m 302 STD U	Site 407, looking upstream at a 2.4m bedrock cascade.		

WILDLIFE

COMMENTS

Form	Section	Comments
SITE	CHANNEL	C1, S6/S4*
SITE	CHANNEL	C2, bedrock cascade blocks upstream fish migration.
SITE	SITE CARD	C6, FC # 24870.

FDIS Fish Form

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

Reach # 2.0

ILP # 1027

ILP Map # 93L.004

Project Name Morice River Fish Inventory - 1999

Project Code 1710

Lake/Stream	S	SITE/METHOD	Waterbody ID
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Permit 34770-20 Date: 1999/09/15 To: 1999/09/15 Crew: JD/EL Resample ☐

Site	NID MAP	NID	UTM:Zone/East/North/ Mthd	MTD/NO	Temp	Cond	Turbid	Comment
407	93L.004	40107	9 616161 5988258	EF 1	7.0	50	C	

GEAR SETTINGS							
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Site	MTD/NO	H/P	Date In	Time In	Date Out	Time Out	Comment
407	EF 1	1	1999/09/15	08:30	1999/09/15	09:30	

NET/TRAP SPECIFICATIONS											
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ELECTROFISHER SPECIFICATIONS											
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Site	MTD/NO	H/P	Encl	Sec.	Length	Width	Volts	Hz	Pulse	Make	Model
407	EF 1	1	O	131	200.0	1.0	600	60	6	SR	12-B

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

INDIVIDUAL FISH DATA									
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COMMENTS									
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Photo #: 11 - 6
Site 407, looking downstream at riparian cover.



Photo #: 11 - 5
Site 407, looking upstream at a 2.4m bedrock cascade.



Photo #: 11 - 7
Site 407, looking upstream at stagnant pools.

Site/Reach Card

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

Reach 9.0
Site # 408

ILP # 1500
ILP Map # 93L.003

Project Name Morice River Fish Inventory - 1999

Project Code 1710

REACH ATTRIBUTES										Sample Type	R	
Length (km)	.22	Elevation (m): upstream	878	downstream	876	UTM (Zone/East/North/ method)						
Gradient (%)	0.9	Order	2	Magnitude	2	BGC Zone	SBS	9	607737	598874	GIS	
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	NONE				Width (m)	☐		
Coupling	Decoupled			Islands	NONE				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	☒ N		
									(D)iscontinuous	☐		

SITE										
Gazetted Name	Local Name Unnamed									
Survey Date	1999/09/15	Time	09:50	Agency:	C151					
Crew	JD/EL	Access	H	MAP UTM (Zone/East/North/Method)	9	607662	5988686	GIS		
Site Length (m)	220	Method	HC	Fish Card	☒ Incomplete	☐	NID Map	93L.004	NID #	40108

CHANNEL										
Channel Widths (m)	1.6	1.6	1.7	1.4	1.3	1.6	Average	1.5	Method(s)	MS
Wetted Widths (m)	1.1	1.1	1.3	1.1	1.2	1.4		1.2		MS
Resid. Pool Depths (m)	0.71	0.86	0.91	0.41	0.52	0.39		0.63		MS
No Vis.Ch.	☐	Dewatered	☐	Gradients (%)	1.0	1.5	10.0	1.5	3.5	C, C
Intermittent	☐	Tributaries	☐	Bankfull Depth (m)	0.2	0.3	0.4	0.3		MS

Stage	☐ Low	COVER - Total Abundant LWD Few Dist. Evenly Distributed							
	☒ Med.	SWD	LWD	Boulder	Cutbank	Deep Pool	Over Veg	Instream Veg	
	☐ High	Trace	Trace	None	Trace	ub-Dominant	ub-Dominant	Dominant	
Crown Closure	1-20%	LEFT BANK				RIGHT BANK			
Instream Vegetation		Shape Overhanging bank				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

WATER										
Temperature	8	Methoc	T3	pH	7.1	Method	P2	EMS #		
Conductivity	60	Method	S3	Turbidity	☐ Turbid	☐ Medium	☐ Light	☒ Clear	Method	GE

MORPHOLOGY									
BED	Dominant Cobble				D95(cm) (only 5%larger)	30			
MATERIAL	Subdominant Fines				D (cm) (moveable)	3			
Channel Pattern	Sinuous								
Coupling	Decoupled								
Confinement	Unconfined								
Islands	None								
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 9.0
Site # 408

ILP # 1500
ILP Map # 93L.003

Project Name Morice River Fish Inventory - 1999

Project Code 1710

Abandoned channel ☐ B1	SWD ☐ D1	Extensive riffle ☐ C1	Homog. be ☐ S1
Eroding bank ☐ B2	LWD ☐ D2	Minimal pool are ☐ C2	Sediment finger ☐ S2
Avulsion ☐ B3	LWD Jam(s) ☐ D3	Elevated mid chan bar ☐ C3	Sediment wedge ☐ S3
		Mult. chan./braid ☐ C4	Extensive bar ☐ S4
Beaver dam ☐ O1		Dist. stone line ☐ C5	Extensive sco ☐ S5

FEATURES

Type BD Height 1.2 Method GE Length 25 Method GE

Comments temporary barrier to fish migration

Photograph Roll 11 Frame 10 UTM (Zone/East/North/ Method) 9 607551 598863 GIS

HABITAT QUALITY

FSZs ☐ Side Chan ☐ Flood/Beave ☐
Tribes ☐ Flood Cha ☐ Sloug ☐

Name	Comments
Rearing Habitat	Moderate rearing habitat, abundant cover, good flows.
Spawning Habitat	Poor spawning habitat.
OverWinter Habitat	Deep pools up to 90cm noted.

PHOTO DOCUMENTATION

Film	Compact Disc	Lens / Dir.	Comments
Roll 11 Fr 8 CD 2110 Im 305 STD U	Site 408, looking upstream at vascular plants in the channel.		
Roll 11 Fr 9 CD 2110 Im 306 STD D	Site 408, looking downstream at vascular plants in the channel.		
Roll 11 Fr 10 CD 2110 Im 307 STD U	Site 408, looking upstream at a 1.2m beaver dam.		

WILDLIFE

COMMENTS

Form	Section	Comments
SITE	CHANNEL	C1, S3
SITE	CHANNEL	C2, accessible reach, classified as fishbearing.
SITE	CHANNEL	C6, FC # 24864
SITE	SITE CARD	Actual site length was 300 m

FDIS Fish Form

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

Reach # 9.0

ILP # 1500

ILP Map # 93L.003

Project Name Morice River Fish Inventory - 1999

Project Code 1710

Lake/Stream	S	SITE/METHOD				Waterbody ID	
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Permit 34770-20 Date: 1999/09/13 To: 1999/09/13 Crew: JD/EL Resample ☐

Site	NID MAP	NID	UTM:Zone/East/North/ Mthd	MTD/NO	Temp	Cond	Turbid	Comment
408	93L.004	40108	9 607662 5988686	EF 1	8.0	60	C	

GEAR SETTINGS							
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Site	MTD/NO	H/P	Date In	Time In	Date Out	Time Out	Comment
408	EF 1	1	1999/09/13	09:50	1999/09/13	10:20	

NET/TRAP SPECIFICATIONS											
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ELECTROFISHER SPECIFICATIONS											
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Site	MTD/NO	H/P	Encl	Sec.	Length	Width	Volts	Hz	Pulse	Make	Model
408	EF 1	1	O	265	300.0	1.5	600	60	0.4-8	SR	12-B

FISH SUMMARY											
--------------	--	--	--	--	--	--	--	--	--	--	--

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

INDIVIDUAL FISH DATA											
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COMMENTS											
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Photo #: 11 - 10
Site 408, looking upstream at a 1.2m beaver dam.



Photo #: 11 - 8
Site 408, looking upstream at vascular plants in the channel.



Photo #: 11 - 9
Site 408, looking downstream at vascular plants in the channel.

Site/Reach Card

Watershed Cod 460-600600-57600-31800-0000-0000-000-000-000-000-000

Reach 8.0

Site # 409

Project Name Morice River Fish Inventory - 1999

Project Code 1710

REACH ATTRIBUTES									
Length (km)	.62	Elevation (m): upstrea	960	downstream	960	UTM (Zone/East/North/ method)			
Gradient (%)	0.0	Order 1	Magnitude 1	BGC Zone	SBS	9	607449	599602	GIS
Setting	Mountain Plateau			Bars	☐ None ☐ Side ☐ Diagonal ☐ Mid ☐ Span ☐ Braid				
Open water	A	Wetland	☒	Mass Movement	Low or no impact to channel;			Active Floodplai	☐
Confinement	Unconfined			Exposed/Eroded	NONE			Width (m)	
Coupling	Decoupled			Islands	NONE			Beaver Dam(s)	☐
Channel Pattern	Sinuous			Landuse	None/natural			LWD jam(s)	☐
Riparian Vegetation	Wetland			Valley Flat	No valley flat on either bank			(C)ontinuous (D)iscontinuous	☒

SITE									
Gazetted Name				Local Name	Unnamed				
Survey Date	1999/09/15	Time	11:15	Agency	C152				
Crew	JD/EL	Access	H	MAP UTM (Zone/East/North/Method)	9	607738	5996077	GIS	
Site Length (m)	100	Method	HC	Fish Card	☐ Incomplete ☐	NID Map	93L.014	NID #	40109

CHANNEL									
No Visible Channe ☒									
Gradient(s) (%)	2.0	1.5	1.0	1.0					
Vegetation									
Veg. Stage									

FEATURE									
HABITAT QUALITY									
				FSZs	Side Chan	Flood/Beave			
				Tribs	Flood Cha	Sloug			

Name	Comments
Spawning Habitat	no potential spawning, rearing or overwintering habitat.

PHOTO DOCUMENTATION									
Film	Compact Disc	Lens / Dir.	Comments						
Roll 11	Fr 11 CD 2110	Im 308 STD U	Site 409, photo of a wetland reach with no defined channel.						
Roll 11	Fr 12 CD 2110	Im 309 STD D	Site 409, photo of a wetland reach with no defined channel.						

COMMENT		
Form	Section	Comments
SITE	CHANNEL	C1, NVC.
SITE	CHANNEL	C2, no bed scour, no connectivity, no channel, willow wetland.



Photo #: 11 - 11
Site 409, photo of a wetland reach with no defined channel.



Photo #: 11 - 12
Site 409, photo of a wetland reach with no defined channel.

Site/Reach Card

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

Reach 1.0
Site # 410

ILP # 1196
ILP Map # 93L.014

Project Name Morice River Fish Inventory - 1999

Project Code 1710

REACH ATTRIBUTES										Sample Type	B	
Length (km)	.67	Elevation (m): upstream	898	downstream	874	UTM (Zone/East/North/ method)						
Gradient (%)	3.6	Order	1	Magnitude	1	BGC Zone	SBS	9	611351	599578	GIS	
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	Frequently Confined			Exposed/Eroded	NONE				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	No valley flat on either bank				(C)ontinuous	☐ N		
								(D)iscontinuous				

SITE										
Gazetted Name	Local Name Unnamed									
Survey Date	1999/09/15	Time	12:00	Agency:	C151					
Crew	JD/EL	Access	H	MAP UTM (Zone/East/North/Method)	9	611070	5995666	GIS		
Site Length (m)	400	Method	HC	Fish Card	☒	Incomplete	☐	NID Map	93L.004	
								NID #	40110	

CHANNEL										
Channel Widths (m)	1.4	1.3	1.2	1.4	1.3	1.4	Average	1.3	Method(s)	MS
Wetted Widths (m)	0.9	0.9	1.0	0.8	0.8	0.9		0.9		MS
Resid. Pool Depths (m)	0.10	0.06	0.07	0.08	0.06	0.05		0.07		MS
No Vis.Ch.	☐	Dewatered	☐	Gradients (%)	2.0	3.0	3.5	2.5	2.7	C, C
Intermittent	☐	Tributaries	☐	Bankfull Depth (m)	0.2	0.3	0.3		0.3	MS

Stage	☒ Low	COVER -	Total	Abundant	LWD	Few	Dist.	Evenly Distributed
	☐ Med.	SWD	LWD	Boulder	Cutbank	Deep Pool	Over Veg	Instream Veg
	☐ High	Trace	ub-Dominant	None	Trace	None	Dominant	Trace
Crown Closure	21-40%	LEFT BANK			RIGHT BANK			
Instream Vegetation		Shape Sloping (gradual or shallow sloping)			Shape Sloping (gradual or shallow sloping)			
☐ None	☐ Moss	Riparian Veg. Mixed C/D			Riparian Veg. Deciduous			
☐ Algae	☒ Vasc.	Riparian Stage Mature forest			Riparian Stage Mature forest			
		Texture	☒ Fines	☐ Gravel	☐ Cobble	Texture	☒ Fines	☐ Gravel
			☐ Boulder	☐ Rock	☐ Man Made		☐ Boulder	☐ Rock
							☐ Man Made	

WATER									
Temperature	7	Methoc	T3	pH	7.4	Method	P2	EMS #	
Conductivity	50	Method	S3	Turbidity	☐ Turbid	☐ Medium	☐ Light	☒ Clear	Method
									GE

MORPHOLOGY									
BED	Dominant Fines			D95(cm) (only 5%larger)	20				
MATERIAL	Subdominant Cobble			D (cm) (moveable)	4				

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

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 1.0
Site # 410

ILP # 1196
ILP Map # 93L.014

Project Name Morice River Fish Inventory - 1999

Project Code 1710

Abandoned channel ☐ B1	SWD ☐ D1	Extensive riffle ☐ C1	Homog. be ☐ S1
Eroding bank ☐ B2	LWD ☐ D2	Minimal pool are ☐ C2	Sediment finger ☐ S2
Avulsion ☐ B3	LWD Jam(s) ☐ D3	Elevated mid chan bar ☐ C3	Sediment wedge ☐ S3
		Mult. chan./braid ☐ C4	Extensive bar ☐ S4
Beaver dam ☐ O1		Dist. stone line ☐ C5	Extensive sco ☐ S5

FEATURES

HABITAT QUALITY

FSZs

Side Chan ☐

Flood/Beave ☐

Tribs ☐

Flood Cha ☐

Sloug ☐

Name	Comments
Spawning Habitat	poor spawning habitat, substrate dominated by fines, <1% of the available area.
Rearing Habitat	poor rearing habitat, standing H2o, low flows, fine substrate.
OverWinter Habitat	no overwintering habitat, no pools >50cm.

PHOTO DOCUMENTATION

Film	Compact Disc	Lens / Dir.	Comments
Roll 11 Fr 13 CD 2110 Im 310 STD U	Site 410 looking upstream at the upper section of the reach.		
Roll 11 Fr 14 CD 2110 Im 311 STD D	Site 410, looking downstream at the upper portion of the reach.		
Roll 11 Fr 15 CD 2110 Im 312 STD U	Site 410, looking upstream at the lower portion of the reach.		
Roll 11 Fr 16 CD 2110 Im 313 STD D	Site 410, looking downstream at the lower portion of the reach.		

WILDLIFE

COMMENTS

Form	Section	Comments
SITE	CHANNEL	C1, S4
SITE	CHANNEL	C2, no barriers to upstream fish migration.
SITE	CHANNEL	C5, resample mainstem
SITE	CHANNEL	C6, FC # 24790

FDIS Fish Form

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

Reach # 1.0

ILP # 1196

ILP Map # 93L.004

Project Name Morice River Fish Inventory - 1999

Project Code 1710

Lake/Stream	S	SITE/METHOD				Waterbody ID	
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Permit 34770-20 Date: 1999/09/15 To: 1999/09/15 Crew: JD/EL Resample ☐

Site NID MAP NID UTM:Zone/East/North/ Mthd MTD/NO Temp Cond Turbid Comment

410 93L.004 40110 9 611070 5995666 EF 1 7.0 50 C

GEAR SETTINGS							
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Site MTD/NO H/P Date In Time In Date Out Time Out Comment

410 EF 1 1 1999/09/15 12:00 1999/09/15 13:15

NET/TRAP SPECIFICATIONS										
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ELECTROFISHER SPECIFICATIONS										
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Site MTD/NO H/P Encl Sec. Length Width Volts Hz Pulse Make Model

410 EF 1 1 O 413 400.0 1.3 600 60 6 SR 12-B

FISH SUMMARY										
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Site MTD/NO H/P Species Stage Age Total # Lgth (Min/Max) Activity Comment

410 EF 1 1 NFC 0

INDIVIDUAL FISH DATA										
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COMMENTS										
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Photo #: 11 - 13
Site 410 looking upstream at the upper section of the reach.



Photo #: 11 - 15
Site 410, looking upstream at the lower portion of the reach.