

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

WSC: ⁴⁶⁰~~780~~-600600-00000



TRITON

Environmental Consultants Ltd.



Photo #: 21 - 25
Site 233, downstream view of reach



Photo #: 21 - 24
Site 233, upstream view of typical habitat found throughout reach.

Site/Reach Card

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

Reach 4.0

ILP # 1037

Site # 234

ILP Map # 93L.005

Project Name Morice River Fish Inventory - 1999

Project Code 1710

REACH ATTRIBUTES										Sample Type	B		
Length (km)	.82	Elevation (m): upstream	1035	downstream	1019	UTM (Zone/East/North/ method)							
Gradient (%)	2.0	Order	1	Magnitude	1	BGC Zone	SBS	9	620652	598882	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	Shrubs					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	10:30	Agency:	C151							
Crew	JH/EM	Access	V2	MAP UTM (Zone/East/North/Method)	9	620844	5989305	GIS				
Site Length (m)	150	Method	HC	Fish Card	☒ Incomplete	☐	NID Map	93L.005	NID #	13204		

CHANNEL										
Channel Widths (m)	0.4	0.9	0.6	0.7	0.7	0.3	Average	Method(s)		
Wetted Widths (m)	0.2	0.5	0.5	0.5	0.3	0.3	0.6	T		
Resid. Pool Depths (m)	0.05	0.05	0.05				0.4	T		
							0.05	MS		
No Vis.Ch.	☐	Dewatered	☐	Gradients (%)	3.0	3.0	1.0	2.0	2.2	C, C
Intermittent	☐	Tributaries	☐	Bankfull Depth (m)	0.4	0.5	0.4		0.4	T

Stage	☐ Low	☒ Med.	☐ High		
Crown Closure	41-70%				
Instream Vegetation	☐ None	☒ Moss	☐ Vasc.		
	☐ Algae	☐	☐		
COVER -	Total	Trace	LWD Few	Dist.	Clumped
SWD	LWD	Boulder	Cutbank	Deep Pool	Over Veg
Trace	ub-Dominant	None	Trace	None	Dominant
					None
LEFT BANK	RIGHT BANK				
Shape V - shaped (steep sloping or vertical)	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		
☐ Boulder	☐ Rock	☐ Man Made	☐ Boulder		
			☐ Rock		
			☐ Man Made		

WATER									
Temperature	9	Methoc	T3	pH	6.4	Method	P2	EMS #	
Conductivity	70	Method	S3	Turbidity	☐ Turbid	☐ Medium	☐ Light	☒ Clear	Method
									GE

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	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 4.0

ILP # 1037

Site # 234

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 ☐Tribes ☐Flood Cha ☐Sloug ☐

Name	Comments
Spawning Habitat	None. No accumulations of gravels, predominantly fines and organics
Rearing Habitat	Low. A few pools (<13%) may provide some fry or juvenile rearing areas, but low flow and subsurface sections may limit access
OverWinter Habitat	None. Possible overwintering in downstream wetland

PHOTO DOCUMENTATION

Film	Compact Disc	Lens / Dir.	Comments
Roll 22 Fr 1 CD 2112 Im 193 STD U	Site 234, upstream view of small pool with poor rearing habitat.		
Roll 22 Fr 2 CD 2112 Im 194 STD D	Site 234, downstream view of small pool with poor rearing habitat and undercut banks.		

WILDLIFE**COMMENTS**

Form	Section	Comments
SITE	CHANNEL	C1; S6
SITE	CHANNEL	non fish bearing
SITE	CHANNEL	C6; 008544
SITE	CHANNEL	Stream lacks connectivity in sections ~ 400 m upstream of wetland

FDIS Fish Form

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

Reach # 4.0

ILP # 1037

ILP Map # 93L.005

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:	JH/EM
Resample ☐							
Site	NID MAP	NID	UTM:Zone/East/North/ Mthd		MTD/NO	Temp	Cond
234	93L.005	13204	9	620844	5989305	EF 1	9.0
							70
							C
GEAR SETTINGS							
Site	MTD/NO	H/P	Date In	Time In	Date Out	Time Out	Comment
234	EF	1	1	1999/09/12	10:30	1999/09/12	11:00
NET/TRAP SPECIFICATIONS							
ELECTROFISHER SPECIFICATIONS							
Site	MTD/NO	H/P	Encl	Sec.	Length	Width	Volts
234	EF	1	1	O	180	150.0	1.0
							600
							60
							6
							SR
							12-B
FISH SUMMARY							
Site	MTD/NO	H/P	Species	Stage	Age	Total #	Lgth (Min/Max)
234	EF	1	1	NFC		0	
INDIVIDUAL FISH DATA							
COMMENTS							



Photo #: 22 - 2
Site 234, downstream view of small pool with poor rearing habitat and undercut banks.



Photo #: 22 - 1
Site 234, upstream view of small pool with poor rearing habitat.

Site/Reach Card

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

Reach 1.0

ILP # 1065

Site # 2340

ILP Map # 93L.005

Project Name Morice River Fish Inventory - 1999

Project Code 1710

REACH ATTRIBUTES										Sample Type	R	
Length (km)	.95	Elevation (m): upstream	1000	downstream	948	UTM (Zone/East/North/ method)						
Gradient (%)	5.5	Order	2	Magnitude	2	BGC Zone	SBS	9	620960	599021	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	Shrubs			Valley Flat	No valley flat on either bank				(C)ontinuous	☐		
									(D)iscontinuous	☐		

SITE										
Gazetted Name	Local Name Unnamed									
Survey Date	1999/09/12	Time	11:40	Agency:	C151					
Crew	JH/EM	Access	V2	MAP UTM (Zone/East/North/Method)	9	620606	5990808	GIS		
Site Length (m)	400	Method	HC	Fish Card	☐ Incomplete	☐	NID Map	93L.005	NID #	13104

CHANNEL										Average	Method(s)	
Channel Widths (m)	1.0	1.3	0.8	1.1	0.9	0.9				1.0	T	
Wetted Widths (m)										n/a		
Resid. Pool Depths (m)										n/a		
No Vis.Ch.	☐	Dewatered	☐	Gradients (%)			5.0	5.0	4.0	4.0	4.5	C, C
Intermittent	☒	Tributaries	☐	Bankfull Depth (m)						n/a		

Stage	☐ Low	COVER -		Total	None	LWD	Few	Dist.	Clumped
	☐ Med.	SWD	LWD	Boulder	Cutbank	Deep Pool	Over Veg	Instream Veg	
	☐ High	None	None	None	None	None	None	None	
Crown Closure	41-70%	LEFT BANK			RIGHT BANK				
Instream Vegetation		Shape V - shaped (steep sloping or vertical)			Shape V - shaped (steep sloping or vertical)				
☐ None	☒ Moss	Riparian Veg. Shrubs			Riparian Veg. Shrubs				
☐ Algae	☒ Vasc.	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	Method	pH	Method	EMS #					
Conductivity	Method	Turbidity	☐ Turbid	☐ Medium	☐ Light	☐ Clear	Method		

MORPHOLOGY									
BED	Dominant	Fines	D95(cm) (only 5%larger)			40			
MATERIAL	Subdominant	Cobble	D (cm) (moveable)			5			
Channel Pattern	Irregular, Wandering								
Coupling	Decoupled								
Confinement	Occasionally 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

Reach 1.0

ILP # 1065

Site # 2340

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 ☐

Trips ☐

Flood Cha ☐

Sloug ☐

Name	Comments
Spawning Habitat	No spawning habitat values present.
Rearing Habitat	No rearing habitat values present.
OverWinter Habitat	No overwintering habitat values present.

PHOTO DOCUMENTATION

Film	Compact Disc	Lens / Dir.	Comments
Roll 22 Fr 3 CD 2112 Im 195 STD U	Site 2340, upstream view of heavily scoured section of stream downstream of 25 m subsurface section.		
Roll 22 Fr 4 CD 2112 Im 196 STD D	Site 2340, downstream view of moss covered rock immediately downstream of heavily scoured section.		

WILDLIFE

COMMENTS

Form	Section	Comments
SITE	CHANNEL	C1; S6
SITE	CHANNEL	C2; non fish bearing based on habitat characteristics and numerous barriers throughout.
SITE	CHANNEL	30-50 cm cascades located in downstream portion of reach, 10-40 m sections of subsurface flow
SITE	CHANNEL	Stream would be fish bearing based on access only as there is a potentially fish bearing wetland 250 m downstream of sample site



Photo #: 22 - 4

Site 2340, downstream view of moss covered rock immediately downstream of heavily scoured section.



Photo #: 22 - 3

Site 2340, upstream view of heavily scoured section of stream downstream of 25 m subsurface section.

Site/Reach Card

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

Reach 3.0

ILP # 1068

Site # 235

ILP Map # 93L.005

Project Name Morice River Fish Inventory - 1999

Project Code 1710

REACH ATTRIBUTES										Sample Type	R	
Length (km)	.21	Elevation (m): upstrea	960	downstream	898	UTM (Zone/East/North/ method)						
Gradient (%)	29.5	Order	1	Magnitude	1	BGC Zone	SBS	9	621257	599114	GIS	
Setting	Valley Wall					Bars	☐ None	☐ Side	☐ Diagonal	☐ Mid	☐ Span	☐ Braid
Open water	A	Wetland	☐	Mass Movement	High impact; active debris tor				Active Floodplai	☐		
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	☐		
									(D)iscontinuous	☒		

SITE												
Gazetted Name						Local Name	Unnamed					
Survey Date	1999/09/12	Time	13:30	Agency:	C151							
Crew	JH/EM	Access	V2	MAP UTM (Zone/East/North/Method)	9	621352	5991189	GIS				
Site Length (m)	100	Method	HC	Fish Card	☐ Incomplete	☐	NID Map	93L.005	NID #	13105		

CHANNEL										
No Visible Channe ☒										
Gradient(s) (%)	40.0	60.0	45.0							
Vegetation										
Veg. Stage										

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

PHOTO DOCUMENTATION									
Film	Compact Disc		Lens / Dir.		Comments				
Roll 22	Fr	5	CD 2112	Im	197	STD	U	Site 235, upslope view of dry gulley.	
Roll 22	Fr	6	CD 2112	Im	198	STD	D	Site 235, downslope view of dry gulley.	

COMMENT									
Form	Section	Comments							
SITE	CHANNEL	C1; NVC							
SITE	CHANNEL	C2; NVC/NCD dry gulley with isolated wetland upstream							



Photo #: 22 - 6
Site 235, downslope view of dry gulley.



Photo #: 22 - 5
Site 235, upslope view of dry gulley.

Site/Reach Card

Watershed Code 460-600600-36400-59800-0000-0000-000-000-000-000-000

Reach 2.0

Site # 236

Project Name Morice River Fish Inventory - 1999

Project Code 1710

REACH ATTRIBUTES										Sample Type	R	
Length (km)	1.37	Elevation (m): upstream	890	downstream	870	UTM (Zone/East/North/ method)						
Gradient (%)	1.5	Order	1	Magnitude	1	BGC Zone	SBS	9	621923	5993505	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	1999/09/12	Time	14:10	Agency:	C151						
Crew	JH/EM	Access	V2	MAP UTM (Zone/East/North/Method)	9	621273	5993697	GIS			
Site Length (m)	300	Method	HC	Fish Card	☒ Incomplete	☐	NID Map	93L.005	NID #	13106	

CHANNEL										
Channel Widths (m)	0.8	0.8	1.0	0.8	0.7	0.8	Average	0.8	Method(s)	T
Wetted Widths (m)	0.6	0.8	0.4	0.4	0.5	0.4		0.5		T
Resid. Pool Depths (m)	0.05	0.05	0.05	0.10				0.06		MS
No Vis.Ch.	☐	Dewatered	☐	Gradients (%)	5.0	3.0	4.0	3.0	3.7	C, C
Intermittent	☐	Tributaries	☐	Bankfull Depth (m)	0.5	0.4	0.5		0.5	T

Stage	☐ Low	COVER -		Total	Moderate	LWD Few	Dist.	Clumped	
	☒ Med.	SWD	LWD	Boulder	Cutbank	Deep Pool	Over Veg	Instream Veg	
	☐ High	Sub-Dominant	Sub-Dominant	None	Trace	None	Dominant	Trace	
Crown Closure	41-70%	LEFT BANK			RIGHT BANK				
Instream Vegetation		Shape V - shaped (steep sloping or vertical)			Shape V - shaped (steep sloping or vertical)				
☐ None	☒ Moss	Riparian Veg. Shrubs			Riparian Veg. Shrubs				
☐ Algae	☒ Vasc.	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	9	Method	T3	pH	6.9	Method	P2	EMS #		
Conductivity	85	Method	S3	Turbidity	☐ Turbid	☐ Medium	☐ Light	☒ Clear	Method	GE

MORPHOLOGY									
BED	Dominant Fines			D95(cm) (only 5%larger)	40				
MATERIAL	Subdominant Cobble			D (cm) (moveable)	4				
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 460-600600-36400-59800-0000-0000-000-000-000-000-000

Reach 2.0
Site # 236

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 ☒
		Tribs ☒	Flood/Beaver ☒
		Flood Chan ☒	Slough ☒

Name	Comments
Spawning Habitat	Low. Patchy accumulations of gravel may support a limited number of spawning fish (<5%)
Rearing Habitat	Low (<10%). Rearing is possible and will support a limited number of fish of various age classes. Some good coho juvenile or fry rearing habitat available
OverWinter Habitat	None. No pools deep enough were encountered

PHOTO DOCUMENTATION							
Film	Compact Disc	Lens / Dir.	Comments				
Roll 22 Fr 7 CD 2112 Im 199 STD U	Site 236, upstream view of small pool with moderate rearing capability.						
Roll 22 Fr 8 CD 2112 Im 200 STD D	Site 236, downstream view of stagnant section with hard hat for reference.						

WILDLIFE

COMMENT

Form	Section	Comments
SITE	CHANNEL	C1; S4*
SITE	CHANNEL	C2; No permanent barriers
SITE	CHANNEL	C6; NA
SITE	CHANNEL	Fish habitats are present throughout reach, access is moderate and flows are perennial
SITE	CHANNEL	Possible downstream barrier (upstream of Lamprey), though stream was flown and appears to have good access throughout
SITE	CHANNEL	Downstream wetland may limit access during low flows

FDIS Fish Form

Watershed Code 460-600600-36400-59800-0000-0000-000-000-000-000-000

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: 1999/09/12	To: 1999/09/12	Crew: JH/EM	Resample ☐	
Site	NID MAP	NID	UTM:Zone/East/North/ Mthd	MTD/NO	Temp Cond Turbid Comment
236	93L.005	13106	9 621273 5993697	EF 1	9.0 85 C
GEAR SETTINGS					
Site	MTD/NO	H/P	Date In	Time In	Date Out Time Out Comment
236	EF 1	1	1999/09/12	14:10	1999/09/12 15:00
NET/TRAP SPECIFICATIONS					
ELECTROFISHER SPECIFICATIONS					
Site	MTD/NO	H/P	Encl	Sec.	Length Width Volts Hz Pulse Make Model
236	EF 1	1	O	529	300.0 1.0 600 60 6 SR 12-B
FISH SUMMARY					
Site	MTD/NO	H/P	Species	Stage	Age Total # Lgth (Min/Max) Activity Comment
236	EF 1	1	NFC		0
INDIVIDUAL FISH DATA					
COMMENTS					



Photo #: 22 - 8
Site 236, downstream view of stagnant section with hard hat for reference.



Photo #: 22 - 7
Site 236, upstream view of small pool with moderate rearing capability.

Site/Reach Card

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

Reach 28.0

Site # 237

Project Name Morice River Fish Inventory - 1999

Project Code 1710

REACH ATTRIBUTES									
Length (km)	.53	Elevation (m): upstream	1060	downstream	996	UTM (Zone/East/North/ method)			
Gradient (%)	12.1	Order	1	Magnitude	1	BGC Zone	ESSF	9	612070 5984964 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	LAMPREY CREEK				Local Name	Lamprey Creek			
Survey Date	1999/09/12	Time	15:20	Agency:	C151				
Crew	JH/EM	Access	H	MAP UTM (Zone/East/North/Method)	9	612314	5984929	GIS	
Site Length (m)	100	Method	HC	Fish Card	☐ Incomplete ☐	NID Map	93L.004	NID #	13107

CHANNEL										
Channel Widths (m)	0.9	1.1	0.9	1.0	0.9	1.1	Average	Method(s)		
Wetted Widths (m)	0.6	0.5	0.3	0.4			0.5	T		
Resid. Pool Depths (m)	0.05	0.10	0.10				0.08	MS		
No Vis.Ch.	☐	Dewatered	☐	Gradients (%)	4.0	4.0	3.0	5.0	4.0	C, C
Intermittent	☒	Tributaries	☐	Bankfull Depth (m)	0.4	0.4	0.5		0.4	T

COVER -									
Stage	☐ Low	Total	None	LWD	Few	Dist.	Clumped		
	☒ Med.	SWD	LWD	Boulder	Cutbank	Deep Pool	Over Veg	Instream Veg	
	☐ High	None	None	None	None	None	None	None	
Crown Closure	21-40%	LEFT BANK				RIGHT BANK			
Instream Vegetation		Shape V - shaped (steep sloping or vertical)				Shape V - shaped (steep sloping or vertical)			
☐ None ☐ Moss		Riparian Veg. Shrubs				Riparian Veg. Shrubs			
☒ Algae ☒ Vasc.		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	9	Method	T3	pH	6.5	Method	P2	EMS #	
Conductivity	60	Method	S3	Turbidity	☐ Turbid ☒ Medium ☐ Light ☐ Clear	Method	GE		

MORPHOLOGY									
BED	Dominant Fines				D95(cm) (only 5% larger)	10			
MATERIAL	Subdominant Gravels				D (cm) (moveable)	2			
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 460-600600-36400-00000-0000-0000-000-000-000-000-000

Reach 28.0

Site # 237

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 ☒

Trlbs. ☒

Flood Chan ☒

Slough ☒

Name	Comments
Spawning Habitat	Poor. A few patchy accumulations of gravel are present (<3%), suitable for a few small RB/CT adults (to 10cm)
Rearing Habitat	Poor. Limited flows, isolated pools, most pools are stagnant with high algae growth
Off Channel	None. No pools deep enough to provide cover

PHOTO DOCUMENTATION

Film	Compact Disc	Lens / Dir.	Comments
Roll 22 Fr 9 CD 2112 Im 201 STD U	Site 237, upstream view of stagnant pool and high algal growth.		
Roll 22 Fr 10 CD 2112 Im 202 STD D	Site 237, downstream view of small debris pile with riffle/run habitat.		

WILDLIFE

COMMENT

Form	Section	Comments
SITE	CHANNEL	c1; S4*
SITE	CHANNEL	c2 No permanent barriers
SITE	CHANNEL	stream hits toe of slope and becomes heavily braided and dissipates
SITE	CHANNEL	stagnant low energy system, no significant discharge, channel is heavily vegetated
SITE	CHANNEL	high number of invertebrates in every pool
SITE	CHANNEL	stream lacks connectivity in several sections, with subsurface flows, isolated pools, wetland seepage with no surface water (possible barrier)
SITE	CHANNEL	Access may improve during periods of high runoff.



Photo #: 22 - 10

Site 237, downstream view of small debris pile with riffle/run habitat.



Photo #: 22 - 9

Site 237, upstream view of stagnant pool and high algal growth.

Site/Reach Card

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

Reach 6.0

ILP # 1427

Site # 238

ILP Map # 93L.004

Project Name Morice River Fish Inventory - 1999

Project Code 1710

REACH ATTRIBUTES										Sample Type	B	
Length (km)	.61	Elevation (m): upstream	1060	downstream	970	UTM (Zone/East/North/ method)						
Gradient (%)	14.8	Order	1	Magnitude	2	BGC Zone	ESSF	9	609610	598656	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	Shrubs				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	16:30	Agency:	C151					
Crew	JH/EM	Access	V2	MAP UTM (Zone/East/North/Method)	9	609747	5986882	GIS		
Site Length (m)	250	Method	HC	Fish Card	☒ Incomplete	☐	NID Map	93L.004	NID #	13108

CHANNEL										Average	Method(s)		
Channel Widths (m)	1.7	1.8	1.5	2.0	1.8	1.7				1.7	T		
Wetted Widths (m)	1.4	1.1	1.2	1.0	1.1	0.9				1.1	T		
Resid. Pool Depths (m)	0.30	0.20	0.30	0.25	0.30	0.25				0.27	MS		
No Vis.Ch.	☐	Dewatered	☐	Gradients (%)				5.0	5.0	6.0	7.0	5.7	C, C
Intermittent	☐	Tributaries	☐	Bankfull Depth (m)				0.5	0.6	0.6		0.6	T

Stage	☐ Low	☒ Med.	☐ High	COVER - Total Moderate LWD Few Dist. Clumped							
				SWD	LWD	Boulder	Cutbank	Deep Pool	Over Veg	Instream Veg	
				Trace	ub-Dominant	None	Trace	Trace	Dominant	None	
Crown Closure	21-40%			LEFT BANK				RIGHT BANK			
Instream Vegetation				Shape V - shaped (steep sloping or vertical)				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	8	Methoc	T3	pH	6.8	Method	P2	EMS #		
Conductivity	40	Method	S3	Turbidity	☐ Turbid	☐ Medium	☐ Light	☒ Clear	Method	GE

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

Reach 6.0
Site # 238

ILP # 1427
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 ☒

Tribs ☒

Flood Cha ☒

Sloug ☒

Name	Comments
Spawning Habitat	Moderate. Good accumulations of gravel, small patches of 2-6 cm gravel suitable for various size salmonids, perennial flows (~20%).
Rearing Habitat	Moderate. Riffle/run/pool habitats throughout site, cover provided by LWD, D95, deep pools, good complexity (~30%).
OverWinter Habitat	Poor. Stream may lack pools deep enough to provide overwintering habitat, but this is questionable. No adults were captured.

PHOTO DOCUMENTATION

Film	Compact Disc	Lens / Dir.	Comments
Roll 22 Fr 12 CD 2112 Im 204 STD U	Site 238, upstream view of fish capture location with heavy vegetative cover.		
Roll 22 Fr 13 CD 2112 Im 205 STD D	Site 238, downstream view of fish capture location with good spawning/rearing habitats shown.		

WILDLIFE

COMMENTS

Form	Section	Comments
SITE	CHANNEL	C1; S3
SITE	CHANNEL	C2; CT captured with minimal effort
SITE	CHANNEL	C6; 019882
SITE	CHANNEL	Stream has no RMA/RMZ on left bank
SITE	CHANNEL	Habitats are suitable for various sized salmonids, but only fry were captured.

FDIS Fish Form

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

Reach # 6.0

ILP # 1427

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: 1999/09/12 To: 1999/09/12 Crew: JH/EM Resample ☐

Site	NID MAP	NID	UTM:Zone/East/North/	Mthd	MTD/NO	Temp	Cond	Turbid	Comment
238	93L.004	13108	9 609747	5986882	EF 1	8.0	40	C	

GEAR SETTINGS							
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Site	MTD/NO	H/P	Date In	Time In	Date Out	Time Out	Comment
238	EF 1	1	1999/09/12	16:30	1999/09/12	17:35	

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
238	EF 1	1	O	263	250.0	1.5	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
238	EF	1 1	CT	F	0+	9	25 30	R	

INDIVIDUAL FISH DATA							
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Site	MTD/NO	H/P	Species	Length (mm)	Weight (g)	Sex	Mat	Age	Genetic	Photograph	Comment
238	EF	1 1	CT	25		U	U				
238	EF	1 1	CT	30		U	U			22 11	
238	EF	1 1	CT	30		U	U				
238	EF	1 1	CT	30		U	U				
238	EF	1 1	CT	25		U	U				
238	EF	1 1	CT	25		U	U				
238	EF	1 1	CT	25		U	U				
238	EF	1 1	CT	30		U	U				
238	EF	1 1	CT	30		U	U				

COMMENTS							
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Photo #: 22 - 13

Site 238, downstream view of fish capture location with good spawning/rearing habitats shown.



Photo #: 22 - 11

Site 238, photo of a 25 mm cutthroat trout.



Photo #: 22 - 12

Site 238, upstream view of fish capture location with heavy vegetative cover.

Site/Reach Card

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

Reach 3.0

ILP # 1489

Site # 239

ILP Map # 93E.092

Project Name Morice River Fish Inventory - 1999

Project Code 1710

REACH ATTRIBUTES										Sample Type	B	
Length (km)	.90	Elevation (m): upstream	1480	downstream	1380	UTM (Zone/East/North/ method)						
Gradient (%)	11.1	Order	2	Magnitude	1	BGC Zone	AT	9	591201	597386	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	☒		

SITE										
Gazetted Name	Local Name Unnamed									
Survey Date	1999/09/13	Time	10:30	Agency:	C151					
Crew	JH/JA	Access	H	MAP UTM (Zone/East/North/Method)	9	591091	5974355	GIS		
Site Length (m)	890	Method	HC	Fish Card	☒ Incomplete	☐	NID Map	93E.092	NID #	13109

CHANNEL										Average	Method(s)
Channel Widths (m)	12.0	9.9	11.3	10.8	8.6	10.0				10.4	T
Wetted Widths (m)	6.7	8.3	7.9	8.3	8.6	8.3				8.0	T
Resid. Pool Depths (m)	0.50	0.60	0.85	0.75	0.50	0.59				0.63	MS

No Vis.Ch.	☐	Dewatered	☐	Gradients (%)	5.0	5.0	6.0	4.0	5.0	C, C
Intermittent	☐	Tributaries	☐	Bankfull Depth (m)	1.1	1.2	1.2	1.2	1.2	T

Stage	☐ Low	☒ Med.	☐ High	COVER -	Total	Abundant	LWD	None	Dist.	Not Applicable
				SWD	LWD	Boulder	Cutbank	Deep Pool	Over Veg	Instream Veg
				Trace	None	Dominant	None	ub-Dominant	None	None

Crown Closure	1-20%	LEFT BANK	RIGHT BANK
		Shape V - shaped (steep sloping or vertical)	Shape V - shaped (steep sloping or vertical)
		Riparian Veg. Mixed C/D	Riparian Veg. Mixed C/D
		Riparian Stage Mature forest	Riparian Stage Mature forest
Instream Vegetation		Texture ☐ Fines ☒ Gravel ☐ Cobble	Texture ☐ Fines ☒ Gravel ☐ Cobble
☒ None ☐ Moss		☐ Boulder ☐ Rock ☐ Man Made	☐ Boulder ☐ Rock ☐ Man Made
☐ Algae ☐ Vasc.			

WATER									
Temperature	3	Methoc	T3	pH	6.9	Method	P2	EMS #	
Conductivity	110	Method	S3	Turbidity	☐ Turbid ☐ Medium ☒ Light ☐ Clear	Method	GE		

MORPHOLOGY									
BED	Dominant Cobble			D95(cm) (only 5%larger)	110				
MATERIAL	Subdominant Boulders			D (cm) (moveable)	40				
Channel Pattern	Irregular, Wandering								
Coupling	Decoupled								
Confinement	Unconfined								
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 3.0

ILP # 1489

Site # 239

ILP Map # 93E.092

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 30.0 Method GE Length 80 Method GE

Comments ~ ten 1 m falls within this cascade, 12 m largest set of falls

Photograph Roll 22 Frame 15 UTM (Zone/East/North/ Method) 9 591128 597448 GIS

HABITAT QUALITY

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

Name	Comments
Spawning Habitat	Poor. (~15%) Large accumulations of gravels and cobbles downstream of glacier but access questionable.
Rearing Habitat	Poor. (~25%) Pool and riffle/run habitats available, good D95 (100) cover with small canyon pools
OverWinter Habitat	Poor (~5%). Extremely high elevation; immediately downstream of glacier.

PHOTO DOCUMENTATION

Film	Compact Disc	Lens / Dir.	Comments
Roll 22 Fr 14 CD 2112 Im 206 STD U	Site 239, upstream view of cascade pool habitat with large D95.		
Roll 22 Fr 15 CD 2112 Im 207 STD D	Site 239, downstream view of boulders with limited resting habitat.		
Roll 22 Fr 16 CD 2112 Im 208 STD U	Site 239, upstream view of 12 m falls just downstream of glacier.		
Roll 22 Fr 17 CD 2112 Im 209 STD U	Site 239, upstream view of 12 m falls just downstream of glacier.		
Roll 22 Fr 18 CD 2112 Im 210 STD U	Site 239, upstream view of 12 m falls just downstream of glacier.		
Roll 22 Fr 19 CD 2112 Im 211 STD U	Site 239, cover photo.		

WILDLIFE

COMMENTS

Form	Section	Comments
SITE	CHANNEL	C1; S2/S5
SITE	CHANNEL	C2; fish captured to cascades /falls with no fish captured upstream.
SITE	CHANNEL	C6; 008543
SITE	CHANNEL	No significant barriers were observed during overflight.
SITE	CHANNEL	High densities of fish found in CP habitat immediately downstream of barrier.

FDIS Fish Form

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

Reach # 3.0

ILP # 1489

ILP Map # 93E.092

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: JH/JA
						Resample ☐

Site	NID MAP	NID	UTM:Zone/East/North/ Mthd	MTD/NO	Temp	Cond	Turbid	Comment
239	93E.092	13109	9 591091 5974355	EF 1	3.0	110	C	

GEAR SETTINGS							
Site	MTD/NO	H/P	Date In	Time In	Date Out	Time Out	Comment
239	EF 1	1	1999/09/13	09:00	1999/09/13	10:50	

NET/TRAP SPECIFICATIONS											
ELECTROFISHER SPECIFICATIONS											
Site	MTD/NO	H/P	Encl	Sec.	Length	Width	Volts	Hz	Pulse	Make	Model
239	EF 1	1	O	723	890.0	10.0	600	60	6	SR	12-B

FISH SUMMARY										
Site	MTD/NO	H/P	Species	Stage	Age	Total #	Lgth (Min/Max)	Activity	Comment	
239	EF 1	1	DV	A	3+	9	135 168	R		

INDIVIDUAL FISH DATA														
Site	MTD/NO	H/P	Species	Length	Weight	Sex	Mat	Age		Vch#	Genetic	Photograph		Comment
				(mm)	(g)			Str / Smp# /	Age		Str/ Smp#	Roll	Fr.	
239	EF	1	1	DV	150		U	U						23 7
239	EF	1	1	DV	142		U	U						
239	EF	1	1	DV	135		U	U						
239	EF	1	1	DV	159		U	U						
239	EF	1	1	DV	168		U	U						
239	EF	1	1	DV	155		U	U						
239	EF	1	1	DV	138		U	U						
239	EF	1	1	DV	142		U	U						
239	EF	1	1	DV	145		U	U						

COMMENTS														



Photo #: 22 - 15

Site 239, downstream view of boulders with limited resting habitat.



Photo #: 22 - 16

Site 239, upstream view of 12 m falls just downstream of glacier.



Photo #: 22 - 17
Site 239, upstream view of 12 m falls just downstream of glacier.



Photo #: 22 - 18
Site 239, upstream view of 12 m falls just downstream of glacier.



Photo #: 22 - 14
Site 239, upstream view of cascade pool habitat with large D95.

Site/Reach Card

Watershed Code 460-600600-64400-28100-0000-0000-000-000-000-000-000

Reach 4.0

Site # 240

Project Name Morice River Fish Inventory - 1999

Project Code 1710

REACH ATTRIBUTES										Sample Type	R	
Length (km)	1.34	Elevation (m): upstream	1070	downstream	1010	UTM (Zone/East/North/ method)						
Gradient (%)	4.5	Order	3	Magnitude	103	BGC Zone	ESSF	9	597540	5980487	GIS	
Setting	Valley Floor					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	Regular Meanders					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	1999/09/13	Time	11:30	Agency:	C151						
Crew	JH/JA	Access	H	MAP UTM (Zone/East/North/Method)	9	597813	5980630	GIS			
Site Length (m)	680	Method	HC	Fish Card	☒ Incomplete	☐	NID Map	93E.093	NID #	13110	

CHANNEL													
Channel Widths (m)	45.0	38.0	30.0	28.0	36.0	40.0	Average	36.2	Method(s)	T			
Wetted Widths (m)	12.0	18.0	14.0	10.0	15.0	25.0		15.7		T			
Resid. Pool Depths (m)	1.50	0.90	1.10	0.85	1.30	0.69		1.06		MS			
No Vis.Ch.	☐	Dewatered	☐	Gradients (%)				8.0	7.0	8.0	7.0	7.5	C, C
Intermittent	☐	Tributaries	☐	Bankfull Depth (m)				1.5	2.1	1.8		1.8	T

Stage	☒ Low	COVER -		Total	Abundant	LWD	Few	Dist.	Clumped
	☐ Med.	SWD	LWD	Boulder	Cutbank	Deep Pool	Over Veg	Instream Veg	
	☐ High	Trace	Trace	Sub-Dominant	None	Dominant	None	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)			
☒ None	☐ Moss	Riparian Veg. Mixed C/D				Riparian Veg. Mixed C/D			
☐ 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	4	Method	T3	pH	7.2	Method	P2	EMS #		
Conductivity	95	Method	S3	Turbidity	☐ Turbid	☐ Medium	☒ Light	☐ Clear	Method	GE

MORPHOLOGY										
BED	Dominant Cobble				D95(cm) (only 5%larger)	150				
MATERIAL	Subdominant Boulders				D (cm) (moveable)	50				
Channel Pattern	Irregular, Wandering									
Coupling	Partially Coupled									
Confinement	Frequently Confined									
Islands	None									
Morphology Code					CP					
Abandoned channels					☐ B1	SWD		☐ D1	Extensive riffles	☐ C1
Homog. bed					☐ S1					

Site/Reach Card

Watershed Code 460-600600-64400-28100-0000-0000-000-000-000-000-000

Reach 4.0

Site # 240

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	Moderate (~20%). Gravel accumulation present (clean) perennial flows with glide/laminar habitats, interstitial spaces good
Rearing Habitat	Moderate (~30%) Deep pools with good cover, good for DV/BT
OverWinter Habitat	Moderate (~<5%) Deep pools present, perennial habitats

PHOTO DOCUMENTATION

Film	Compact Disc	Lens / Dir.	Comments
Roll 23 Fr 1 CD 2112 Im 212 STD U	Site 240, upstream view of cascade/pool habitat (fish capture location).		
Roll 23 Fr 2 CD 2112 Im 213 STD D	Site 240, downstream view of cascade/pool habitat (fish capture location).		

WILDLIFE

COMMENT

Form	Section	Comments
SITE	CHANNEL	c1; S1
SITE	CHANNEL	c2; DV/BT captured with minimal effort
SITE	CHANNEL	c6; 008536
SITE	CHANNEL	Stream is flashy with heavy debris flows, though all substrates are rounded
SITE	CHANNEL	limited resting spots between pools, stream is braided in sections during higher flows
SITE	WATER	water is glacier colored (milky)

FDIS Fish Form

Watershed Code 460-600600-64400-28100-0000-0000-000-000-000-000-000

Reach # 4.0

ILP #

ILP Map #

Project Name Morice River Fish Inventory - 1999

Project Code 1710

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

Site	NID MAP	NID	UTM:Zone/East/North/	Mthd	MTD/NO	Temp	Cond	Turbid	Comment
240	93E.093	13110	9 597813 5980630	EF	1	4.0	95	L	

GEAR SETTINGS

Site	MTD/NO	H/P	Date In	Time In	Date Out	Time Out	Comment
240	EF	1	1	1999/09/13 11:30	1999/09/13 12:35		

NET/TRAP SPECIFICATIONS

ELECTROFISHER SPECIFICATIONS

Site	MTD/NO	H/P	Encl	Sec.	Length	Width	Volts	Hz	Pulse	Make	Model
240	EF	1	1	O	580	680.0	35.0	600	60	6	SR 12-B

FISH SUMMARY

Site	MTD/NO	H/P	Species	Stage	Age	Total #	Lgth (Min/Max)	Activity	Comment
240	EF	1	1	DV	A	3+	12 110 154	R	

INDIVIDUAL FISH DATA

Site	MTD/NO	H/P	Species	Length (mm)	Weight (g)	Sex	Mat	Age	Genetic	Photograph	Comment
240	EF	1	1	DV	120	U	U			23 3	
240	EF	1	1	DV	130	U	U				
240	EF	1	1	DV	135	U	U				
240	EF	1	1	DV	110	U	U				
240	EF	1	1	DV	119	U	U				
240	EF	1	1	DV	145	U	U				
240	EF	1	1	DV	154	U	U				
240	EF	1	1	DV	138	U	U				
240	EF	1	1	DV	142	U	U				
240	EF	1	1	DV	150	U	U				
240	EF	1	1	DV	146	U	U				
240	EF	1	1	DV	140	U	U				

COMMENTS

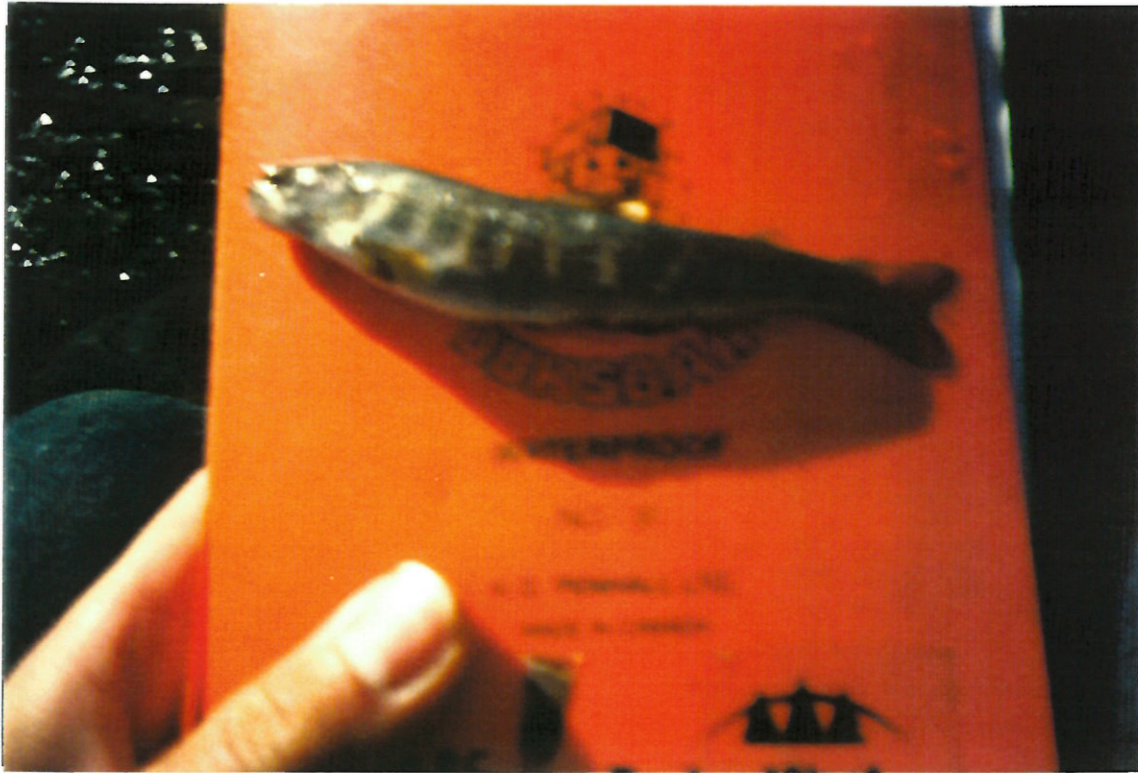


Photo #: 23 - 3
Site 240, photo of a 120 mm dolly varden.



Photo #: 23 - 1
Site 240, upstream view of cascade/pool habitat (fish capture location).



Photo #: 23 - 2

Site 240, downstream view of cascade/pool habitat (fish capture location).

Site/Reach Card

Watershed Code 460-600600-64400-28100-0000-0000-000-000-000-000-000

Reach 5.0

Site # 241

Project Name Morice River Fish Inventory - 1999

Project Code 1710

REACH ATTRIBUTES										Sample Type	R	
Length (km)	2.96	Elevation (m): upstream	1090	downstream	1070	UTM (Zone/East/North/ method)						
Gradient (%)	0.7	Order	3	Magnitude	94	BGC Zone	ESSF	9	595429	5978725	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				Beaver Dam(s)	☐			
Channel Pattern	Regular Meanders			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	1999/09/13	Time	12:55	Agency:	C151					
Crew	JH/JA	Access	H	MAP UTM (Zone/East/North/Method)	9	595770	5979005	GIS		
Site Length (m)	720	Method	HC	Fish Card	☒ Incomplete	☐	NID Map	93E.093	NID #	13111

CHANNEL										
Channel Widths (m)	28.0	41.0	35.0	31.0	22.0	26.0	Average	30.5	Method(s)	T
Wetted Widths (m)	15.0	12.0	18.0	20.0	15.0	13.0		15.5		T
Resid. Pool Depths (m)	0.90	1.10	1.30	1.00	1.10	1.40		1.13		MS
No Vis.Ch.	☐	Dewatered	☐	Gradients (%)	7.0	8.0	6.0	8.0	7.2	C, C
Intermittent	☐	Tributaries	☐	Bankfull Depth (m)	1.0	1.2	1.3		1.2	T

Stage		COVER -		Total	Abundant	LWD	Few	Dist.	Clumped	
SWD	LWD	Boulder	Cutbank	Deep Pool	Over Veg	Instream Veg				
Trace	Sub-Dominant	Sub-Dominant	None	Dominant	None	None				
Low	☒									
Med.	☐									
High	☐									
Crown Closure	1-20%	LEFT BANK				RIGHT BANK				
Shape	V - shaped (steep sloping or vertical)	Shape				V - shaped (steep sloping or vertical)				
Riparian Veg.	Mixed C/D	Riparian Veg.				Mixed C/D				
Riparian Stage	Mature forest	Riparian Stage				Mature forest				
Instream Vegetation	☒ None ☐ Moss	Texture				☐ Fines ☒ Gravel ☐ Cobble				
☐ Algae ☐ Vasc.		☐ Boulder ☐ Rock ☐ Man Made				☐ Boulder ☐ Rock ☐ Man Made				

WATER									
Temperature	4	Method	T3	pH	6.9	Method	P2	EMS #	
Conductivity	110	Method	S3	Turbidity	☐ Turbid ☐ Medium ☐ Light	☒ Clear	Method	GE	

MORPHOLOGY									
BED	Dominant Cobble	D95(cm) (only 5%larger)	120						
MATERIAL	Subdominant Boulders	D (cm) (moveable)	40						
Channel Pattern	Irregular, Wandering	Morphology Code	RP						
Coupling	Partially Coupled	Bars	☐ None ☐ Mid						
Confinement	Occasionally Confined		☒ Side ☐ Span						
Islands	Irregular		☐ Diag. ☐ Braid						
Abandoned channels	☐ B1	SWD	☐ D1						
Extensive riffles	☐ C1	Homog. bed	☐ S1						

Site/Reach Card

Watershed Code 460-600600-64400-28100-0000-0000-000-000-000-000-000

Reach 5.0

Site # 241

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	Moderate (~20%) Numerous accumulations of gravels and suitable substrates
Rearing Habitat	Moderate (~30%) fish are holding in riffle/run sections with higher gradients (3%)
OverWinter Habitat	Moderate. Several pools deep enough (>80cm), but questionable at this elevation

PHOTO DOCUMENTATION

Film	Compact Disc	Lens / Dir.	Comments
Roll 23 Fr 4 CD 2112 Im 215 STD D			Site 241, downstream view of stream with pilot for reference.
Roll 23 Fr 5 CD 2112 Im 216 STD U			Site 241, upstream view of section of site with the highest density of fish, a riffle/run with large D95 (boulders).

WILDLIFE

COMMENT

Form	Section	Comments
SITE	CHANNEL	c1; S1
SITE	CHANNEL	c2; Fish captured in reach
SITE	CHANNEL	C6; 008538
SITE	CHANNEL	Density of fish ~3 / 50 m, which seems low given the habitat
SITE	CHANNEL	Rocks are more angular than upstream

FDIS Fish Form

Watershed Code 460-600600-64400-28100-0000-0000-000-000-000-000-000

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: 1999/09/12 To: 1999/09/12 Crew: JH/JA Resample ☐

Site	NID MAP	NID	UTM:Zone/East/North/	Mthd	MTD/NO	Temp	Cond	Turbid	Comment
241	93E.093	13111	9	595770 5979005	EF	1	4.0	110	C GR

GEAR SETTINGS

Site	MTD/NO	H/P	Date In	Time In	Date Out	Time Out	Comment
241	EF	1	1	1999/09/12 12:55	1999/09/12	13:40	

NET/TRAP SPECIFICATIONS

ELECTROFISHER SPECIFICATIONS

Site	MTD/NO	H/P	Encl	Sec.	Length	Width	Volts	Hz	Pulse	Make	Model
241	EF	1	1	O	415	720.0	30.0	600	60	6	SR 12-B

FISH SUMMARY

Site	MTD/NO	H/P	Species	Stage	Age	Total #	Lgth (Min/Max)	Activity	Comment
241	EF	1	1	DV	A	3+	8	110 150	R

INDIVIDUAL FISH DATA

Site	MTD/NO	H/P	Species	Length (mm)	Weight (g)	Sex	Mat	Age	Genetic	Photograph	Comment
241	EF	1	1	DV	140	U	U				
241	EF	1	1	DV	125	U	U				
241	EF	1	1	DV	110	U	U				
241	EF	1	1	DV	128	U	U				
241	EF	1	1	DV	137	U	U				
241	EF	1	1	DV	150	U	U				
241	EF	1	1	DV	135	U	U				
241	EF	1	1	DV	142	U	U				

COMMENTS



Photo #: 23 - 4
 Site 241, downstream view of stream with pilot for reference.



Photo #: 23 - 6
 Site 241, photo of a 140 mm dolly varden.



Photo #: 23 - 7
 Site 241, photo of a 150 mm dolly varden.

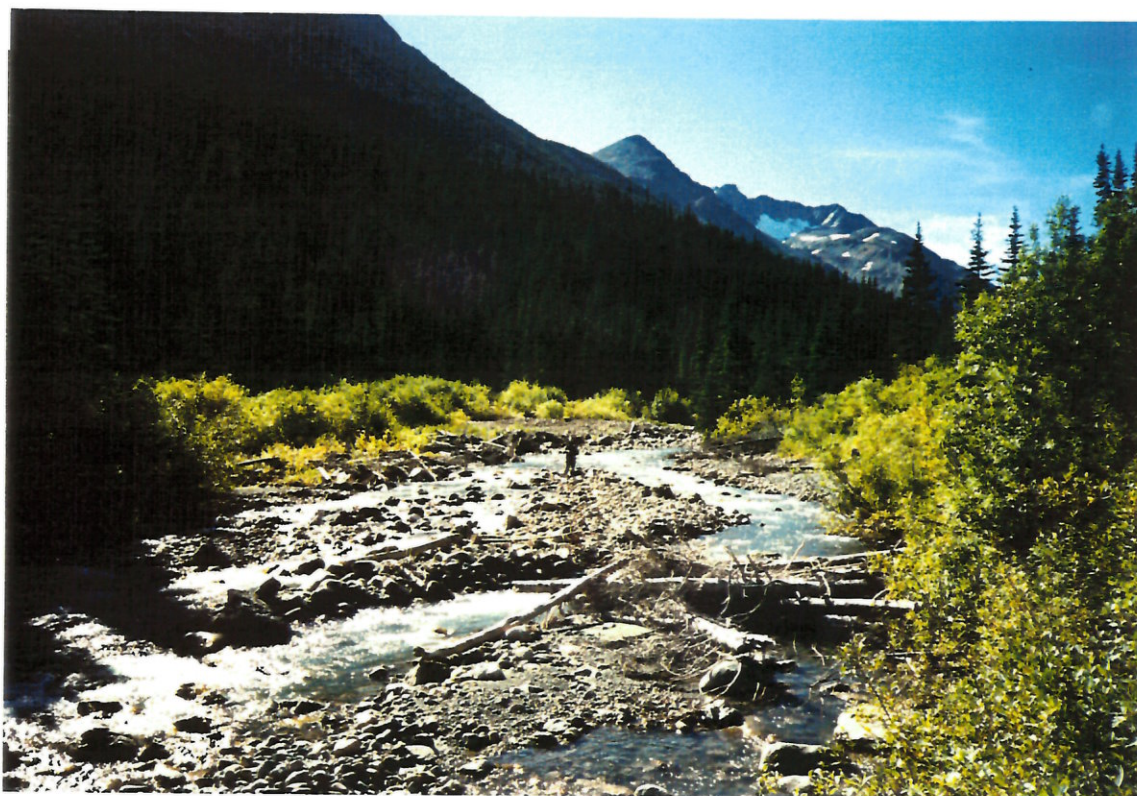


Photo #: 23 - 5
 Site 241, upstream view of section of site with the highest density of fish, a riffle/run with large D95 (boulders).

Site/Reach Card

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

Reach 4.0

ILP # 1489

Site # 242

ILP Map # 93E.092

Project Name Morice River Fish Inventory - 1999

Project Code 1710

REACH ATTRIBUTES									
Length (km)	.49	Elevation (m): upstream	1495	downstream	1480	UTM (Zone/East/North/ method)	Sample Type ☒ R		
Gradient (%)	3.1	Order	1	Magnitude	1	BGC Zone	AT	9	591343 597342 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	NONE		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	13:50	Agency:	C151				
Crew	JH/JA	Access	H	MAP UTM (Zone/East/North/Method)	9	591212	5973773	GIS	
Site Length (m)	490	Method	GE	Fish Card	☒ Incomplete	☐	NID Map	93E.092	NID # 13112

CHANNEL										
Channel Widths (m)	6.8	7.2	6.5	6.4	5.4	6.8	Average	Method(s)		
Wetted Widths (m)	6.3	4.5	4.9	5.1	4.2	4.5	6.5	T		
Resid. Pool Depths (m)	0.20	0.30	0.30	0.25	0.35	0.20	4.9	T		
							0.27	MS		
No Vis.Ch.	☐	Dewatered	☐	Gradients (%)	3.0	4.0	3.0	4.0	3.5	C, C
Intermittent	☐	Tributaries	☐	Bankfull Depth (m)	1.1	1.1	1.2		1.1	T

Stage	☐ Low	COVER -	Total	Moderate	LWD	None	Dist.	Not Applicable	
	☒ Med.	SWD	LWD	Boulder	Cutbank	Deep Pool	Over Veg	Instream Veg	
	☐ High	None	None	Dominant	None	Trace	None	None	
Crown Closure	0%	LEFT BANK		RIGHT BANK					
Instream Vegetation		Shape V - shaped (steep sloping or vertical)		Shape V - shaped (steep sloping or vertical)					
☒ None	☐ Moss	Riparian Veg. None		Riparian Veg. None					
☐ Algae	☐ Vasc.	Riparian Stage		Riparian Stage					
		Texture	☐ Fines	☒ Gravel	☐ Cobble	Texture			
			☐ Boulder	☐ Rock	☐ Man Made	☐ Fines			
						☒ Gravel			
						☐ Cobble			
						☐ Boulder			
						☐ Rock			
						☐ Man Made			

WATER									
Temperature	3	Methoc	T3	pH	6.8	Method	P2	EMS #	
Conductivity	120	Method	S3	Turbidity	☐ Turbid	☐ Medium	☒ Light	☐ Clear	Method GE

MORPHOLOGY									
BED	Dominant Cobble		D95(cm) (only 5%larger)		180				
MATERIAL	Subdominant Boulders		D (cm) (moveable)		40				
Channel Pattern	Irregular, Wandering								
Coupling	Decoupled								
Confinement	Unconfined								
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 4.0

ILP # 1489

Site # 242

ILP Map # 93E.092

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. High velocity, larger substrates
Rearing Habitat	Poor. Lacks cover, shallow riffle/run type habitats (~20%)
OverWinter Habitat	None. Pools too shallow

PHOTO DOCUMENTATION

Film	Compact Disc	Lens / Dir.	Comments
Roll 23 Fr 8 CD 2112 Im 219 STD U	Site 242, upstream view of silt laden glacial stream.		
Roll 23 Fr 9 CD 2112 Im 220 STD D	Site 242, downstream view of cobble boulder habitat, 800 m downstream of glacier.		

WILDLIFE

COMMENTS

Form	Section	Comments
SITE	CHANNEL	C1; S5
SITE	CHANNEL	C2; downstream cascade blocks access.
SITE	CHANNEL	c6; 024868
SITE	CHANNEL	Habitat has limited resting pools;
SITE	CHANNEL	High densities of DV captured immediately downstream of falls/cascades, which are barrier.
SITE	SITE CARD	Actual site length was 800 m

FDIS Fish Form

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

Reach # 4.0

ILP # 1489

ILP Map # 93E.092

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:	JH/JA	Resample			
Site	NID MAP	NID	UTM:Zone/East/North/ Mthd		MTD/NO	Temp	Cond	Turbid	Comment		
242	93E.092	13112	9	591212 5973773	EF 1	3.0	120	L			
GEAR SETTINGS											
Site	MTD/NO	H/P	Date In	Time In	Date Out	Time Out	Comment				
242	EF 1	1	1999/09/13	13:50	1999/09/13	14:55					
NET/TRAP SPECIFICATIONS											
ELECTROFISHER SPECIFICATIONS											
Site	MTD/NO	H/P	Encl	Sec.	Length	Width	Volts	Hz	Pulse	Make	Model
242	EF 1	1	O	430	800.0	6.0	600	60	6	SR	12-B
FISH SUMMARY											
Site	MTD/NO	H/P	Species	Stage	Age	Total #	Lgth (Min/Max)	Activity	Comment		
242	EF	1 1	NFC			0					
INDIVIDUAL FISH DATA											
COMMENTS											



Photo #: 23 - 9

Site 242, downstream view of cobble boulder habitat, 800 m downstream of glacier.



Photo #: 23 - 8

Site 242, upstream view of silt laden glacial stream.

Site/Reach Card

Watershed Code 460-600600-64400-28100-0000-0000-000-000-000-000-000

Reach 11.0

Site # 243

Project Name Morice River Fish Inventory - 1999

Project Code 1710

REACH ATTRIBUTES										Sample Type	R	
Length (km)	.74	Elevation (m): upstream	1460	downstream	1380	UTM (Zone/East/North/ method)						
Gradient (%)	10.8	Order	2	Magnitude	3	BGC Zone	AT	9	590375	5974328	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	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	1999/09/13	Time	15:30	Agency:	C151						
Crew	JH/JA	Access	H	MAP UTM (Zone/East/North/Method)	9	590673	5974709	GIS			
Site Length (m)	740	Method	HC	Fish Card	☒ Incomplete	☐	NID Map	93E.092	NID #	13113	

CHANNEL											
Channel Widths (m)	12.4	11.8	12.6	12.7	12.1	11.8	11.3	Average	12.1	Method(s)	T
Wetted Widths (m)	6.5	6.2	4.9	5.9	6.1	6.3	6.7		6.1		T
Resid. Pool Depths (m)	0.85	0.65	0.59	0.73	0.75	0.79	0.85		0.74		MS
No Vis.Ch.	☐	Dewatered	☐	Gradients (%)	7.0	8.0	9.0	8.0	8.0	C	C
Intermittent	☐	Tributaries	☐	Bankfull Depth (m)	1.3	1.5	1.5	1.4			T

Stage		COVER -		Total	Abundant	LWD	Few	Dist.	Clumped
SWD	LWD	Boulder	Cutbank	Deep Pool	Over Veg	Instream Veg			
Trace	Trace	Dominant	None	Sub-Dominant	None	None			
Low	☐								
Med.	☒								
High	☐								
Crown Closure	1-20%	LEFT BANK				RIGHT BANK			
		Shape V - shaped (steep sloping or vertical)				Shape V - shaped (steep sloping or vertical)			
		Riparian Veg. Mixed C/D				Riparian Veg. Mixed C/D			
		Riparian Stage Mature forest				Riparian Stage Mature forest			
Instream Vegetation		Texture ☐ Fines ☒ Gravel ☐ Cobble				Texture ☐ Fines ☒ Gravel ☐ Cobble			
☒ None	☐ Moss	☐ Boulder ☐ Rock ☐ Man Made				☐ Boulder ☐ Rock ☐ Man Made			
☐ Algae	☐ Vasc.								

WATER										
Temperature	4	Method	T3	pH	6.9	Method	P2	EMS #		
Conductivity	110	Method	S3	Turbidity	☐ Turbid	☐ Medium	☐ Light	☒ Clear	Method	GE

MORPHOLOGY									
BED	Dominant	Gravels	D95(cm) (only 5%larger)	180					
MATERIAL	Subdominant	Boulders	D (cm) (moveable)	30					
Channel Pattern	Irregular, Wandering		Morphology Code	CP	Bars	☐ None	☐ Mid	☒ Side	☐ Span
Coupling	Partially Coupled					☐ Diag.	☐ Braid		
Confinement	Frequently Confined								
Islands	None								
Abandoned channels	☐ B1	SWD	☐ D1	Extensive riffles	☐ C1	Homog. bed	☐ S1		

Site/Reach Card

Watershed Code 460-600600-64400-28100-0000-0000-000-000-000-000-000

Reach 11.0

Site # 243

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 3.0	Method T	Length 4	Method T
Comments with two 1 m falls in between				
Photograph	Roll 23	Frame 13	UTM (Zone/East/North/ Method)	9 590577 5974619 GIS
Type F	Height 4.0	Method T	Length	Method
Comments at top of canyon				
Photograph	Roll 23	Frame 14	UTM (Zone/East/North/ Method)	9 590487 5974577 GIS

HABITAT QUALITY

FSZs	Side Chan ☒	Flood/Beaver ☒
Tribb. ☒	Flood Chan ☒	Slough ☒

Name	Comments
Spawning Habitat	Moderate. Abundant gravels, perennial flows, moderate gradient
Rearing Habitat	Moderate, abundant cover, diverse habitats, frequent riffles, and pools, moderate gradients and perennial flows
OverWinter Habitat	Limited to plunge pools and canyon pools

PHOTO DOCUMENTATION

Film	Compact Disc	Lens / Dir.	Comments
Roll 23	Fr 10 CD 2112 Im 221	STD U	Site 243, upstream view of stream towards glacier.
Roll 23	Fr 11 CD 2112 Im 222	STD D	Site 243, downstream view showing valley below.
Roll 23	Fr 13 CD 2112 Im 224	STD U	Site 243, upstream view of cascade with two 1 m falls.
Roll 23	Fr 14 CD 2112 Im 225	STD U	Site 243, upstream view at top of canyon.

WILDLIFE

COMMENT

Form	Section	Comments
SITE	CHANNEL	c1; S2/S5
SITE	CHANNEL	c2; fish captured downstream of falls, no fish captured upstream
SITE	CHANNEL	c6; 008545
SITE	CHANNEL	Deep riffle/run habitat with abundant boulders, moderate gradients, perennial flows and coarse substrates
SITE	CHANNEL	Barriers located while walking upstream, falls and cascades
SITE	CHANNEL	Overwintering habitat present within canyon section, as well as good habitat complexity there
SITE	SITE CARD	Actually sampled 780 m length

FDIS Fish Form

Watershed Code 460-600600-64400-28100-0000-0000-000-000-000-000-000

Reach # 11.0

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: JH/JA Resample ☐

Site	NID MAP	NID	UTM:Zone/East/North/	Mthd	MTD/NO	Temp	Cond	Turbid	Comment
243	93E.092	13113	9 590673 5974709		EF 1	4.0	110	C	

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

Site	MTD/NO	H/P	Date In	Time In	Date Out	Time Out	Comment
243	EF 1	1	1999/09/13	15:30	1999/09/13	16:40	

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

ELECTROFISHER SPECIFICATIONS							
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Site	MTD/NO	H/P	Encl	Sec.	Length	Width	Volts	Hz	Pulse	Make	Model
243	EF 1	1	O	310	780.0	12.0	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
243	EF 1	1	DV	A	3+	8	115 168	R	

INDIVIDUAL FISH DATA							
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Site	MTD/NO	H/P	Species	Length (mm)	Weight (g)	Sex	Mat	Age	Genetic	Photograph	Comment
243	EF 1	1	DV	160		U	U				
243	EF 1	1	DV	138		U	U				
243	EF 1	1	DV	129		U	U				
243	EF 1	1	DV	168		U	U				
243	EF 1	1	DV	115		U	U				
243	EF 1	1	DV	143		U	U				
243	EF 1	1	DV	145		U	U				
243	EF 1	1	DV	155		U	U				

COMMENTS							
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Photo #: 23 - 11
Site 243, downstream view showing valley below.

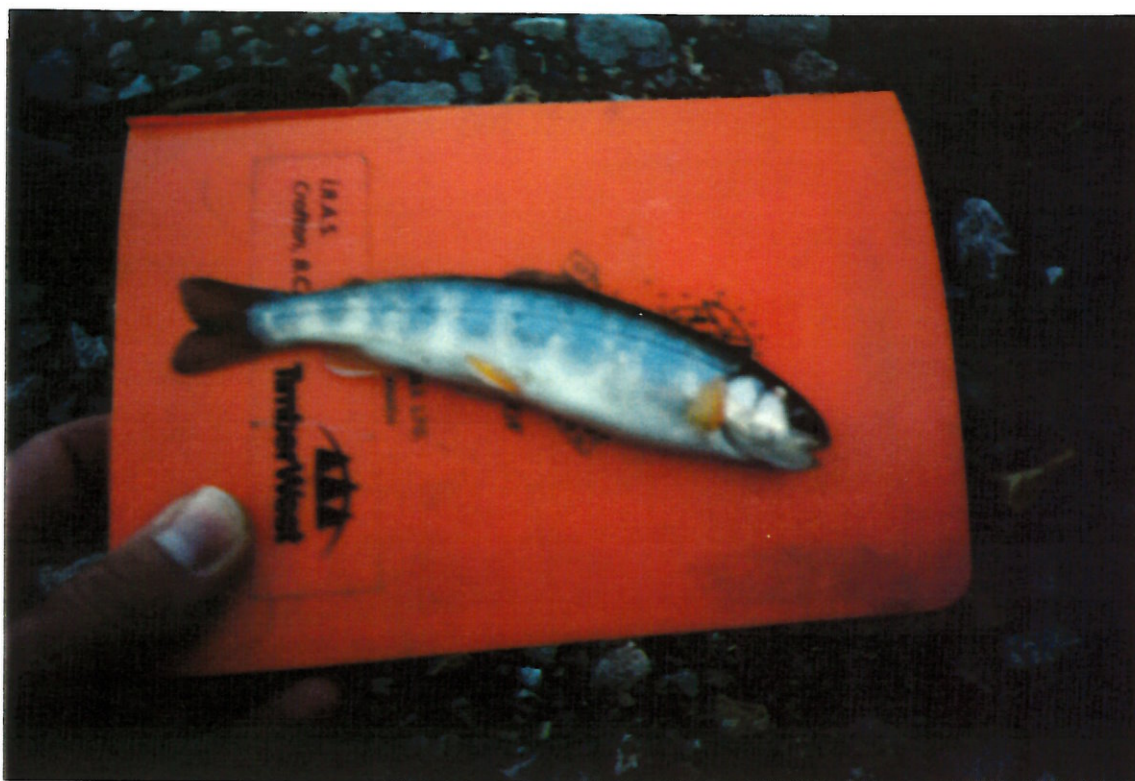


Photo #: 23 - 12
Site 243, photo of a 160 mm dolly varden.



Photo #: 23 - 13
Site 243, upstream view of cascade with two 1 m falls.



Photo #: 23 - 14
Site 243, upstream view of faces at top of canyon.



Photo #: 23 - 10
Site 243, upstream view of stream towards glacier.

Site/Reach Card

Watershed Code 460-600600-64400-28100-0000-0000-000-000-000-000-000

Reach 12.0

Site # 244

Project Name Morice River Fish Inventory - 1999

Project Code 1710

REACH ATTRIBUTES									
Length (km)	1.15	Elevation (m): upstream	1550	downstream	1460	UTM (Zone/East/North/ method)	Sample Type B		
Gradient (%)	7.8	Order	1	Magnitude	2	BGC Zone	AT	9	589634 5973492 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	Confined		Exposed/Eroded		NONE		Width (m)		
Coupling	Decoupled		Islands		NONE		Beaver Dam(s) ☐		
Channel Pattern	Sinuous		Landuse		None/natural		LWD jam(s) ☐		
Riparian Vegetation	NONE		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	JH/JA	Access	H	MAP UTM (Zone/East/North/Method)	9	590122	5974117	GIS	
Site Length (m)	200	Method	NS	Fish Card	☒	Incomplete	☐	NID Map	93E.092 NID # 13114

CHANNEL												
Channel Widths (m)	7.3	6.8	5.9	8.2	9.1	6.5	Average	7.3	Method(s)	T		
Wetted Widths (m)	3.9	4.3	5.1	3.9	4.2	4.9		4.4		T		
Resid. Pool Depths (m)	0.65	0.60	0.65	0.45	0.60	0.65		0.60		MS		
No Vis.Ch.	☐	Dewatered	☐	Gradients (%)			8.0	8.0	7.0	9.0	8.0	C, C
Intermittent	☐	Tributaries	☐	Bankfull Depth (m)						n/a		

Stage	☐ Low	COVER -		Total	Moderate	LWD	None	Dist.	Not Applicable
	☒ Med.	SWD	LWD	Boulder	Cutbank	Deep Pool	Over Veg	Instream Veg	
	☐ High	None	None	Sub-Dominant	None	Dominant	None	None	
Crown Closure	0%	LEFT BANK			RIGHT BANK				
Instream Vegetation	☒ None ☐ Moss ☐ Algae ☐ Vasc.	Shape V - shaped (steep sloping or vertical) Riparian Veg. None Riparian Stage Texture ☐ Fines ☐ Gravel ☒ Cobble ☐ Boulder ☐ Rock ☐ Man Made			Shape V - shaped (steep sloping or vertical) Riparian Veg. None Riparian Stage Texture ☐ Fines ☐ Gravel ☒ Cobble ☐ Boulder ☒ Rock ☐ Man Made				

WATER									
Temperature	4	Method	T3	pH	6.9	Method	P2	EMS #	
Conductivity	110	Method	S3	Turbidity	☐ Turbid ☐ Medium ☐ Light ☒ Clear	Method GE			

MORPHOLOGY									
BED	Dominant Boulders			D95(cm) (only 5%larger)	115				
MATERIAL	Subdominant Cobble			D (cm) (moveable)	40				
Channel Pattern	Irregular, Wandering				Bars ☐ None ☐ Mid ☒ Side ☐ Span ☐ Diag. ☐ Braid				
Coupling	Decoupled								
Confinement	Frequently Confined								
Islands	None								
Abandoned channels		☐ B1	SWD	☐ D1	Extensive riffles	☐ C1	Homog. bed	☐ S1	

Site/Reach Card

Watershed Code 460-600600-64400-28100-0000-0000-000-000-000-000-000

Reach 12.0

Site # 244

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	Abundant gravels, riffle/run habitat
Rearing Habitat	Moderate, frequent deep pools, diverse habitats, moderate gradients, possibly perennial flows (>20%)
OverWinter Habitat	Moderate (10%), frequent large deep pools cascade pools and canyon pools

PHOTO DOCUMENTATION

Film	Compact Disc	Lens / Dir.	Comments
Roll 23 Fr 15 CD 2112 Im 226 STD U	Site 244, upstream view towards glacier, showing bedrock/ boulder habitat.		
Roll 23 Fr 16 CD 2112 Im 227 STD D	Site 244, downstream view showing stream valley.		

WILDLIFE

COMMENT

Form	Section	Comments
SITE	CHANNEL	c1; S5
SITE	CHANNEL	c2; downstream barriers block upstream fish access
SITE	CHANNEL	c6; NA
SITE	CHANNEL	extensive electroshocking effort with no fish; but habitat is suitable for DV

FDIS Fish Form

Watershed Code 460-600600-64400-28100-0000-0000-000-000-000-000-000

Reach # 12.0

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:	JH/JA	Resample	☐	
Site	NID MAP	NID	UTM:Zone/East/North/ Mthd		MTD/NO	Temp	Cond	Turbid	Comment		
244	93E.092	13114	9	590122 5974117	EF 1	4.0	110	C			
GEAR SETTINGS											
Site	MTD/NO	H/P	Date In	Time In	Date Out	Time Out	Comment				
244	EF 1	1	1999/09/13	17:00	1999/09/13	17:30					
NET/TRAP SPECIFICATIONS											
ELECTROFISHER SPECIFICATIONS											
Site	MTD/NO	H/P	Encl	Sec.	Length	Width	Volts	Hz	Pulse	Make	Model
244	EF 1	1	O	380	200.0	7.0	600	60	6	SR	12-B
FISH SUMMARY											
Site	MTD/NO	H/P	Species	Stage	Age	Total #	Lgth (Min/Max)	Activity	Comment		
244	EF	1 1	NFC			0					
INDIVIDUAL FISH DATA											
COMMENTS											



Photo #: 23 - 16
Site 244, downstream view showing stream valley.



Photo #: 23 - 15
Site 244, upstream view towards glacier, showing bedrock/ boulder habitat.

Site/Reach Card

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

Reach 5.0

ILP # 1419

Site # 245

ILP Map # 93L.004

Project Name Morice River Fish Inventory - 1999

Project Code 1710

REACH ATTRIBUTES

Sample Type B

Length (km) 1.68 Elevation (m): upstream 1560 downstream 1120 UTM (Zone/East/North/ method)
 Gradient (%) 26.2 Order 1 Magnitude 1 BGC Zone AT 9 608330 598450 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 Shrubs Valley Flat No valley flat on either bank (C)ontinuous ☒ (D)iscontinuous ☐

SITE

Gazetted Name Local Name Unnamed
 Survey Date 1999/09/15 Time 09:00 Agency: C151
 Crew JH/JA Access V2 MAP UTM (Zone/East/North/Method) 9 608477 5985596 GIS
 Site Length (m) 600 Method NS Fish Card ☒ Incomplete ☐ NID Map 93L.004 NID # 13115

CHANNEL

	Average						Method(s)
Channel Widths (m)	0.7	0.8	0.8	0.7	0.8	0.7	T
Wetted Widths (m)	0.5	0.4	0.5	0.4	0.3	0.4	T
Resid. Pool Depths (m)	0.05	0.05	0.05				MS

No Vis.Ch. ☐	Dewatered ☐	Gradients (%)	20.0	21.0	22.0	18.0	20.2	C, C
Intermittent ☐	Tributaries ☐	Bankfull Depth (m)	1.1	1.1	1.0		1.1	T

Stage ☐ Low
☒ Med.
☐ High

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

Crown Closure
 21-40%

Instream Vegetation

☐ None ☒ Moss
☐ Algae ☒ Vasc.

LEFT BANK

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

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

RIGHT BANK

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

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

WATER

Temperature 8 Methoc T3 pH 6.9 Method P2 EMS #
 Conductivity 100 Method S3 Turbidity ☐ Turbid ☐ Medium ☐ Light ☒ Clear Method GE

MORPHOLOGY

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

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

Morphology Code
 CP

Bars

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

Site/Reach Card

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

Reach 5.0

ILP # 1419

Site # 245

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 ☐

Tribs ☐

Flood Cha ☐

Sloug ☐

Name	Comments
Spawning Habitat	Low. Few patchy accumulations of gravel (<5%) and non-perennial flows
Rearing Habitat	Low. High gradients, limited pool depths, difficult access due to cascades throughout (30-80 cm)
OverWinter Habitat	None.

PHOTO DOCUMENTATION

Film	Compact Disc	Lens / Dir.	Comments
Roll 23 Fr 17 CD 2112 Im 228 STD U			Site 245, upstream view of high gradient section within machine free zone.
Roll 23 Fr 18 CD 2112 Im 229 STD D			Site 245, downstream view of high gradient section with high cover.

WILDLIFE

COMMENTS

Form	Section	Comments
SITE	CHANNEL	C1; S6
SITE	CHANNEL	C2; non fish bearing based on high gradient, numerous cascades ~80 cm, and limited discharge.
SITE	CHANNEL	C6; 008539
SITE	MORPHOLOGY	Cascades created by debris accumulation and coupling; cascades over logs, angular substrate and sediment.

FDIS Fish Form

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

Reach # 5.0

ILP # 1419

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:	1999/09/15	To:	1999/09/15	Crew:	JH/JA	Resample ☐			
Site	NID MAP	NID	UTM:Zone/East/North/ Mthd	MTD/NO	Temp	Cond	Turbid	Comment			
245	93L.004	13115	9 608477 5985596	EF 1	8.0	110	C				
GEAR SETTINGS											
Site	MTD/NO	H/P	Date In	Time In	Date Out	Time Out	Comment				
245	EF 1	1	1999/09/15	08:45	1999/09/15	09:25					
NET/TRAP SPECIFICATIONS											
ELECTROFISHER SPECIFICATIONS											
Site	MTD/NO	H/P	Encl	Sec.	Length	Width	Volts	Hz	Pulse	Make	Model
245	EF 1	1	O	480	200.0	2.0	600	60	6	SR	12-B
FISH SUMMARY											
Site	MTD/NO	H/P	Species	Stage	Age	Total #	Lgth (Min/Max)	Activity	Comment		
245	EF	1	1	NFC		0					
INDIVIDUAL FISH DATA											
COMMENTS											



Photo #: 23 - 18
Site 245, downstream view of high gradient section with high cover.



Photo #: 23 - 17
Site 245, upstream view of high gradient section within machine free zone.

Site/Reach Card

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

Reach 3.0

ILP # 1419

Site # 246

ILP Map # 93L.004

Project Name Morice River Fish Inventory - 1999

Project Code 1710

REACH ATTRIBUTES										Sample Type	B	
Length (km)	.97	Elevation (m): upstream	1040	downstream	950	UTM (Zone/East/North/ method)						
Gradient (%)	9.3	Order	3	Magnitude	7	BGC Zone	ESSF	9	608668	598645	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	☐	
									(D)iscontinuous	☒ N		

SITE										
Gazetted Name	Local Name Unnamed									
Survey Date	1999/09/15	Time	11:06	Agency:	C151					
Crew	JH/JA	Access	V2	MAP UTM (Zone/East/North/Method)	9	608509	5986644	GIS		
Site Length (m)	400	Method	GE	Fish Card	☒ Incomplete	☐	NID Map	93L.004	NID #	13116

CHANNEL										
Channel Widths (m)	2.8	2.5	3.8	4.0	2.5	2.5	Average	Method(s)		
Wetted Widths (m)	1.4	1.3	1.0	1.2	1.0	1.1	3.0	T		
Resid. Pool Depths (m)	0.30	0.20	0.35	0.35	0.20	0.35	1.2	T		
							0.29	MS		
No Vis.Ch.	☐	Dewatered	☐	Gradients (%)	7.0	8.0	9.0	8.0	8.0	C, C
Intermittent	☐	Tributaries	☐	Bankfull Depth (m)	0.8	0.8	0.9	0.8	0.8	T

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

WATER										
Temperature	8	Methoc	T3	pH	7.0	Method	P2	EMS #		
Conductivity	110	Method	S3	Turbidity	☐ Turbid	☐ Medium	☐ Light	☒ Clear	Method	GE

MORPHOLOGY									
BED	Dominant Gravels			D95(cm) (only 5%larger)	80				
MATERIAL	Subdominant Cobble			D (cm) (moveable)	25				
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

Reach 3.0

ILP # 1419

Site # 246

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 6.0 Method T Length 8 Method T

Comments Cascade has a 2 m falls in it

Photograph Roll 23 Frame 24 UTM (Zone/East/North/ Method) 9 608631 598654 GIS

HABITAT QUALITY

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

Name	Comments
Spawning Habitat	Moderate. High accumulations of gravels, perennial flows (>50%)
Rearing Habitat	Moderate. good cover and habitat complexity, and LWD provides various habitat types (>20%)
OverWinter Habitat	Poor. No pools > 80 cm deep (<2%)

PHOTO DOCUMENTATION

Film	Compact Disc	Lens / Dir.	Comments
Roll 23 Fr 24 CD	Im	STD U	Site 246, view of 2 m falls
Roll 23 Fr 19 CD 2112	Im 230	STD U	Site 246, upstream view of suitable rearing and spawning habitats.
Roll 23 Fr 20 CD 2112	Im 231	STD D	Site 246, downstream view of spawning habitat and functioning LWD.
Roll 23 Fr 22 CD 2112	Im 233	STD U	Site 246, upstream view of 3/5 m chute upstream of lower cascades.
Roll 23 Fr 23 CD 2112	Im 234	STD U	Site 246, upstream view of 3/3 m cascades (velocity barrier with no plunge pool).

WILDLIFE

COMMENTS

Form	Section	Comments
SITE	CHANNEL	c1; S3/ S5
SITE	CHANNEL	C2; DV captured downstream of cascade, but no fish captured upstream.
SITE	CHANNEL	C6; FC# 024893
SITE	CHANNEL	Resample upstream of cascades (once)
SITE	CHANNEL	Stream was walked from R5 - R3; a few high velocity sections and other small cascades present.
SITE	CHANNEL	Downstream cutblock has been harvested across stream.

FDIS Fish Form

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

Reach # 3.0

ILP # 1419

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: JH/JA Resample ☐

Site	NID MAP	NID	UTM:Zone/East/North/	Mthd	MTD/NO	Temp	Cond	Turbid	Comment
246	93L.004	13116	9 608509 5986644		EF 1	8.0	110	C	

GEAR SETTINGS

Site	MTD/NO	H/P	Date In	Time In	Date Out	Time Out	Comment
246	EF 1	1	1999/09/15	11:06	1999/09/15	11:38	

NET/TRAP SPECIFICATIONS

ELECTROFISHER SPECIFICATIONS

Site	MTD/NO	H/P	Encl	Sec.	Length	Width	Volts	Hz	Pulse	Make	Model
246	EF 1	1	O	342	400.0	2.0	600	60	6	SR	12-B

FISH SUMMARY

Site	MTD/NO	H/P	Species	Stage	Age	Total #	Lgth (Min/Max)	Activity	Comment
246	EF 1	1	DV	A	3+	12	110 195	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
246	EF	1	1	DV	112	U	U				23 21	
246	EF	1	1	DV	163	U	U					
246	EF	1	1	DV	172	U	U					
246	EF	1	1	DV	110	U	U					
246	EF	1	1	DV	125	U	U					
246	EF	1	1	DV	195	U	U					
246	EF	1	1	DV	180	U	U					
246	EF	1	1	DV	163	U	U					
246	EF	1	1	DV	168	U	U					
246	EF	1	1	DV	172	U	U					
246	EF	1	1	DV	189	U	U					
246	EF	1	1	DV	187	U	U					

COMMENTS

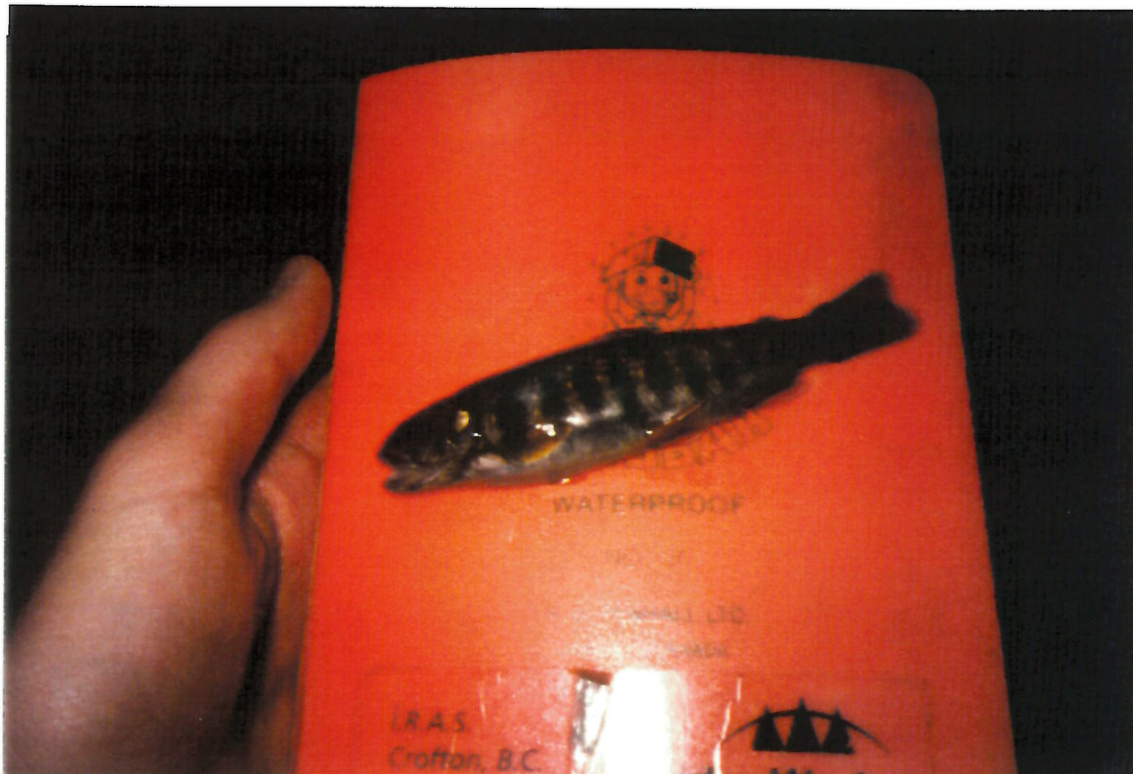


Photo #: 23 - 21
Site 246, photo of a 112 mm dolly varden.



Photo #: 23 - 23
Site 246, upstream view of 3/3 m cascades (velocity barrier with no plunge pool).



Photo #: 23 - 22

Site 246, upstream view of 3/5 m chute upstream of lower cascades.



Photo #: 23 - 19

Site 246, upstream view of suitable rearing and spawning habitats.



Photo #: 23 - 20

Site 246, downstream view of spawning habitat and functioning LWD.

FDIS Fish Form

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

Reach # 4.0

ILP # 1419

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: JH/JA Resample ☐

Site	NID MAP	NID	UTM:Zone/East/North/	Mthd	MTD/NO	Temp	Cond	Turbid	Comment
247	93L.004	13117	9	608752 5986337	EF 1	8.0	110	C	

GEAR SETTINGS							
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Site	MTD/NO	H/P	Date In	Time In	Date Out	Time Out	Comment
247	EF 1	1	1999/09/15	09:30	1999/09/15	10:15	

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

Site	MTD/NO	H/P	Encl	Sec.	Length	Width	Volts	Hz	Pulse	Make	Model
247	EF 1	1	O	458	200.0	1.5	600	60	6	SR	12-B

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

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

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

COMMENTS											
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Site/Reach Card

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

Reach 1.0
Site # 248

ILP # 1422
ILP Map # 93L.004

Project Name Morice River Fish Inventory - 1999

Project Code 1710

REACH ATTRIBUTES										Sample Type	B	
Length (km)	.65	Elevation (m): upstream	1100	downstream	1039	UTM (Zone/East/North/ method)						
Gradient (%)	9.4	Order	2	Magnitude	2	BGC Zone	ESSF	9	609200	598620	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	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	10:35	Agency:	C151					
Crew	JH/JA	Access	V2	MAP UTM (Zone/East/North/Method)	9	608879	5986379	GIS		
Site Length (m)	100	Method	HC	Fish Card	☒ Incomplete	☐	NID Map	93L.004	NID #	13118

CHANNEL												
Channel Widths (m)	3.6	4.2	3.9	4.1	4.0	3.2	Average	3.8	Method(s)	T		
Wetted Widths (m)	1.1	1.9	1.4	1.3	1.6	1.7		1.5		T		
Resid. Pool Depths (m)	0.30	0.35	0.30	0.35	0.35	0.30		0.32		MS		
No Vis.Ch.	☐	Dewatered	☐	Gradients (%)			10.0	8.0	9.0	7.0	8.5	C, C
Intermittent	☐	Tributaries	☐	Bankfull Depth (m)			1.1	1.0	1.0		1.0	T

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

WATER										
Temperature	8	Methoc	T3	pH	6.9	Method	P2	EMS #		
Conductivity	110	Method	S3	Turbidity	☐ Turbid	☐ Medium	☐ Light	☒ Clear	Method	GE

MORPHOLOGY									
BED	Dominan Gravels			D95(cm) (only 5%larger)			80		
MATERIAL	Subdominant Cobble			D (cm) (moveable)			10		

Channel Pattern Irregular, Wandering
Coupling Partially Coupled
Confinement Occasionally 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 # 1422

Site # 248

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 ☐

Trips ☐

Flood Cha ☐

Sloug ☐

Name	Comments
Spawning Habitat	Moderate. High accumulations of gravels, perennial flows, laminar/glide flows (~26%)
Rearing Habitat	Moderate. Good cover, flows and access, boulders provide adequate cover and stability (25%)
OverWinter Habitat	Poor. No pools >50 cm deep.

PHOTO DOCUMENTATION

WILDLIFE

COMMENTS

Form	Section	Comments
SITE	CHANNEL	c1; S5
SITE	CHANNEL	C2; downstream barrier prevents fish access
SITE	CHANNEL	c6;
SITE	CHANNEL	Stream site is located immediately upstream of confluence with 1419
SITE	CHANNEL	Habitats are suitable for various salmonids of various sizes

FDIS Fish Form

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

Reach # 1.0

ILP # 1422

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:	1999/09/15	To:	1999/09/15
		Crew:	JH/JA		
		Resample	☐		
Site	NID MAP	NID	UTM:Zone/East/North/ Mthd	MTD/NO	Temp
					Cond
					Turbid
					Comment
248	93L.004	13118	9 608879 5986379	EF 1	8.0 110 C
GEAR SETTINGS					
Site	MTD/NO	H/P	Date In	Time In	Date Out
					Time Out
					Comment
248	EF 1	1	1999/09/15	10:25	1999/09/15 10:50
NET/TRAP SPECIFICATIONS					
ELECTROFISHER SPECIFICATIONS					
Site	MTD/NO	H/P	Encl	Sec.	Length
					Width
					Volts
					Hz
					Pulse
					Make
					Model
248	EF 1	1	O	210	100.0 4.0 600 60 6 SR 12-B
FISH SUMMARY					
Site	MTD/NO	H/P	Species	Stage	Age
					Total #
					Lgth (Min/Max)
					Activity
					Comment
248	EF 1	1	NFC		0
INDIVIDUAL FISH DATA					
COMMENTS					

Site/Reach Card

Watershed Code 460-600600-53900-00000-00000-000-000-000-000-000-000

Reach 1.0
Site # 249

Project Name Morice River Fish Inventory - 1999

Project Code 1710

REACH ATTRIBUTES										Sample Type		
Length (km)	2.01	Elevation (m): upstream	900	downstream	740	UTM (Zone/East/North/ method)						
Gradient (%)	8.0	Order	2	Magnitude	4	BGC Zone	SBS	9	608517	6003670 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	Mixed C/D			Valley Flat	No valley flat on either bank			(C)ontinuous ☒ (D)iscontinuous ☐				

SITE										
Gazetted Name	Local Name Unnamed									
Survey Date	1999/09/15	Time	13:30	Agency: C151						
Crew	JH/JA	Access	V2	MAP UTM (Zone/East/North/Method)	9	608155	6003714	GIS		
Site Length (m)	300	Method	HC	Fish Card	☒ Incomplete	☐	NID Map	93L.014	NID # 13119	

CHANNEL												
Channel Widths (m)	1.9	2.6	2.3	2.8	3.2	1.9	Average	Method(s)				
Wetted Widths (m)	0.9	1.2	0.7	1.3	1.5	1.4	2.4	T				
Resid. Pool Depths (m)	0.20	0.20	0.15	0.20	0.25	0.15	1.2	T				
							0.19	MS				
No Vis.Ch.	☐	Dewatered	☐	Gradients (%)			6.0	7.0	6.0	7.0	6.5	C, C
Intermittent	☐	Tributaries	☐	Bankfull Depth (m)			1.1	1.1	1.0	1.1	T	

Stage	☒ Low	COVER -		Total	Moderate	LWD Few	Dist.	Clumped	
	☐ Med.	SWD	LWD	Boulder	Cutbank	Deep Pool	Over Veg	Instream Veg	
	☐ High	Sub-Dominant	Dominant	Trace	None	Trace	Trace	None	
Crown Closure	21-40%	LEFT BANK				RIGHT BANK			
Instream Vegetation		Shape Undercut				Shape Undercut			
☐ None	☒ Moss	Riparian Veg. Mixed C/D				Riparian Veg. Mixed C/D			
☐ 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	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)			60		
MATERIAL	Subdominant Gravels			D (cm) (moveable)			10		
Channel Pattern	Irregular, Wandering								
Coupling	Coupled								
Confinement	Frequently Confined								
Islands	None								
Abandoned channels ☐ B1				SWD ☐ D1		Extensive riffles ☐ C1		Homog. bed ☐ S1	
Morphology Code					Bars ☐ None ☐ Mid ☒ Side ☐ Span ☐ Diag. ☐ Braid				
RP									

Site/Reach Card

Watershed Code 460-600600-53900-00000-0000-000-000-000-000-000

Reach 1.0
Site # 249

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 3.0	Method T	Length	Method
Comments 3 m falls at edge of cutblock				
Photograph	Roll 24	Frame 1	UTM (Zone/East/North/ Method)	9 608251 6003650 GIS

HABITAT QUALITY

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

Name	Comments
Spawning Habitat	Moderate. (~15%) Good accumulations of gravels (clean), perennial flows, moderate gradient.
Rearing Habitat	Moderate. (~20%) Frequent deep pools, abundant cover (LWD, overhanging vegetation) diverse habitats, frequent riffles/pools.
OverWinter Habitat	Moderage (~5%) Plunge pools below cascades/ falls, and canyon pools present

PHOTO DOCUMENTATION

Film	Compact Disc	Lens / Dir.	Comments
Roll 24 Fr 1	CD 2112 Im 235	STD U	Site 249; upstream view of 3 m falls adjacent to corner of cutblock.
Roll 24 Fr 2	CD 2112 Im 236	STD U	Site 249, upstream view of heavy gravel/cobble section with functioning LWD.
Roll 24 Fr 3	CD 2112 Im 237	STD D	Site 249, downstream view of one of many SWD/LWD jam which create habitat complexity.

WILDLIFE

COMMENT

Form	Section	Comments
SITE	CHANNEL	c1; S6
SITE	CHANNEL	c2; downstream barrier (cascade/falls) blocks fish access to this site
SITE	CHANNEL	c6; NA
SITE	CHANNEL	No fish captured downstream of falls with extensive electroshocking
SITE	CHANNEL	habitat present throughout site would support salmonids if access was possible
SITE	CHANNEL	moderate cover, coarse substrates, perennial flows, moderate gradients, abundant lwd cover

FDIS Fish Form

Watershed Code 460-600600-53900-00000-0000-0000-000-000-000-000-000

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: 1999/09/15 To: 1999/09/15 Crew: JH/JA Resample ☐

Site	NID MAP	NID	UTM:Zone/East/North/ Mthd	MTD/NO	Temp	Cond	Turbid	Comment
249	93L014	13119	9 608155 6003714	EF 1	9.0	70	C	

GEAR SETTINGS

Site	MTD/NO	H/P	Date In	Time In	Date Out	Time Out	Comment
249	EF 1	1	1999/09/15	13:30	1999/09/15	14:50	

NET/TRAP SPECIFICATIONS

ELECTROFISHER SPECIFICATIONS

Site	MTD/NO	H/P	Encl	Sec.	Length	Width	Volts	Hz	Pulse	Make	Model
249	EF 1	1	O	820	300.0	2.5	600	60	6	SR	12-B

FISH SUMMARY

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

INDIVIDUAL FISH DATA

COMMENTS



Photo #: 24 - 3

Site 249, downstream view of one of many SWD/LWD jam which create habitat complexity.



Photo #: 24 - 2

Site 249, upstream view of heavy gravel/cobble section with functioning LWD.



Photo #: 24 - 1

Site 249, upstream view of 3 m falls adjacent to corner of cutblock.

Site/Reach Card

Watershed Code 460-600600-36400-64100-2380-0000-000-000-000-000-000

Reach 4.0

Site # 250

Project Name Morice River Fish Inventory - 1999

Project Code 1710

REACH ATTRIBUTES									
Length (km)	.94	Elevation (m): upstream	870	downstream	863	UTM (Zone/East/North/ method)	Sample Type ☒ B		
Gradient (%)	0.7	Order	2	Magnitude	2	BGC Zone	SBS	9	623791 5992558 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	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	1999/09/16	Time	09:00	Agency:	C151				
Crew	JH/EM	Access	V2	MAP UTM (Zone/East/North/Method)	9	623030	5992422	GIS	
Site Length (m)	650	Method	NS	Fish Card	☒ Incomplete ☐	NID Map	93L.005	NID # 13120	

CHANNEL										
Channel Widths (m)	0.8	0.8	0.9	0.8	0.6	1.0	Average	Method(s)		
Wetted Widths (m)	0.4	0.7	0.7	0.9	0.6	0.4	0.8	T		
Resid. Pool Depths (m)	0.10	0.15	0.10				0.6	T		
							0.12	MS		
No Vis.Ch.	☐	Dewatered	☐	Gradients (%)			2.0	1.0	2.0	1.0
Intermittent	☐	Tributaries	☐	Bankfull Depth (m)			0.9	0.9	0.9	0.9
							1.5	C, C		
							0.9	T		

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

WATER									
Temperature	8	Method	T3	pH	6.8	Method	P2	EMS #	
Conductivity	105	Method	S3	Turbidity	☐ Turbid ☐ Medium ☐ Light ☒ Clear	Method GE			

MORPHOLOGY									
BED	Dominant Fines			D95(cm) (only 5% larger)			1		
MATERIAL	Subdominant Gravels			D (cm) (moveable)			0.5		
Channel Pattern	Irregular, Wandering			Morphology Code			RP		
Coupling	Decoupled			Bars			☒ None ☐ Mid ☐ Side ☐ Span ☐ Diag. ☐ Braid		
Confinement	Unconfined			Abandoned channels			☐ B1		
Islands	None			SWD			☐ D1		
				Extensive riffles			☐ C1		
				Homog. bed			☐ S1		

Site/Reach Card

Watershed Code 460-600600-36400-64100-2380-0000-000-000-000-000-000

Reach 4.0
Site # 250

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 ☒
		Trib. ☒	Flood/Beaver ☒
		Flood Chan ☒	Slough ☒

Name	Comments
Spawning Habitat	None. No accumulations of gravels, stagnant, limited flows, with wetland/ organic substrates
Rearing Habitat	Poor. Pools are present with adequate cover, but DO may be unsuitable, high algal growth present
OverWinter Habitat	None.

PHOTO DOCUMENTATION							
Film	Compact Disc	Lens / Dir.	Comments				
Roll 24 Fr 4 CD 2112 Im 238 STD U	Site 250; Upstream view of stagnant pool.						
Roll 24 Fr 5 CD 2112 Im 239 STD D	Site 250; downstream view of stagnant pool with SWD.						

WILDLIFE

COMMENT		
Form	Section	Comments
SITE	CHANNEL	c1; S4
SITE	CHANNEL	c2; RB captured immediately upstream of Bill nye lake at lake edge; upstream classified fish bearing based on gradients only
SITE	CHANNEL	c6; 024890
SITE	CHANNEL	Habitat upstream of Bill Nye Lake is questionable, isolated stagnant pools limit access; fish were captured in wetland/ slough at lake edge;

FDIS Fish Form

Watershed Code 460-600600-36400-64100-2380-0000-000-000-000-000-000

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: 1999/09/16 To: 1999/09/16 Crew: JH/EM Resample ☐

Site	NID MAP	NID	UTM:Zone/East/North/ Mthd	MTD/NO	Temp	Cond	Turbid	Comment
250	93L.005	13120	9 623030 5992422	EF 1	8.0	105	C	

GEAR SETTINGS

Site	MTD/NO	H/P	Date In	Time In	Date Out	Time Out	Comment
250	EF 1	1	1999/09/16	09:00	1999/09/16	10:00	

NET/TRAP SPECIFICATIONS

ELECTROFISHER SPECIFICATIONS

Site	MTD/NO	H/P	Encl	Sec.	Length	Width	Volts	Hz	Pulse	Make	Model
250	EF 1	1	O	310	650.0	0.8	600	60	6	SR	12-B

FISH SUMMARY

Site	MTD/NO	H/P	Species	Stage	Age	Total #	Lgth (Min/Max)	Activity	Comment
250	EF 1	1	RB	F	0+	3	25 30	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
250	EF 1	1	RB	30		U	U					
250	EF 1	1	RB	30		U	U					
250	EF 1	1	RB	25		U	U					

COMMENTS



Photo #: 24 - 5
Site 250, downstream view of stagnant pool with SWD.



Photo #: 24 - 4
Site 250, Upstream view of stagnant pool.

Site/Reach Card

Watershed Code 460-600600-36400-39700-0440-0000-000-000-000-000-000

Reach 2.0

Site # 251

Project Name Morice River Fish Inventory - 1999

Project Code 1710

REACH ATTRIBUTES									
Length (km)	1.83	Elevation (m): upstream	908	downstream	802	UTM (Zone/East/North/ method)			
Gradient (%)	5.8	Order	2	Magnitude	2	BGC Zone	SBS	9	624045 5995733 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	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	1999/09/16	Time	10:30	Agency:	C151				
Crew	JH/EM	Access	V2	MAP UTM (Zone/East/North/Method)	9	623554	5995798	GIS	
Site Length (m)	220	Method	HC	Fish Card	☒ Incomplete ☐	NID Map	93L.005	NID # 13121	

CHANNEL												
Channel Widths (m)	1.0	0.9	0.7	0.8	1.2	0.8	Average	Method(s)				
Wetted Widths (m)	0.4	0.5	0.4	0.4	0.5	0.5	0.9	T				
Resid. Pool Depths (m)	0.10	0.15	0.10				0.5	T				
							0.12	MS				
No Vis.Ch.	☐	Dewatered	☐	Gradients (%)			6.0	5.0	4.0	5.0	5.0	C, C
Intermittent	☐	Tributaries	☐	Bankfull Depth (m)			0.6	0.7	0.5	0.6	T	

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

WATER									
Temperature	7	Method	T3	pH	7.2	Method	P2	EMS #	
Conductivity	100	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)		5				
Channel Pattern	Irregular, Wandering		Morphology Code		RP				
Coupling	Partially Coupled		Bars		☐ None ☐ Mid ☒ Side ☐ Span ☐ Diag. ☐ Braid				
Confinement	Occasionally Confined		Abandoned channels		☐ B1				
Islands	None		SWD		☐ D1				
		Extensive riffles		☐ C1					
		Homog. bed		☐ S1					

Site/Reach Card

Watershed Code 460-600600-36400-39700-0440-0000-000-000-000-000-000

Reach 2.0

Site # 251

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
Spawning Habitat	Moderate (~15%). Numerous accumulations of gravels throughout stie, various riffle/run/pool complexes
Rearing Habitat	Poor. (~10%). Suitable for fry/juveniles, shallow pool depths, limited, non perennial flows
OverWinter Habitat	None

PHOTO DOCUMENTATION

Film	Compact Disc	Lens / Dir.	Comments
Roll 24 Fr 6 CD 2112 Im 240 STD U			Site 251, upstream view of riffle/pool complex with large moss covered rocks.
Roll 24 Fr 7 CD 2112 Im 241 STD D			Site 251, downstream view of stagnant, leaf covered pool.

WILDLIFE

COMMENT

Form	Section	Comments
SITE	CHANNEL	c1; S4
SITE	CHANNEL	c2; No downstream barriers encountered in sample site,
SITE	CHANNEL	c6; 024889
SITE	CHANNEL	Stream is difficult to shock during these low flow conditions
SITE	CHANNEL	Debris/ sediment james create small impassable falls/cascades (10-30 cm);Stream may lack sufficient discharge to move these
SITE	CHANNEL	No significant barriers located, but downstream gradient combined with heavy debris torrent may limit access

FDIS Fish Form

Watershed Code 460-600600-36400-39700-0440-0000-000-000-000-000-000

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:	1999/09/16	To:	1999/09/16	Crew:	JH/EM	Resample ☐			
Site	NID MAP	NID	UTM:Zone/East/North/ Mthd		MTD/NO	Temp	Cond	Turbid	Comment		
251	93L.005	13121	9	623554 5995798	EF 1	7.0	100	C			
GEAR SETTINGS											
Site	MTD/NO	H/P	Date In	Time In	Date Out	Time Out	Comment				
251	EF 1	1	1999/09/16	10:30	1999/09/16	11:40					
NET/TRAP SPECIFICATIONS											
ELECTROFISHER SPECIFICATIONS											
Site	MTD/NO	H/P	Encl	Sec.	Length	Width	Volts	Hz	Pulse	Make	Model
251	EF 1	1	O	630	220.0	1.0	600	60	6	SR	12-B
FISH SUMMARY											
Site	MTD/NO	H/P	Species	Stage	Age	Total #	Lgth (Min/Max)	Activity	Comment		
251	EF 1	1	NFC			0					
INDIVIDUAL FISH DATA											
COMMENTS											



Photo #: 24 - 7
Site 251, downstream view of stagnant, leaf covered pool.



Photo #: 24 - 6
Site 251, upstream view of riffle/pool complex with large moss covered rocks.

Site/Reach Card

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

Reach 2.0

ILP # 1085

Site # 252

ILP Map # 93L.015

Project Name Morice River Fish Inventory - 1999

Project Code 1710

REACH ATTRIBUTES										Sample Type	B	
Length (km)	1.27	Elevation (m): upstream	880	downstream	795	UTM (Zone/East/North/ method)						
Gradient (%)	6.7	Order	1	Magnitude	1	BGC Zone	SBS	9	621759	599524	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	Logging, with reserves				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	1999/09/16	Time	12:00	Agency:	C151						
Crew	JH/EM	Access	V2	MAP UTM (Zone/East/North/Method)	9	621855	5995777	GIS			
Site Length (m)	200	Method	NS	Fish Card	☐ Incomplete	☐	NID Map	93L.005	NID #	13122	

CHANNEL											
Channel Widths (m)	0.4	0.4	0.4	0.5	0.4	0.3	Average	Method(s)			
Wetted Widths (m)							0.4	T			
Resid. Pool Depths (m)							n/a				
							n/a				
No Vis.Ch.	☐	Dewatered	☐	Gradients (%)	2.0	2.0	2.0	C			
Intermittent	☒	Tributaries	☐	Bankfull Depth (m)	0.2	0.3	0.2	0.2	T		

Stage	☒ Low	COVER -	Total	None	LWD	None	Dist.		
	☐ Med.	SWD	LWD	Boulder	Cutbank	Deep Pool	Over Veg	Instream Veg	
	☐ High	None	None	None	None	None	None	None	
Crown Closure	0%	LEFT BANK			RIGHT BANK				
Instream Vegetation		Shape V - shaped (steep sloping or vertical)			Shape V - shaped (steep sloping or vertical)				
☐ None	☐ Moss	Riparian Veg. Shrubs			Riparian Veg. Shrubs				
☐ Algae	☒ Vasc.	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	Method	pH	Method	EMS #					
Conductivity	Method	Turbidity	☐ Turbid	☐ Medium	☐ Light	☐ Clear	Method		

MORPHOLOGY									
BED	Dominant Fines			D95(cm) (only 5%larger)	0.5				
MATERIAL	Subdominant Cobble			D (cm) (moveable)	0.2				
Channel Pattern	Irregular, Wandering			Morphology Code	LC	Bars			
Coupling	Decoupled					☒ None	☐ Mid		
Confinement	Unconfined					☐ Side	☐ Span		
Islands	None					☐ Diag.	☐ Braid		

Site/Reach Card

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

Reach 2.0

ILP # 1085

Site # 252

ILP Map # 93L.015

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	None. No accumulations of gravels, gravel substrates are present in patches, but are covered with fines and organic materials
Rearing Habitat	None, no pools/riffle/run complexes, ponded sections are heavily ingrown with carex sp
OverWinter Habitat	None.

PHOTO DOCUMENTATION

Film	Compact Disc	Lens / Dir.	Comments
Roll 24 Fr 8 CD 2112 Im 242 STD U	Site 252, upstream view of scoured section of stream with SWD and cobble.		
Roll 24 Fr 9 CD 2112 Im 243 STD D	Site 252, downstream view of heavily vegetated section of channel.		

WILDLIFE

COMMENTS

Form	Section	Comments
SITE	CHANNEL	C1; S6
SITE	CHANNEL	C2; non fish bearing from downstream edge of cutblock upstream.
SITE	CHANNEL	Stream runs through cutblock and becomes braided and heavily vascularized, lacks connectivity with isolated pools, and the natural drainage has been altered by cutblock and road crossing.



Photo #: 24 - 9

Site 252, downstream view of heavily vegetated section of channel.



Photo #: 24 - 8

Site 252, upstream view of scoured section of stream with SWD and cobble.

Site/Reach Card

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

Reach 2.0

ILP # 1169

Site # 253

ILP Map # 93L.015

Project Name Morice River Fish Inventory - 1999

Project Code 1710

REACH ATTRIBUTES										Sample Type	N	
Length (km)	1.66	Elevation (m): upstream	860	downstream	696	UTM (Zone/East/North/ method)						
Gradient (%)	9.9	Order	2	Magnitude	3	BGC Zone	SBS	9	619227	600391	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	Irregular, Wandering			Landuse	None/natural				LWD jam(s)	☐		
Riparian Vegetation	Shrubs			Valley Flat	Valley flat on both; also if valley flat present							
									(C)ontinuous	☐		
									(D)iscontinuous	☐		

SITE										
Gazetted Name	Local Name Unnamed									
Survey Date	1999/09/16	Time	13:44	Agency:	C151					
Crew	JH/EM	Access	V2	MAP UTM (Zone/East/North/Method)	9	619270	6005046	GIS		
Site Length (m)	300	Method	GE	Fish Card	☒ Incomplete	☐	NID Map	93L.015	NID #	13123

CHANNEL										
Channel Widths (m)	1.1	1.3	1.5	1.4	1.2	1.3	Average	Method(s)		
Wetted Widths (m)	1.0	1.0	1.0	1.4	1.0	1.2	1.3	T		
Resid. Pool Depths (m)	0.10	0.20	0.20	0.15			1.1	T		
							0.16	MS		
No Vis.Ch.	☐	Dewatered	☐	Gradients (%)	5.0	5.0	4.0	3.0	4.2	C, C
Intermittent	☐	Tributaries	☐	Bankfull Depth (m)	0.5	0.5	0.5		0.5	T

Stage	☒ Low	COVER - Total Moderate LWD Few							Dist.	Clumped
	☐ 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 V - shaped (steep sloping or vertical)				Shape V - shaped (steep sloping or vertical)				
☐ None	☒ Moss	Riparian Veg. Shrubs				Riparian Veg. Shrubs				
☐ Algae	☒ Vasc.	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	8	Methoc	T3	pH	6.7	Method	P2	EMS #	
Conductivity	40	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)	7				
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 2.0

ILP # 1169

Site # 253

ILP Map # 93L.015

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 .5	Method T	Length 8	Method T
Comments 0.3 m perched culvert				
Photograph	Roll 24	Frame 10	UTM (Zone/East/North/ Method)	9 619201 600493 GIS

HABITAT QUALITY

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

Name	Comments
Spawning Habitat	Moderate (~15%). Good accumulations of clean RBT/CT sized gravels, adequate riffle/glide type flows over gravels
Rearing Habitat	Moderate (~20%). Limited pools, and shallow riffle/run habitat
OverWinter Habitat	None. No pools >20 cm, flows non perennial

PHOTO DOCUMENTATION

Film	Compact Disc	Lens / Dir.	Comments
Roll 24 Fr 10 CD 2112 Im 244 STD U	Site 253, upstream view of perched culvert (30 cm) with large pool downstream.		
Roll 24 Fr 11 CD 2112 Im 245 STD U	Site 253, upstream view of riffle/ run section with cobble / gravel substrate.		
Roll 24 Fr 12 CD 2112 Im 246 STD D	Site 253, downstream view of channel through willow swale.		

WILDLIFE

COMMENTS

Form	Section	Comments
SITE	CHANNEL	c1; S4 (default)
SITE	CHANNEL	c2; based on access only, no permanent barriers encountered within site
SITE	CHANNEL	c6; 024527
SITE	CHANNEL	Possible map anomaly or BD has altered natural drainage pattern as crossing at road was not found (Mainline)
SITE	CHANNEL	High density of invertebrates in stagnant pools; numerous debris jams create small cascades (20-30 cm)

FDIS Fish Form

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

Reach # 2.0

ILP # 1169

ILP Map # 93L.015

Project Name Morice River Fish Inventory - 1999

Project Code 1710

Lake/Stream S		SITE/METHOD		Waterbody ID							
Permit	34770-20	Date:	1999/09/16	To:	1999/09/16	Crew:	JH/EM	Resample ☐			
Site	NID MAP	NID	UTM:Zone/East/North/ Mthd	MTD/NO	Temp	Cond	Turbid	Comment			
253	93L.015	13123	9 619270 6005046	EF 1	8.0	40	C				
GEAR SETTINGS											
Site	MTD/NO	H/P	Date In	Time In	Date Out	Time Out	Comment				
253	EF 1	1	1999/09/16	13:44	1999/09/16	14:20					
NET/TRAP SPECIFICATIONS											
ELECTROFISHER SPECIFICATIONS											
Site	MTD/NO	H/P	Encl	Sec.	Length	Width	Volts	Hz	Pulse	Make	Model
253	EF 1	1	O	810	300.0	1.0	600	60	6	SR	12-B
FISH SUMMARY											
Site	MTD/NO	H/P	Species	Stage	Age	Total #	Lgth (Min/Max)	Activity	Comment		
253	EF	1 1	NFC			0					
INDIVIDUAL FISH DATA											
COMMENTS											



Photo #: 24 - 10
Site 253, upstream view of perched culvert (30 cm) with large pool downstream.



Photo #: 24 - 11
Site 253, upstream view of riffle/ run section with cobble / gravel substrate.



Photo #: 24 - 12
Site 253, downstream view of channel through willow swale.

Site/Reach Card

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

Reach 3.0
Site # 254

ILP # 1169
ILP Map # 93L.015

Project Name Morice River Fish Inventory - 1999

Project Code 1710

REACH ATTRIBUTES										Sample Type	B	
Length (km)	.79	Elevation (m): upstream	1030	downstream	860	UTM (Zone/East/North/ method)						
Gradient (%)	21.5	Order	2	Magnitude	2	BGC Zone	SBS	9	619434	600314	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	Straight			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	1999/09/16	Time	14:50	Agency:	C151					
Crew	JH/EM	Access	V2	MAP UTM (Zone/East/North/Method)	9	619285	6003728	GIS		
Site Length (m)	300	Method	HC	Fish Card	☐ Incomplete	☐	NID Map	93L.015	NID #	13124

CHANNEL										
Channel Widths (m)	1.3	1.6	1.8	1.5	1.8	1.2	Average	1.5	Method(s)	T
Wetted Widths (m)							n/a			
Resid. Pool Depths (m)							n/a			

No Vis.Ch.	☐	Dewatered	☐	Gradients (%)	18.0	17.0	17.0	20.0	18.0	C, C
Intermittent	☒	Tributaries	☐	Bankfull Depth (m)	0.5	0.6	0.5	0.5	0.5	T

Stage	☐ Low	COVER -	Total	None	LWD	None	Dist.
	☐ Med.	SWD	LWD	Boulder	Cutbank	Deep Pool	Over Veg
	☐ High	None	None	None	None	None	None
		None	None	None	None	None	None

Crown Closure	21-40%	LEFT BANK	RIGHT BANK
Instream Vegetation		Shape V - shaped (steep sloping or vertical)	Shape V - shaped (steep sloping or vertical)
		Riparian Veg. Shrubs	Riparian Veg. Shrubs
		Riparian Stage Shrub/herb stage	Riparian Stage Shrub/herb stage
☐ None ☒ Moss		Texture ☐ Fines ☒ Gravel ☐ Cobble	Texture ☐ Fines ☒ Gravel ☐ Cobble
☐ Algae ☐ Vasc.		☐ Boulder ☐ Rock ☐ Man Made	☐ Boulder ☐ Rock ☐ Man Made

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

MORPHOLOGY									
BED	Dominan Boulders	D95(cm) (only 5%larger)	60						
MATERIAL	Subdominant Cobble	D (cm) (moveable)	25						
Channel Pattern	Irregular, Wandering	Morphology Code	CP						
Coupling	Partially Coupled	Bars	☒ None ☐ Mid						
Confinement	Occasionally Confined		☐ Side ☐ Span						
Islands	None		☐ Diag. ☐ Braid						

Site/Reach Card

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

Reach 3.0

ILP # 1169

Site # 254

ILP Map # 93L.015

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 ☐Slough ☐

Name	Comments
Spawning Habitat	None. No accumulations of gravel and flows are non perennial; also substrates are to large for suitable spawning habitat
Rearing Habitat	None. No pools or resting areas, stream is extremely flashy in nature and has large angular substrates
OverWinter Habitat	None. No pools.

PHOTO DOCUMENTATION

Film	Compact Disc	Lens / Dir.	Comments
Roll 24 Fr 13 CD 2112 Im 247 STD U	Site 254, upstream view of high gradient section with small cascades (boulders).		
Roll 24 Fr 14 CD 2112 Im 248 STD D	Site 254, downstream view of dry cobble/boulder field, impassable to fish.		

WILDLIFE**COMMENTS**

Form	Section	Comments
SITE	CHANNEL	C1; S6
SITE	CHANNEL	C2; no salmonid habitats present, gradients >18%, no resting areas, numerous cascades throughout;
SITE	CHANNEL	Substrate size will create numerous cascades, combined with flashy nature would prevent access
SITE	CHANNEL	Numerous frost cracked rocks throughout channel



Photo #: 24 - 14
Site 254, downstream view of dry cobble/boulder field, impassable to fish.



Photo #: 24 - 13
Site 254, upstream view of high gradient section with small cascades (boulders).

Site/Reach Card

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

Reach 2.0
Site # 255

ILP # 1470
ILP Map # 93L.014

Project Name Morice River Fish Inventory - 1999

Project Code 1710

REACH ATTRIBUTES										Sample Type	B	
Length (km)	.20	Elevation (m): upstream	780	downstream	755	UTM (Zone/East/North/ method)						
Gradient (%)	12.5	Order	1	Magnitude	1	BGC Zone	SBS	9	606824	600370	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	Mixed C/D					Valley Flat	No valley flat on either bank			(C)ontinuous (D)iscontinuous ☒ N		

SITE									
Gazetted Name					Local Name Unnamed				
Survey Date	1999/09/17		Time	09:00		Agency: C151			
Crew	JH/EM		Access	H		MAP UTM (Zone/East/North/Method) 9 606748 6003650 GIS			
Site Length (m)	100		Method	HC		Fish Card	☐ Incomplete	☐	NID Map 93L.014 NID # 13125

CHANNEL										Average	Method(s)		
Channel Widths (m)	0.5	0.9	0.6	0.4	0.7	0.8			0.6	T			
Wetted Widths (m)									n/a				
Resid. Pool Depths (m)									n/a				
No Vis.Ch. ☐	Dewatered ☐	Gradients (%)					28.0	26.0	27.0	25.0	26.5	C, C	
Intermittent ☒	Tributaries ☐	Bankfull Depth (m)										n/a	

Stage ☐ Low ☐ Med. ☐ High	COVER -	Total	None	LWD	None	Dist.	
	SWD	LWD	Boulder	Cutbank	Deep Pool	Over Veg	Instream Veg
	None	None	None	None	None	None	None
Crown Closure 21-40%	LEFT BANK			RIGHT BANK			
	Shape V - shaped (steep sloping or vertical)			Shape V - shaped (steep sloping or vertical)			
	Riparian Veg. Mixed C/D			Riparian Veg. Mixed C/D			
	Riparian Stage Mature forest			Riparian Stage Mature forest			
Instream Vegetation ☐ None ☒ Moss ☐ Algae ☒ Vasc.	Texture	☐ Fines	☒ Gravel	☐ Cobble			
		☐ Boulder	☐ Rock	☐ Man Made			
	Texture	☐ Fines	☒ Gravel	☐ Cobble			
		☐ Boulder	☐ Rock	☐ Man Made			

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

MORPHOLOGY									
BED	Dominant Cobble				D95(cm) (only 5%larger)	15			
MATERIAL	Subdominant Gravels				D (cm) (moveable)	5			
Channel Pattern	Irregular, Wandering								
Coupling	Partially Coupled								
Confinement	Frequently 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

Reach 2.0
Site # 255

ILP # 1470
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	None. No fisheries habitat values present
Rearing Habitat	None. No fisheries habitat values present
OverWinter Habitat	None. No fisheries habitat values present

PHOTO DOCUMENTATION

Film	Compact Disc	Lens / Dir.	Comments
Roll 24 Fr 15 CD 2112 Im 249 STD U	Site 255, upstream photo of high gradient section.		
Roll 24 Fr 16 CD 2112 Im 250 STD D	Site 255, downstream view of high gradient section.		

WILDLIFE

COMMENTS

Form	Section	Comments
SITE	CHANNEL	C1; S6
SITE	CHANNEL	C2; non fish bearing based on high gradient and lack of fish habitat values.
SITE	CHANNEL	Evidence of channel, evidence of fluvial substate, but highly ephemeral, steep drainage channel only.



Photo #: 24 - 16
Site 255, downstream view of high gradient section.



Photo #: 24 - 15
Site 255, upstream photo of high gradient section.

Site/Reach Card

Watershed Code 460-600600-53900-00000-00000-000-000-000-000-000-000

Reach 1.0
Site # 256

Project Name Morice River Fish Inventory - 1999

Project Code 1710

REACH ATTRIBUTES									
Length (km)	2.01	Elevation (m): upstream	900	downstream	740	UTM (Zone/East/North/ method)	Sample Type B		
Gradient (%)	8.0	Order	2	Magnitude	4	BGC Zone	SBS	9	608517 6003670 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	Mixed C/D		Valley Flat		No valley flat on either bank		(C)ontinuous ☐ (D)iscontinuous ☒		

SITE									
Gazetted Name					Local Name	Unnamed			
Survey Date	1999/09/17	Time	10:20	Agency:	C151				
Crew	JH/EM	Access	H	MAP UTM (Zone/East/North/Method)	9	607594	6003772	GIS	
Site Length (m)	900	Method	GE	Fish Card	☒ Incomplete ☐	NID Map	93L.014	NID # 13126	

CHANNEL											
Channel Widths (m)	1.9	2.4	2.6	2.8	3.2	3.6	Average	Method(s)			
Wetted Widths (m)	1.6	1.9	1.3	1.2	1.5	1.4	2.7	T			
Resid. Pool Depths (m)	0.50	0.40	0.50	0.40	0.50	0.50	1.5	T			
							0.47	MS			
No Vis.Ch.	☐	Dewatered	☐	Gradients (%)		7.0	7.0	6.0	8.0	7.0	C, C
Intermittent	☐	Tributaries	☐	Bankfull Depth (m)		1.2	1.3	1.2		1.2	T

Stage	☒ Low	COVER -		Total	Moderate	LWD Few	Dist.	Clumped
	☐ Med.	SWD	LWD	Boulder	Cutbank	Deep Pool	Over Veg	Instream Veg
	☐ High	Trace	Trace	Dominant	None	Trace	Sub-Dominant	None
Crown Closure	21-40%	LEFT BANK			RIGHT BANK			
Instream Vegetation		Shape V - shaped (steep sloping or vertical)			Shape V - shaped (steep sloping or vertical)			
☐ None ☐ Moss		Riparian Veg. Shrubs			Riparian Veg. Shrubs			
☐ Algae ☐ Vasc.		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	9	Method	T3	pH	6.9	Method	P2	EMS #	
Conductivity	110	Method	S3	Turbidity	☐ Turbid ☐ Medium ☐ Light ☒ Clear	Method GE			

MORPHOLOGY									
BED	Dominant Cobble		D95(cm) (only 5% larger)		120				
MATERIAL	Subdominant Boulders		D (cm) (moveable)		40				
Channel Pattern	Irregular, Wandering		Morphology Code		CP				
Coupling	Partially Coupled		Bars		☒ None ☐ Mid ☐ Side ☐ Span ☐ Diag. ☐ Braid				
Confinement	Frequently Confined		Abandoned channels		☐ B1				
Islands	None		SWD		☐ D1				
			Extensive riffles		☐ C1				
			Homog. bed		☐ S1				

Site/Reach Card

Watershed Code 460-600600-53900-00000-0000-0000-000-000-000-000-000

Reach 1.0

Site # 256

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 20.0 Method GE Length 4 Method GE

Comments upper limit of fish distribution (20/4)

Photograph Roll 24 Frame 19 UTM (Zone/East/North/ Method) 9 607843 6003703 GIS

HABITAT QUALITY

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

Name	Comments
Spawning Habitat	Moderate; (~10%) moderate habitat values downstream of falls
Rearing Habitat	Moderate (~20%)
OverWinter Habitat	Moderate (~10%)

PHOTO DOCUMENTATION

Film	Compact Disc	Lens / Dir.	Comments
Roll 24 Fr 17 CD 2112 Im 251 STD U	Site 256, upstream view of typical gravel section with overhanging vegetation.		
Roll 24 Fr 18 CD 2112 Im 252 STD D	Site 256, downstream view of boulder/cobble section with large D95.		
Roll 24 Fr 19 CD 2112 Im 253 STD U	Site 256, upper limit of fish distribution.		

WILDLIFE

COMMENT

Form	Section	Comments
SITE	CHANNEL	c1; S3/S5
SITE	CHANNEL	c2; Fish bearing below falls, non fish bearing above
SITE	CHANNEL	CT captured in isolated pools
SITE	CHANNEL	heavy debris torrent, numerous cascades/ debris jams, stream hits toe of slope and dissipates into gravel.

FDIS Fish Form

Watershed Code 460-600600-53900-00000-0000-0000-000-000-000-000-000

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: 1999/09/17 To: 1999/09/17 Crew: JH/EM Resample ☐

Site	NID MAP	NID	UTM:Zone/East/North/	Mthd	MTD/NO	Temp	Cond	Turbid	Comment
256	93L.014	13126	9 607594 6003772	EF	1	9.0	110	C	

GEAR SETTINGS

Site	MTD/NO	H/P	Date In	Time In	Date Out	Time Out	Comment
256	EF 1	1	1999/09/17	10:20	1999/09/17	12:45	

NET/TRAP SPECIFICATIONS

ELECTROFISHER SPECIFICATIONS

Site	MTD/NO	H/P	Encl	Sec.	Length	Width	Volts	Hz	Pulse	Make	Model
256	EF 1	1	O	1220	900.0	2.5	600	60	6	SR	12-B

FISH SUMMARY

Site	MTD/NO	H/P	Species	Stage	Age	Total #	Lgth (Min/Max)	Activity	Comment
256	EF 1	1	CT	A	3+	7	80 120	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.	
256	EF 1	1	CT	115		U	U				24 20	
256	EF 1	1	CT	105		U	U					
256	EF 1	1	CT	80		U	U					
256	EF 1	1	CT	120		U	U					
256	EF 1	1	CT	85		U	U					
256	EF 1	1	CT	110		U	U					
256	EF 1	1	CT	95		U	U					

COMMENTS



Photo #: 24 - 18

Site 256, downstream view of boulder/cobble section with large D95.



Photo #: 24 - 20

Site 256, photo of a 115 mm cutthroat trout.



Photo #: 24 - 19
Site 256, upper limit of fish distribution.



Photo #: 24 - 17
Site 256, upstream view of typical gravel section with overhanging vegetation.

Site/Reach Card

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

Reach 2.0

Site # 257

ILP # 1136

ILP Map # 93L.015

Project Name Morice River Fish Inventory - 1999

Project Code 1710

REACH ATTRIBUTES									
Length (km)	.64	Elevation (m): upstrea	956	downstream	930	UTM (Zone/East/North/ method)	Sample Type B		
Gradient (%)	4.1	Order 1	Magnitude 1	BGC Zone	SBS	9	621554	599975	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	Confined		Exposed/Eroded		NONE		Width (m)		
Coupling	Decoupled		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				
Survey Date	1999/09/16	Time	13:30	Agency:	C151				
Crew	JH/EM	Access	H	MAP UTM (Zone/East/North/Method)	9	621265	6000156	GIS	
Site Length (m)	100	Method	HC	Fish Card	☐	Incomplete	☐	NID Map	93L.015
								NID #	13127

CHANNEL									
No Visible Channe ☒									
Gradient(s) (%)	4.0	4.0							
Vegetation									
Veg. Stage									

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

PHOTO DOCUMENTATION									
Film	Compact Disc	Lens / Dir.	Comments						
Roll	24	Fr	21	CD	2112	Im	255	STD	U
Site 257, upslope view of small depression within vegetated gully.									

COMMENT		
Form	Section	Comments
SITE	CHANNEL	C1; NVC
SITE	CHANNEL	C2; no visible channel, vegetated gully within cutblock seepage area.



Photo #: 24 - 21

Site 257, upslope view of small depression within vegetated gulley.

Site/Reach Card

Watershed Code 460-600600-36400-50200-0640-0000-000-000-000-000-000

Reach 5.0

Site # 258

Project Name Morice River Fish Inventory - 1999

Project Code 1710

REACH ATTRIBUTES									
Length (km)	1.20	Elevation (m): upstream	1035	downstream	924	UTM (Zone/East/North/ method)			
Gradient (%)	9.3	Order	2	Magnitude	2	BGC Zone	SBS	9	619796 6000612 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	Shrubs		Valley Flat		No valley flat on either bank		(C)ontinuous ☐ (D)iscontinuous ☒		

SITE									
Gazetted Name					Local Name	Unnamed			
Survey Date	1999/09/16	Time	13:50	Agency:	C151				
Crew	JH/EM	Access	H	MAP UTM (Zone/East/North/Method)	9	619767	6000479	GIS	
Site Length (m)	1200	Method	GIS	Fish Card	☒ Incomplete ☐	NID Map	93L.015	NID # 13128	

CHANNEL											
Channel Widths (m)	1.4	1.5	1.6	1.3	1.3	1.2	Average	Method(s)			
Wetted Widths (m)	0.9	0.8	0.8	0.9	0.9	0.8	1.4	T			
Resid. Pool Depths (m)	0.15	0.15	0.20	0.15	0.20	0.25	0.8	T			
							0.18	MS			
No Vis.Ch.	☐	Dewatered	☐	Gradients (%)		7.0	8.0	6.0	7.0	7.0	C, C
Intermittent	☐	Tributaries	☐	Bankfull Depth (m)		0.5	0.6	0.6	0.6	0.6	T

Stage	☒ Low	COVER -		Total	Moderate	LWD Few	Dist.	Clumped
	☐ Med.	SWD	LWD	Boulder	Cutbank	Deep Pool	Over Veg	Instream Veg
	☐ High	Trace	Trace	Dominant	Trace	Trace	Sub-Dominant	None
Crown Closure	21-40%	LEFT BANK			RIGHT BANK			
Instream Vegetation		Shape V - shaped (steep sloping or vertical)			Shape V - shaped (steep sloping or vertical)			
☐ None ☒ Moss		Riparian Veg. Shrubs			Riparian Veg. Shrubs			
☐ Algae ☒ Vasc.		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	8	Method	T3	pH	7.2	Method	P2	EMS #	
Conductivity	90	Method	S3	Turbidity	☐ Turbid ☐ Medium ☐ Light ☒ Clear	Method GE			

MORPHOLOGY									
BED	Dominant Boulders		D95(cm) (only 5%larger)		80				
MATERIAL	Subdominant Cobble		D (cm) (moveable)		30				
Channel Pattern	Irregular, Wandering		Morphology Code		CP				
Coupling	Partially Coupled		Bars		☐ None ☐ Mid ☒ Side ☐ Span ☐ Diag. ☐ Braid				
Confinement	Frequently Confined		Abandoned channels		☐ B1				
Islands	None		SWD		☐ D1				
			Extensive riffles		☐ C1				
			Homog. bed		☐ S1				

Site/Reach Card

Watershed Code 460-600600-36400-50200-0640-0000-000-000-000-000-000

Reach 5.0
Site # 258

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 ☒
		Trips ☒	Flood/Beaver ☒
			Flood Chan ☒
			Slough ☒

Name	Comments
Spawning Habitat	Poor (<5%). Patchy accumulations of gravel, riffle/runs with shallow run depths and angular gravels
Rearing Habitat	Moderate (15%). Small pools with adequate depth and cover for small salmonids
OverWinter Habitat	None. No deep pools present

PHOTO DOCUMENTATION									
Film	Compact Disc			Lens / Dir.		Comments			
Roll 24	Fr	22	CD 2112	1m	256 STD U	Site 258; upstream view of one of many small <1mm cascades (debris jam).			
Roll 24	Fr	23	CD 2112	1m	257 STD D	Site 258, downstream view of boulder strewn section of stream.			
Roll 24	Fr	24	CD 2112	1m	258 STD D	Site 258, downstream view of dry section of stream, downstream of canyon.			

WILDLIFE

COMMENT

Form	Section	Comments
SITE	CHANNEL	C1; S4
SITE	CHANNEL	C2; default S4, no barriers encountered within sample site.
SITE	CHANNEL	Possibly resample (reach 1) downstream of wetland.
SITE	CHANNEL	Highly angular substrates, numerous debris jams/cascades, no deep pools, several steep sections (26/20, 20/20, 28/30); stream becomes dry/intermittent in canyon

FDIS Fish Form

Watershed Code 460-600600-36400-50200-0640-0000-000-000-000-000-000

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:	1999/09/16	To:	1999/09/16
		Crew:	JH/EM		
		Resample	☐		
Site	NID MAP	NID	UTM:Zone/East/North/ Mthd	MTD/NO	Temp
		Cond	Turbid	Comment	
258	93L.015	13128	9 619767 6000479	EF 1	8.0
		90	C		
GEAR SETTINGS					
Site	MTD/NO	H/P	Date In	Time In	Date Out
			Time Out	Comment	
258	EF 1	1	1999/09/16	13:50	1999/09/16
			15:00		
NET/TRAP SPECIFICATIONS					
ELECTROFISHER SPECIFICATIONS					
Site	MTD/NO	H/P	Encl	Sec.	Length
			Width	Volts	Hz
			Pulse	Make	Model
258	EF 1	1	O	890	1200.0
			1.5	600	60
			6	SR	12-B
FISH SUMMARY					
Site	MTD/NO	H/P	Species	Stage	Age
			Total #	Lgth (Min/Max)	Activity
			Comment		
258	EF 1	1	NFC		0
INDIVIDUAL FISH DATA					
COMMENTS					



Photo #: 24 - 23
Site 258, downstream view of boulder strewn section of stream.



Photo #: 24 - 24
Site 258, downstream view of dry section of stream, downstream of canyon.



Photo #: 24 - 22

Site 258; upstream view of one of many small <1m cascades (debris jam).

Site/Reach Card

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

Reach 2.0

Site # 259

ILP # 1439

ILP Map # 93L.014

Project Name Morice River Fish Inventory - 1999

Project Code 1710

REACH ATTRIBUTES									
Length (km)	.70	Elevation (m): upstrea	1110	downstream	938	UTM (Zone/East/North/ method)	Sample Type ☒ B		
Gradient (%)	24.6	Order 1	Magnitude 1	BGC Zone	SBS	9	618772	600249	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	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	☐		
						(D)iscontinuous	☒ N		

SITE									
Gazetted Name					Local Name	Unnamed			
Survey Date	1999/09/16	Time	15:20	Agency:	C151				
Crew	JH/EM	Access	V2	MAP UTM (Zone/East/North/Method)	9	618322	6002855	GIS	
Site Length (m)	100	Method	HC	Fish Card	☐ Incomplete ☐	NID Map	93L.015	NID #	13129

CHANNEL									
No Visible Channe ☒									
Gradient(s) (%)	15.0	20.0							
Vegetation									
Veg. Stage									

FEATURE									
HABITAT QUALITY									
ESZs					Side Chan ☐ Flood/Beave ☐				
Tribes ☐					Flood Cha ☐ Slough ☐				

PHOTO DOCUMENTATION									
Film	Compact Disc		Lens / Dir. Comments						
Roll 25	Fr 1	CD 2112	Im 259	STD U	Site 259, upslope view of alder swale.				

COMMENT									
Form	Section	Comments							
SITE	CHANNEL	c1; NVC							
SITE	CHANNEL	c2; No visible channel							
SITE	SITE CARD	Seepage area with no evidence of scour/water/substrate deposits. Alder swale with Devil's club.							



Photo #: 25 - 1
Site 259, upslope view of alder swale.

Site/Reach Card

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

Reach 3.0
Site # 260

ILP # 1443
ILP Map # 93L.014

Project Name Morice River Fish Inventory - 1999

Project Code 1710

REACH ATTRIBUTES										Sample Type	R	
Length (km)	.95	Elevation (m): upstream	1102	downstream	1040	UTM (Zone/East/North/ method)						
Gradient (%)	6.5	Order	1	Magnitude	1	BGC Zone	SBS	9	618259	600053	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	Shrubs					Valley Flat	No valley flat on either bank			(C)ontinuous	☐ N	
									(D)iscontinuous			

SITE										
Gazetted Name	Local Name Unnamed									
Survey Date	1999/09/16	Time	15:50	Agency:	C151					
Crew	JH/EM	Access	H	MAP UTM (Zone/East/North/Method)	9	617846	6000998	GIS		
Site Length (m)	300	Method	GIS	Fish Card	☐ Incomplete	☐	NID Map	93L.015	NID #	13130

CHANNEL												
Channel Widths (m)	0.6	0.6	0.8	0.8	0.7	0.7	Average	0.7	Method(s)	T		
Wetted Widths (m)							n/a					
Resid. Pool Depths (m)							n/a					
No Vis.Ch.	☐	Dewatered	☐	Gradients (%)			4.0	5.0	5.0	6.0	5.0	C, C
Intermittent	☒	Tributaries	☐	Bankfull Depth (m)			0.3	0.4	0.4		0.4	T

Stage	☐ Low	COVER -		Total	None	LWD	Few	Dist.	Clumped
	☐ Med.	SWD	LWD	Boulder	Cutbank	Deep Pool	Over Veg	Instream Veg	
	☐ High	None	None	None	None	None	None	None	
Crown Closure	21-40%	LEFT BANK				RIGHT BANK			
Instream Vegetation		Shape V - shaped (steep sloping or vertical)				Shape V - shaped (steep sloping or vertical)			
		Riparian Veg. Shrubs				Riparian Veg. Shrubs			
		Riparian Stage Shrub/herb stage				Riparian Stage Shrub/herb stage			
☐ None	☐ Moss	Texture ☒ Fines ☐ Gravel ☐ Cobble				Texture ☒ Fines ☐ Gravel ☐ Cobble			
☐ Algae	☒ Vasc.	☐ Boulder ☐ Rock ☐ Man Made				☐ Boulder ☐ Rock ☐ Man Made			

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

MORPHOLOGY									
BED	Dominant	Fines	D95(cm) (only 5% larger)			1			
MATERIAL	Subdominant	Not Applicable (same as Dominant)	D (cm) (moveable)			0.5			
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

ILP # 1443

Site # 260

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 ☐Tribes ☐Flood Cha ☐Sloug ☐

Name	Comments
Spawning Habitat	None. No gravels, highly ephemeral, insufficient discharge, low velocity.
Rearing Habitat	None. Ephemeral flows, lack of channel development, low habitat complexity, shallow water depths, no significant pools.
OverWinter Habitat	None.

PHOTO DOCUMENTATION

Film	Compact Disc	Lens / Dir.	Comments
Roll 25 Fr 2 CD 2112 Im 260 STD U	Site 260, upstream view of isolated pool with vascular plants and fines.		
Roll 25 Fr 3 CD 2112 Im 261 STD D	Site 260, downstream view of isolated pool, with functioning LWD		

WILDLIFE**COMMENTS**

Form	Section	Comments
SITE	CHANNEL	C1; S4 classification
SITE	CHANNEL	C2;
SITE	CHANNEL	Recommend sample downstream;
SITE	CHANNEL	Predominance of fines and organic substrates, infrequent or no pools, no fish habitats present, no barriers encountered, small isolated pools lack connectivity between.



Photo #: 25 - 3

Site 260, downstream view of isolated pool, with functioning LWD



Photo #: 25 - 2

Site 260, upstream view of isolated pool with vascular plants and fines.

Site/Reach Card

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

Reach 9.0

ILP # 1180

Site # 261

ILP Map # 93L.015

Project Name Morice River Fish Inventory - 1999

Project Code 1710

REACH ATTRIBUTES										Sample Type	B	
Length (km)	.42	Elevation (m): upstream	1026	downstream	1009	UTM (Zone/East/North/ method)						
Gradient (%)	4.1	Order	1	Magnitude	1	BGC Zone	SBS	9	618600	599993	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	1999/09/16	Time	16:35	Agency:	C151					
Crew	JH/EM	Access	H	MAP UTM (Zone/East/North/Method)	9	618603	5999770	GIS		
Site Length (m)	300	Method	HC	Fish Card	☒ Incomplete	☐	NID Map	93L.015	NID #	13131

CHANNEL										
Channel Widths (m)	1.1	1.2	1.3	1.1	1.1	1.3	Average	1.2	Method(s)	T
Wetted Widths (m)	0.5	0.6	0.5	0.4	0.6	0.6		0.5		T
Resid. Pool Depths (m)	0.10	0.15	0.15	0.10	0.10	0.15		0.12		MS
No Vis.Ch.	☐	Dewatered	☐	Gradients (%)	4.0	3.0	2.0	3.0	3.0	C, C
Intermittent	☐	Tributaries	☐	Bankfull Depth (m)	0.5	0.6	0.5		0.5	T

Stage	☐ Low	☒ Med.	☐ High	COVER -	Total	Moderate	LWD Few	Dist.	Clumped	
				SWD	LWD	Boulder	Cutbank	Deep Pool	Over Veg	Instream Veg
				Trace	ub-Dominant	None	Trace	None	Dominant	Trace
Crown Closure	21-40%									
Instream Vegetation	LEFT BANK Shape V - shaped (steep sloping or vertical) Riparian Veg. Shrubs Riparian Stage Shrub/herb stage Texture ☒ Fines ☐ Gravel ☐ Cobble ☐ Boulder ☐ Rock ☐ Man Made RIGHT BANK Shape V - shaped (steep sloping or vertical) Riparian Veg. Shrubs Riparian Stage Shrub/herb stage Texture ☒ Fines ☐ Gravel ☐ Cobble ☐ Boulder ☐ Rock ☐ Man Made									

WATER										
Temperature	7	Methoc	T3	pH	6.8	Method	P2	EMS #		
Conductivity	60	Method	S3	Turbidity	☐ Turbid	☐ Medium	☐ Light	☒ Clear	Method	GE

MORPHOLOGY									
BED	Dominan Fines				D95(cm) (only 5%larger)	3			
MATERIAL	Subdominant Gravels				D (cm) (moveable)	1			
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

Reach 9.0

Site # 261

ILP # 1180

ILP Map # 93L.015

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	None. No significant accumulations of gravels, ephemeral and insufficient discharge volumes
Rearing Habitat	Ephemeral flows, limited channel development, low habitat complexity, shallow average water depths
OverWinter Habitat	None. Pools too shallow, ephemeral flows, low winter DO

PHOTO DOCUMENTATION

Film	Compact Disc	Lens / Dir.	Comments
Roll 25 Fr 4 CD 2112 Im 262 STD U	Site 261, upstream view of typical stagnant pool with vascularized vegetation.		
Roll 25 Fr 5 CD 2112 Im 263 STD D	Site 261, downstream view of typical stagnant pool with cobble /fine substrates.		

WILDLIFE

COMMENTS

Form	Section	Comments
SITE	CHANNEL	C1; S4
SITE	CHANNEL	C2; no significant barriers encountered, during heli flight downstream reaches looked as if they had been altered by several road crossings.
SITE	CHANNEL	Resample at downstream road crossing
SITE	CHANNEL	C6; FC# 024525

FDIS Fish Form

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

Reach # 9.0

ILP # 1180

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:	1999/09/16	To:	1999/09/16	Crew:	JH/EM	Resample	☐			
Site	NID MAP	NID	UTM:Zone/East/North/ Mthd		MTD/NO	Temp	Cond	Turbid	Comment			
261	93L.015	13131	9	618603	5999770	EF	1	7.0	60	C		
GEAR SETTINGS												
Site	MTD/NO	H/P	Date In	Time In	Date Out	Time Out	Comment					
261	EF	1	1	1999/09/16	16:35	1999/09/16	17:30					
NET/TRAP SPECIFICATIONS												
ELECTROFISHER SPECIFICATIONS												
Site	MTD/NO	H/P	Encl	Sec.	Length	Width	Volts	Hz	Pulse	Make	Model	
261	EF	1	1	O	420	300.0	1.0	600	60	6	SR	12-B
FISH SUMMARY												
Site	MTD/NO	H/P	Species	Stage	Age	Total #	Lgth (Min/Max)	Activity	Comment			
261	EF	1	1	NFC		0						
INDIVIDUAL FISH DATA												
COMMENTS												



Photo #: 25 - 5

Site 261, downstream view of typical stagnant pool with cobble /fine substrates.



Photo #: 25 - 4

Site 261, upstream view of typical stagnant pool with vascularized vegetation.

Site/Reach Card

Watershed Code 460-600600-36400-26300-0000-0000-000-000-000-000-000

Reach 3.0
Site # 264

Project Name Morice River Fish Inventory - 1999

Project Code 1710

REACH ATTRIBUTES										Sample Type	B	
Length (km)	1.40	Elevation (m): upstream	948	downstream	878	UTM (Zone/East/North/ method)						
Gradient (%)	5.0	Order	2	Magnitude	2	BGC Zone	SBS	9	625003	5998050	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	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 ☒ N		

SITE									
Gazetted Name					Local Name Unnamed				
Survey Date 1999/09/20		Time 08:30		Agency: C151					
Crew	EM/JA	Access	V2	MAP UTM (Zone/East/North/Method)		9	624709	5999098	GIS
Site Length (m)	600	Method	GE	Fish Card	☒ Incomplete ☐	NID Map	93L.015	NID #	13134

CHANNEL												
Channel Widths (m)	1.8	1.6	1.2	1.7	0.8	1.2	Average	1.4	Method(s)	T		
Wetted Widths (m)	0.6	0.5	0.7	0.4	0.3	1.0	0.6	T				
Resid. Pool Depths (m)	0.20	0.10	0.10	0.20	0.10	0.10	0.13	T				
No Vis.Ch.	☐	Dewatered	☐	Gradients (%)			8.0	7.0	7.0	8.0	7.5	C, C
Intermittent	☐	Tributaries	☐	Bankfull Depth (m)			0.9	1.0	0.7	0.9	T	

Stage	☒ Low	☐ Med.	☐ High	COVER -	Total	Moderate	LWD	None	Dist.	Not Applicable
				SWD	LWD	Boulder	Cutbank	Deep Pool	Over Veg	Instream Veg
				Trace	Dominant	Sub-Dominant	Trace	Trace	None	Trace
Crown Closure	1-20%									
Instream Vegetation	LEFT BANK Shape V - shaped (steep sloping or vertical) Riparian Veg. Mixed C/D Riparian Stage Shrub/herb stage Texture ☒ Fines ☐ Gravel ☐ Cobble ☐ Boulder ☐ Rock ☐ Man Made RIGHT BANK Shape V - shaped (steep sloping or vertical) Riparian Veg. Mixed C/D Riparian Stage Shrub/herb stage Texture ☒ Fines ☐ Gravel ☐ Cobble ☐ Boulder ☐ Rock ☐ Man Made									

WATER									
Temperature	7	Method	T3	pH	7.2	Method	P2	EMS #	
Conductivity	30	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)			4		
Channel Pattern	Irregular, Wandering								
Coupling	Coupled								
Confinement	Confined								
Islands	None								
Morphology Code RP									
Abandoned channels ☐ B1 SWD ☐ D1 Extensive riffles ☐ C1 Homog. bed ☐ S1									

Site/Reach Card

Watershed Code 460-600600-36400-26300-0000-0000-000-000-000-000-000

Reach 3.0

Site # 264

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 ☒
		Tribs. ☒	Flood/Beaver ☒
			Flood Chan ☒
			Slough ☒

Name	Comments
Spawning Habitat	5~10% of the area contains suitable spawning gravels.
Rearing Habitat	moderate, pools created by LWD and meander scour noted, some good holding areas with sufficient flow to permit migration.
OverWinter Habitat	no overwintering, no pools >20cm noted.

PHOTO DOCUMENTATION							
Film	Compact Disc	Lens / Dir.	Comments				
Roll 26 Fr 1 CD 2112 Im 282 STD U	Site 264, looking upstream at the channel, with vest on the left bank.						
Roll 26 Fr 2 CD 2112 Im 283 STD D	Site 264, looking downstream at the sampling area.						

WILDLIFE	
COMMENT	

Form	Section	Comments
SITE	CHANNEL	C1, S6
SITE	CHANNEL	C2, NFC, barrier downstream in reach 2.
SITE	CHANNEL	C5, organic substrate, gravel recruitment from ILP 1146.
SITE	SITE CARD	C6, FC # 008456.

Watershed Code 460-600600-36400-26300-0000-0000-000-000-000-000-000

ILP #

Project Name Morice River Fish Inventory - 1999

Project Code 1710

Lake / Stream / S			SITE / METHOD							Waterbody ID		
Permit	34770-20		Date: 1999/09/20		To: 1999/09/20		Crew: EM/JA		Resample ☐			
Site	NID	MAP	NID	UTM:Zone/East/North/ Mthd			MTD/NO	Temp	Cond	Turbid	Comment	
264	93L.015		13134	9	624709	5999098	EF	1	7.0	30	C	
GEAR SETTINGS												
Site	MTD/NO	H/P	Date In	Time In	Date Out	Time Out	Comment					
264	EF	1	1	1999/09/20	08:30	1999/09/20	09:20					
NET/TRAP SPECIFICATIONS												
ELECTROFISHER SPECIFICATIONS												
Site	MTD/NO	H/P	Encl	Sec.	Length	Width	Volts	Hz	Pulse	Make	Model	
264	EF	1	1	O	537	600.0	1.6	700	60	6	SR 12 B POW	
FISH SUMMARY												
Site	MTD/NO	H/P	Species	Stage	Age	Total #	Lgth (Min/Max)	Activity	Comment			
264	EF	1	1	NFC		0						
INDIVIDUAL FISH DATA												
COMMENTS												



Photo #: 26 - 2
Site 264, looking downstream at the sampling area.



Photo #: 26 - 1
Site 264, looking upstream at the channel, with vest on the left bank.

Site/Reach Card

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

Reach 1.0
Site # 265

ILP # 1146
ILP Map # 93L.015

Project Name Morice River Fish Inventory - 1999

Project Code 1710

REACH ATTRIBUTES										Sample Type	B	
Length (km)	.29	Elevation (m): upstream	970	downstream	907	UTM (Zone/East/North/ method)						
Gradient (%)	21.7	Order	1	Magnitude	1	BGC Zone	SBS	9	625077	599891	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	Straight				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	1999/09/20	Time	09:30	Agency:	C151					
Crew	EM/JA	Access	V2	MAP UTM (Zone/East/North/Method)	9	624884	5998913	GIS		
Site Length (m)	150	Method	HC	Fish Card	☒ Incomplete	☐	NID Map	93L.015	NID #	13135

CHANNEL										
Channel Widths (m)	1.1	0.9	0.8	1.0	0.7	0.9	Average	0.9	Method(s)	T
Wetted Widths (m)	0.4	0.3	0.4	0.3	0.2	0.3		0.3		T
Resid. Pool Depths (m)	0.10	0.10	0.10	0.10	0.10	0.10		0.10		T
No Vis.Ch.	☐	Dewatered	☐	Gradients (%)	15.0	15.0	16.0	14.0	15.0	C, C
Intermittent	☐	Tributaries	☐	Bankfull Depth (m)	0.4	0.5	0.3		0.4	T

Stage	☒ Low	COVER -	Total	Trace	LWD Few	Dist.	Clumped
	☐ Med.	SWD	LWD	Boulder	Cutbank	Deep Pool	Over Veg
	☐ High	ub-Dominant	Dominant	None	None	None	ub-Dominant
							Instream Veg
							None
Crown Closure	1-20%	LEFT BANK			RIGHT BANK		
		Shape Sloping (gradual or shallow sloping)			Shape Sloping (gradual or shallow sloping)		
		Riparian Veg. Mixed C/D			Riparian Veg. Mixed C/D		
		Riparian Stage Shrub/herb stage			Riparian Stage Shrub/herb stage		
Instream Vegetation		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	20	Method	S3	Turbidity	☐ Turbid	☐ Medium	☐ Light	☒ Clear	Method	GE

MORPHOLOGY									
BED	Dominant Gravels				D95(cm) (only 5% larger)	14			
MATERIAL	Subdominant Cobble				D (cm) (moveable)	3			
Channel Pattern	Sinuous								
Coupling	Decoupled								
Confinement	Occasionally Confined								
Islands	None								
		Morphology Code							
		CP							
		Bars							
		☐ None ☐ Mid							
		☒ Side ☐ Span							
		☐ Diag. ☐ Braid							

Site/Reach Card

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

Reach 1.0
Site # 265

ILP # 1146
ILP Map # 93L.015

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 X	Height	Method GE	Length	Method
Comments debris jam.				
Photograph	Roll	Frame	UTM (Zone/East/North/ Method)	9 624964 599890 GIS

HABITAT QUALITY

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

Name	Comments
Spawning Habitat	a few areas of suitable spawning noted, however hard packed gravel and cobble noted.
Rearing Habitat	few holding areas between pools, gradient combined with debris jams create migration barriers.
OverWinter Habitat	no pools of suitable depth noted.

PHOTO DOCUMENTATION

Film	Compact Disc	Lens / Dir.	Comments
Roll 25 Fr 22 CD 2112 Im 280 STD U			Site 265, looking upstream at the right bank.
Roll 25 Fr 23 CD 2112 Im 281 STD D			Site 265, looking downstream at a sediment wedge.

WILDLIFE

COMMENTS

Form	Section	Comments
SITE	CHANNEL	C1, S6.
SITE	CHANNEL	C2, NFC, d/s barrier.
SITE	CHANNEL	C5, small drainage logged over, LWD is slash in the creek, regeneration is not providing LWD at this point.
SITE	CHANNEL	C5, vegetated channel.
SITE	SITE CARD	C6, FC # 19869.

FDIS Fish Form

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

Reach # 1.0

ILP # 1146

ILP Map # 93L.015

Project Name Morice River Fish Inventory - 1999

Project Code 1710

Lake/Stream		S		SITE/METHOD				Waterbody ID			
Permit	34770-20	Date:	1999/09/20	To:	1999/09/20	Crew:	EM/JA	Resample ☐			
Site	NID MAP	NID	UTM:Zone/East/North/ Mthd		MTD/NO	Temp	Cond	Turbid	Comment		
265	93L.015	13135	9	624884 5998913	EF 1	9.0	20	C			
GEAR SETTINGS											
Site	MTD/NO	H/P	Date In	Time In	Date Out	Time Out	Comment				
265	EF 1	1	1999/09/20	09:30	1999/09/20	10:15					
NET/TRAP SPECIFICATIONS											
ELECTROFISHER SPECIFICATIONS											
Site	MTD/NO	H/P	Encl	Sec.	Length	Width	Volts	Hz	Pulse	Make	Model
265	EF 1	1	O	127	120.0	0.4	700	60	0.4-8	SR	12-B
FISH SUMMARY											
Site	MTD/NO	H/P	Species	Stage	Age	Total #	Lgth (Min/Max)	Activity	Comment		
265	EF	1	1	NFC		0					
INDIVIDUAL FISH DATA											
COMMENTS											



Photo #: 25 - 23
Site 265, looking downstream at a sediment wedge.



Photo #: 25 - 22
Site 265, looking upstream at the right bank.

Site/Reach Card

Watershed Code 460-600600-36400-26300-0000-0000-000-000-000-000-000

Reach 2.0

Site # 266

Project Name Morice River Fish Inventory - 1999

Project Code 1710

REACH ATTRIBUTES									
Length (km)	1.48	Elevation (m): upstream	878	downstream	752	UTM (Zone/East/North/ method)			
Gradient (%)	8.5	Order	2	Magnitude	5	BGC Zone	SBS	9	624627 5999289 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	Irregular, Wandering		Landuse		None/natural		LWD jam(s)		☐
Riparian Vegetation			Valley Flat		No valley flat on either bank		(C)ontinuous		☒ N
								(D)iscontinuous	

SITE									
Gazetted Name					Local Name	Unnamed			
Survey Date	1999/09/20	Time	11:00	Agency:	C151				
Crew	EM/JA	Access	V2	MAP UTM (Zone/East/North/Method)	9	624307	5999373	GIS	
Site Length (m)	600	Method	NS	Fish Card	☒ Incomplete	☐	NID Map	93L.015	NID # 13136

CHANNEL											
Channel Widths (m)	3.7	4.5	2.9	3.1	3.6	2.4	Average	Method(s)			
Wetted Widths (m)	1.0	2.2	1.9	2.4	1.3	1.7	3.4	T			
Resid. Pool Depths (m)	0.40	0.30	0.50	0.20	0.30	0.40	1.7	T			
							0.35	T			
No Vis.Ch.	☐	Dewatered	☐	Gradients (%)		8.0	9.0	7.0	8.0	8.0	C, C
Intermittent	☐	Tributaries	☐	Bankfull Depth (m)		0.3	0.4	0.2	0.3	T	

Stage	☒ Low	COVER -		Total	Moderate	LWD	Few	Dist.	Evenly Distributed	
	☐ Med.	SWD	LWD	Boulder	Cutbank	Deep Pool	Over Veg	Instream Veg		
	☐ High	Trace	Sub-Dominant	Sub-Dominant	Trace	Dominant	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)				
☐ None ☒ Moss		Riparian Veg. Mixed C/D				Riparian Veg. Mixed C/D				
☐ 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	7	Method	T3	pH	7.2	Method	P2	EMS #	
Conductivity	30	Method	S3	Turbidity	☐ Turbid ☐ Medium ☐ Light ☒ Clear	Method GE			

MORPHOLOGY									
BED	Dominant Cobble		D95(cm) (only 5% larger)		60				
MATERIAL	Subdominant Gravels		D (cm) (moveable)		4				
Channel Pattern	Sinuous		Morphology Code		SP		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 460-600600-36400-26300-0000-0000-000-000-000-000-000

Reach 2.0

Site # 266

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 T	Length 1	Method T			
Comments barrier to fish migration.							
Photograph	Roll 26	Frame 7	UTM (Zone/East/North/ Method)	9	624392	5999357	GIS

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

Name	Comments
Spawning Habitat	accumulationsof spawning sized gravels noted.
Rearing Habitat	moderate habitat, good pool and LWD cover noted.
OverWinter Habitat	pools to 40cm deep were found.

PHOTO DOCUMENTATION									
Film		Compact Disc			Lens / Dir.		Comments		
Roll 26	Fr 3	CD 2112	Im 284	STD U	Site 266, looking upstream at the channel, noted the devil's club.				
Roll 26	Fr 4	CD 2112	Im 285	STD D	Site 266, looking downstream at the sampling area.				
Roll 26	Fr 6	CD 2112	Im 287	STD U	Site 266, looking upstream at a cascade barrier.				
Roll 26	Fr 7	CD 2112	Im 288	STD U	Site 266, looking upstream at a 2.0m cascade in the sampling area.				

WILDLIFE

COMMENT

Form	Section	Comments
SITE	CHANNEL	C1, S3/S6
SITE	CHANNEL	C2, d/s of 80cm cascade DV captured, NFC above barrier despite shocking effort. no overwintering noted.
SITE	CHANNEL	C5, d/s of cascade over bedrock DV captured.
SITE	SITE CARD	C6, FC # 7175.

FDIS Fish Form

Watershed Code 460-600600-36400-26300-0000-0000-000-000-000-000-000

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:	1999/09/20	To:	1999/09/20	Crew:	EM/JA
Resample							

Site	NID MAP	NID	UTM:Zone/East/North/ Mthd			MTD/NO	Temp	Cond	Turbid	Comment
266	93L.015	13136	9	624307	5999373	EF 1	7.0	30	C	

GEAR SETTINGS							
Site	MTD/NO	H/P	Date In	Time In	Date Out	Time Out	Comment
266	EF	1	1	1999/09/20	11:00	1999/09/20	12:15

NET/TRAP SPECIFICATIONS												
ELECTROFISHER SPECIFICATIONS												
Site	MTD/NO	H/P	Encl	Sec.	Length	Width	Volts	Hz	Pulse	Make	Model	
266	EF	1	1	O	437	600.0	1.8	700	60	0.4-8	SR	12 B POW

FISH SUMMARY											
Site	MTD/NO	H/P	Species	Stage	Age	Total #	Lgth (Min/Max)	Activity	Comment		
266	EF	1	1	DV	J	1	101	101	R		

INDIVIDUAL FISH DATA													
		Length		Weight	Age			Genetic		Photograph			
Site	MTD/NO	H/P	Species	(mm)	(g)	Sex	Mat	Str / Smpl# / Age	Vch#	Str/ Smpl#	Roll	Fr.	Comment
266	EF	1	1	DV	101		U	U			26	5	

COMMENTS													
----------	--	--	--	--	--	--	--	--	--	--	--	--	--



Photo #: 26 - 4
Site 266, looking downstream at the sampling area.



Photo #: 26 - 7
Site 266, looking upstream at a 2.0m cascade in the sampling area.



Photo #: 26 - 6
Site 266, looking upstream at a cascade barrier.



Photo #: 26 - 3
Site 266, looking upstream at the channel, noted the devil's club.



Photo #: 26 - 5
Site 266, photo of a 101 mm dolly varden.

Site/Reach Card

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

Reach 1.0
Site # 267

ILP # 1147
ILP Map # 93L.015

Project Name Morice River Fish Inventory - 1999

Project Code 1710

REACH ATTRIBUTES										Sample Type	B		
Length (km)	.40	Elevation (m): upstream	940	downstream	875	UTM (Zone/East/North/ method)							
Gradient (%)	16.3	Order	1	Magnitude	1	BGC Zone	SBS	9	625045	599931	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	☐
										(D)iscontinuous	☒ N		

SITE										
Gazetted Name	Local Name Unnamed									
Survey Date	1999/09/20	Time	13:00	Agency:	C151					
Crew	EM/JA	Access	V2	MAP UTM (Zone/East/North/Method)	9	624905	5999299	GIS		
Site Length (m)	200	Method	GE	Fish Card	☒ Incomplete	☐	NID Map	93L.015	NID # 13137	

CHANNEL										
Channel Widths (m)	1.7	1.9	1.3	1.1	1.3	1.4	Average	1.4	Method(s)	T
Wetted Widths (m)	0.3	0.2	0.4	0.3	0.1	0.3		0.3		T
Resid. Pool Depths (m)	0.10	0.10	0.10	0.20	0.10	0.20		0.13		T
No Vis.Ch.	☐	Dewatered	☐	Gradients (%)	20.0	25.0	20.0	22.0	21.7	C, C
Intermittent	☐	Tributaries	☐	Bankfull Depth (m)	0.5	0.3	0.2		0.3	T

Stage	☒ Low	COVER -	Total	Trace	LWD Few	Dist.	Evenly Distributed
	☐ Med.	SWD	LWD	Boulder	Cutbank	Deep Pool	Over Veg
	☐ High	Trace	ub-Dominant	Dominant	None	ub-Dominant	ub-Dominant
							Trace
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. Mixed C/D			Riparian Veg. Mixed C/D		
		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	7	Methoc	T3	pH	7.2	Method	P2	EMS #	
Conductivity	30	Method	S3	Turbidity	☐ Turbid	☐ Medium	☐ Light	☒ Clear	Method GE

MORPHOLOGY									
BED	Dominant Boulders			D95(cm) (only 5%larger)	47				
MATERIAL	Subdominant Cobble			D (cm) (moveable)	6				
Channel Pattern	Sinuous								
Coupling	Coupled								
Confinement	Entrenched								
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

Site # 267

ILP # 1147

ILP Map # 93L.015

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	some gravel accumulations present, <1%.
Rearing Habitat	gradient prevents fish from accessing this reach, connectivity between pools poor.

PHOTO DOCUMENTATION

Film	Compact Disc	Lens / Dir.	Comments
Roll 26 Fr 8	CD 2112 Im 289	STD D	Site 267, looking downstream at the channel and 20% gradient.
Roll 26 Fr 9	CD 2112 Im 290	STD U	Site 267, looking upstream at the channel and alders.

WILDLIFE

COMMENTS

Form	Section	Comments
SITE	CHANNEL	C1, S6
SITE	CHANNEL	C2, d/s barrier, NFC, no overwintering habitat.
SITE	CHANNEL	C6, Fc # 7173.

FDIS Fish Form

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

Reach # 1.0

ILP # 1147

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: 1999/09/20 To: 1999/09/20 Crew: EM/JA Resample ☐

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

267 93L.015 13137 9 624905 5999299 EF 1 7.0 30 C

GEAR SETTINGS

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

267 EF 1 1 1999/09/20 13:00 1999/09/20 14:10

NET/TRAP SPECIFICATIONS

ELECTROFISHER SPECIFICATIONS

Site MTD/NO H/P Encl Sec. Length Width Volts Hz Pulse Make Model
267 EF 1 1 O 189 200.0 0.3 700 60 0.4-8 SR 12 B POW

FISH SUMMARY

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

267 EF 1 1 NFC 0

INDIVIDUAL FISH DATA

COMMENTS



Photo #: 26 - 9
Site 267, looking upstream at the channel and alders.



Photo #: 26 - 8
Site 267, looking downstream at the channel and 20% gradient.

Site/Reach Card

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

Reach 2.0
Site # 268

ILP # 1446
ILP Map # 93L.015

Project Name Morice River Fish Inventory - 1999

Project Code 1710

REACH ATTRIBUTES										Sample Type	N	
Length (km)	.68	Elevation (m): upstream	1080	downstream	900	UTM (Zone/East/North/ method)						
Gradient (%)	26.5	Order	1	Magnitude	1	BGC Zone	SBS	9	615391	600151	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	Confined					Exposed/Eroded	Unknown, Not visible			Width (m)		
Coupling	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	1999/09/21	Time	09:00	Agency:	C151					
Crew	EM/JA	Access	V2	MAP UTM (Zone/East/North/Method)	9	615802	6001518	GIS		
Site Length (m)	150	Method	GE	Fish Card	☐ Incomplete ☐	NID Map	93L.014	NID #	13138	

CHANNEL										
Channel Widths (m)	0.4	0.6	0.5	1.0	0.9	0.6	Average	Method(s)		
Wetted Widths (m)							0.7	T		
Resid. Pool Depths (m)							n/a			
No Vis.Ch.	☐	Dewatered	☐	Gradients (%)	37.0	40.0	38.0	39.0	38.5	C, C
Intermittent	☒	Tributaries	☐	Bankfull Depth (m)	0.2	0.3	0.2		0.2	T

Stage	☒ Low ☐ Med. ☐ High	COVER -	Total	None	LWD	None	Dist.	Not Applicable	
		SWD	LWD	Boulder	Cutbank	Deep Pool	Over Veg	Instream Veg	
		None	None	None	None	None	None	None	
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. Mixed C/D				Riparian Veg. Mixed C/D			
☐ 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	Method	pH	Method	EMS #					
Conductivity	Method	Turbidity	☐ Turbid ☐ Medium ☐ Light ☐ Clear	Method					

MORPHOLOGY									
BED	Dominant Cobble				D95(cm) (only 5%larger)	26			
MATERIAL	Subdominant Gravels				D (cm) (moveable)	1			
Channel Pattern	Irregular, Wandering								
Coupling	Coupled								
Confinement	Confined								
Islands	None								
Morphology Code					Bars ☒ None ☐ Mid ☐ Side ☐ Span ☐ Diag. ☐ Braid				
CP									

Site/Reach Card

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

Reach 2.0
Site # 268

ILP # 1446
ILP Map # 93L.015

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	Not suited to salmonids, 38% gradient within sample site.
Rearing Habitat	Too steep to accomodate rearing, isolated pools but, generally dry channel within sampling area.

PHOTO DOCUMENTATION

WILDLIFE

COMMENTS

Form	Section	Comments
SITE	SITE CARD	C1, S6 classification.
SITE	SITE CARD	C2, 38% gradient noted.
SITE	SITE CARD	C5, ephemeral stream with vegetated channel. No fish sampling carried out, flows too low at time of survey.



Photo #: 26 - 20
Site 268, looking downstream at the sampling area.



Photo #: 26 - 19
Site 268, looking upstream at notebook on the left bank.

Site/Reach Card

Watershed Code 460-600600-41800-41700-0000-0000-000-000-000-000-000

Reach 2.0
Site # 269

Project Name Morice River Fish Inventory - 1999

Project Code 1710

REACH ATTRIBUTES										Sample Type	B	
Length (km)	.87	Elevation (m): upstream	1100	downstream	900	UTM (Zone/East/North/ method)						
Gradient (%)	23.0	Order	1	Magnitude	1	BGC Zone	SBS	9	615523	6002437	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	Entrenched				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	1999/09/21	Time	10:15	Agency:	C151					
Crew	EM/JA	Access	V2	MAP UTM (Zone/East/North/Method)	9	615908	6002095	GIS		
Site Length (m)	230	Method	GE	Fish Card	☐ Incomplete	☐	NID Map	93L.014	NID #	13139

CHANNEL													
Channel Widths (m)	2.2	2.1	1.7	1.4	2.0	1.8	Average	1.9	Method(s)	T			
Wetted Widths (m)	0.4	0.3	0.1	0.5	0.3	0.2		0.3		T			
Resid. Pool Depths (m)	0.10	0.05	0.10	0.10	0.10	0.10		0.09		MS			
No Vis.Ch.	☐	Dewatered	☐	Gradients (%)				35.0	32.0	30.0	31.0	32.0	C, C
Intermittent	☐	Tributaries	☐	Bankfull Depth (m)				0.6	0.5	0.8		0.6	MS

Stage	☒ Low	☐ Med.	☐ High	COVER -	Total	None	LWD	None	Dist.	Not Applicable
				SWD	LWD	Boulder	Cutbank	Deep Pool	Over Veg	Instream Veg
				None	None	None	None	None	None	None
Crown Closure	1-20%									
Instream Vegetation	LEFT BANK Shape V - shaped (steep sloping or vertical) Riparian Veg. Mixed C/D Riparian Stage Mature forest Texture ☒ Fines ☐ Gravel ☐ Cobble ☐ Boulder ☐ Rock ☐ Man Made RIGHT BANK Shape V - shaped (steep sloping or vertical) Riparian Veg. Mixed C/D Riparian Stage Mature forest Texture ☒ Fines ☐ Gravel ☐ Cobble ☐ Boulder ☐ Rock ☐ Man Made									

WATER										
Temperature	7	Method	T3	pH	6.9	Method	P2	EMS #		
Conductivity	40	Method	S3	Turbidity	☐ Turbid	☐ Medium	☐ Light	☒ Clear	Method	GE

MORPHOLOGY									
BED	Dominant Cobble				D95(cm) (only 5% larger)	50			
MATERIAL	Subdominant Boulders				D (cm) (moveable)	8			
Channel Pattern	Sinuous				Morphology Code	CP			
Coupling	Coupled				Bars	☒ None ☐ Mid			
Confinement	Entrenched					☐ Side ☐ Span			
Islands	None					☐ Diag. ☐ Braid			
Abandoned channels	☐ B1	SWD	☐ D1	Extensive riffles	☐ C1	Homog. bed	☐ S1		

Site/Reach Card

Watershed Code 460-600600-41800-41700-0000-0000-000-000-000-000-000

Reach 2.0
Site # 269

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 ☒
		Trips ☒	Flood/Beaver ☒
			Flood Chan ☒
			Slough ☒

Name	Comments
Spawning Habitat	spawning habitat present.
Rearing Habitat	too steep for rearing, no access between pools, channel is dry.
OverWinter Habitat	no pools are suitable for overwintering in this reach.

PHOTO DOCUMENTATION							
Film	Compact Disc	Lens / Dir.	Comments				
Roll 26	Fr 21 CD 2112	Im 302 STD U	Site 269, looking upstream at the sampling area.				
Roll 26	Fr 22 CD 2112	Im 303 STD D	Site 269, looking downstream at LWD and devil's club in the channel.				

WILDLIFE	
COMMENT	

Form	Section	Comments
SITE	CHANNEL	C1, S6
SITE	CHANNEL	C2, 32% slope, intermittent channel, not accessible to fish.
SITE	CHANNEL	C5, moss covered boulders noted in the channel.



Photo #: 26 - 22

Site 269, looking downstream at LWD and devil's club in the channel.



Photo #: 26 - 21

Site 269, looking upstream at the sampling area.

Site/Reach Card

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

Reach 1.0
Site # 270

ILP # 1150
ILP Map # 93L.015

Project Name Morice River Fish Inventory - 1999

Project Code 1710

REACH ATTRIBUTES										Sample Type	R	
Length (km)	.85	Elevation (m): upstream	847	downstream	723	UTM (Zone/East/North/ method)						
Gradient (%)	14.6	Order	1	Magnitude	1	BGC Zone	SBS	9	624643	600120	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	Mixed C/D			Valley Flat	No valley flat on either bank			(C)ontinuous	☐			
								(D)iscontinuous	☒ N			

SITE										
Gazetted Name	Local Name Unnamed									
Survey Date	1999/09/21	Time	11:30	Agency:	C151					
Crew	EM/JA	Access	V2	MAP UTM (Zone/East/North/Method)	9	624021	6001638	GIS		
Site Length (m)	300	Method	NS	Fish Card	☒ Incomplete	☐	NID Map	93L.015	NID #	13140

CHANNEL										
Channel Widths (m)	0.8	0.9	1.0	0.7	0.8	1.3	Average	0.9	Method(s)	T
Wetted Widths (m)	0.3	0.4	0.7	0.6	0.4	0.5		0.5		T
Resid. Pool Depths (m)	0.10	0.20	0.40	0.20	0.10	0.10		0.18		T
No Vis.Ch.	☐	Dewatered	☐	Gradients (%)	20.0	20.0	19.0	22.0	20.2	C, C
Intermittent	☐	Tributaries	☐	Bankfull Depth (m)	0.3	0.4	0.3		0.3	T

Stage	☒ Low	COVER -	Total	Trace	LWD	None	Dist.	Not Applicable	
	☐ Med.	SWD	LWD	Boulder	Cutbank	Deep Pool	Over Veg	Instream Veg	
	☐ High	ub-Dominant	ub-Dominant	Trace	None	Dominant	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)				
☒ None	☐ Moss	Riparian Veg. Mixed C/D			Riparian Veg. Mixed C/D				
☐ 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	8	Methoc	T3	pH	7.2	Method	P2	EMS #		
Conductivity	30	Method	S3	Turbidity	☐ Turbid	☐ Medium	☐ Light	☒ Clear	Method	GE

MORPHOLOGY									
BED	Dominant Gravels			D95(cm) (only 5% larger)	27				
MATERIAL	Subdominant Cobble			D (cm) (moveable)	3				
Channel Pattern	Irregular, Wandering								
Coupling	Coupled								
Confinement	Confined								
Islands	None								
Morphology Code				CP					
Bars				☐ None ☒ Mid					
				☐ Side ☐ Span					
				☐ Diag. ☐ Braid					

Site/Reach Card

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

Reach 1.0
Site # 270

ILP # 1150
ILP Map # 93L.015

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	Accumultaions of spawning gravels noted in the bottom 20m of the reach.
Rearing Habitat	Bottom 30m of the creek may be used as off channel habitat during high flow events in Lamprey C
OverWinter Habitat	No suitable overwintering pools were observed.

PHOTO DOCUMENTATION

Film	Compact Disc	Lens / Dir.	Comments
Roll 26 Fr 23 CD 2112 Im 304 STD D			Site 270, looking downstream at the channel, note the cobble substrate.
Roll 26 Fr 24 CD 2112 Im 305 STD U			Site 270, looking upstream at the sampling area.

WILDLIFE

COMMENTS

Form	Section	Comments
SITE	CHANNEL	C1, S4/S6
SITE	CHANNEL	C2, S4 from the confluence with Lamprey Cr to 50m upstream.
SITE	CHANNEL	C5, the channel is dry in the bottom 20-30m, upstream of the road, abundant debris noted, no pool connectivity observed.
SITE	SITE CARD	C6, FC # 24509.

FDIS Fish Form

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

Reach # 1.0

ILP # 1150

ILP Map # 93L.015

Project Name Morice River Fish Inventory - 1999

Project Code 1710

Lake/Stream	S	SITE/METHOD				Waterbody ID			
Permit	34770-20	Date:	1999/09/21	To:	1999/09/21	Crew:	EM/JA	Resample	☐

Site	NID MAP	NID	UTM:Zone/East/North/	Mthd	MTD/NO	Temp	Cond	Turbid	Comment	
270	93L.015	13140	9	624021	6001638	EF	1	8.0	30	C

GEAR SETTINGS							
Site	MTD/NO	H/P	Date In	Time In	Date Out	Time Out	Comment
270	EF	1	1	1999/09/21	11:30	1999/09/21	12:10

NET/TRAP SPECIFICATIONS												
ELECTROFISHER SPECIFICATIONS												
Site	MTD/NO	H/P	Encl	Sec.	Length	Width	Volts	Hz	Pulse	Make	Model	
270	EF	1	1	O	183	200.0	0.5	700	60	0.4-8	SR	12 B POW

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

INDIVIDUAL FISH DATA									
COMMENTS									



Photo #: 26 - 23
Site 270, looking downstream at the channel, note the cobble substrate.



Photo #: 26 - 24
Site 270, looking upstream at the sampling area.

Site/Reach Card

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

Reach 2.0
Site # 271

ILP # 1158
ILP Map # 93L.015

Project Name Morice River Fish Inventory - 1999

Project Code 1710

REACH ATTRIBUTES										Sample Type	B		
Length (km)	.81	Elevation (m): upstream	860	downstream	727	UTM (Zone/East/North/ method)							
Gradient (%)	16.4	Order	1	Magnitude	1	BGC Zone	SBS	9	623665	600334	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	Confined					Exposed/Eroded	NONE					Width (m)	
Coupling	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			

SITE									
Gazetted Name	Local Name Unnamed								
Survey Date	1999/09/21	Time	12:40	Agency:	C151				
Crew	EM/JA	Access	V2	MAP UTM (Zone/East/North/Method)	9	624201	6002839	GIS	
Site Length (m)	200	Method	GE	Fish Card	☐	Incomplete	☐	NID Map	93L.015
								NID #	13141

CHANNEL													
Channel Widths (m)	0.6	0.7	0.7	0.8	0.6	0.5	Average	0.6	Method(s)	T			
Wetted Widths (m)	0.1	0.3	0.4	0.2	0.3	0.4		0.3		T			
Resid. Pool Depths (m)	0.10	0.10	0.10	0.10	0.10	0.10		0.10		T			
No Vis.Ch.	☐	Dewatered	☐	Gradients (%)				20.0	33.0	27.0	25.0	26.2	C, C
Intermittent	☐	Tributaries	☐	Bankfull Depth (m)				0.5	0.4	0.4		0.4	T

Stage	☒ Low	COVER - Total None LWD Few Dist. Evenly Distributed									
	☐ Med.	SWD	LWD	Boulder	Cutbank	Deep Pool	Over Veg	Instream Veg			
	☐ High	None	None	None	None	None	None	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. Mixed C/D					Riparian Veg. Mixed C/D				
		Riparian Stage Pole-sapling stage					Riparian Stage Pole-sapling stage				
☐ None	☒ Moss	Texture ☒ Fines ☐ Gravel ☐ Cobble					Texture ☒ Fines ☐ Gravel ☐ Cobble				
☐ Algae	☐ Vasc.	☐ Boulder ☐ Rock ☐ Man Made					☐ Boulder ☐ Rock ☐ Man Made				

WATER										
Temperature	7	Methoc	T3	pH	7.2	Method	P2	EMS #		
Conductivity	30	Method	S3	Turbidity	☐ Turbid	☐ Medium	☐ Light	☒ Clear	Method	GE

MORPHOLOGY									
BED	Dominan Gravels					D95(cm) (only 5%larger)	36		
MATERIAL	Subdominant Cobble					D (cm) (moveable)	4		
Channel Pattern	Sinuous								
Coupling	Coupled								
Confinement	Confined								
Islands	None								
					Morphology Code				
					CP				
					Bars				
					☒ None	☐ Mid			
					☐ Side	☐ Span			
					☐ Diag.	☐ Braid			

Site/Reach Card

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

Reach 2.0

ILP # 1158

Site # 271

ILP Map # 93L.015

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 suitable spawning habitat due to morphological characteristics of the channel.
Rearing Habitat	channel is too small and too steep to accomodate holding fish, no connectivity between pools and 20-40cm cascades noted.
OverWinter Habitat	no overwintering pools

PHOTO DOCUMENTATION

Film	Compact Disc	Lens / Dir.	Comments
Roll 27 Fr 1 CD 2112 Im 306 STD D	Site 271, looking downstream at a small channel.		
Roll 27 Fr 2 CD 2112 Im 307 STD U	Site 271, looking upstream at a small channel.		

WILDLIFE

COMMENTS

Form	Section	Comments
SITE	CHANNEL	C1, S4/S6. S4 based on the accessibility of the lower end of the reach ONLY.
SITE	CHANNEL	C2, S4 for 20.0m, upstream of the confluence with Lamprey Cr.
SITE	CHANNEL	C5, steep, small channel lacking rearing cover and connectivity.



Photo #: 27 - 1
Site 271, looking downstream at a small channel.



Photo #: 27 - 2
Site 271, looking upstream at a small channel.

Site/Reach Card

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

Reach 1.0

Site # 272

ILP # 1443

ILP Map # 93L.014

Project Name Morice River Fish Inventory - 1999

Project Code 1710

REACH ATTRIBUTES

Sample Type B

Length (km) .64 Elevation (m): upstream 920 downstream 874 UTM (Zone/East/North/ method)
 Gradient (%) 7.2 Order 1 Magnitude 1 BGC Zone SBS 9 617031 600147 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 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 1999/09/21 Time 13:20 Agency: C151
 Crew EM/JA Access V2 MAP UTM (Zone/East/North/Method) 9 616797 6001555 GIS
 Site Length (m) 250 Method GE Fish Card ☐ Incomplete ☐ NID Map 93L.014 NID # 13142

CHANNEL

							Average	Method(s)
Channel Widths (m)	1.4	1.0	1.3	1.0	1.2	1.5	1.2	T
Wetted Widths (m)	0.5	0.4	0.4				0.5	T
Resid. Pool Depths (m)	0.10	0.10	0.20				0.13	T

No Vis.Ch. ☐	Dewatered ☐	Gradients (%)	6.0	7.0	7.0	6.0	6.5	C, C
Intermittent ☒	Tributaries ☐	Bankfull Depth (m)	0.3	0.3	0.4		0.3	T

Stage ☒ Low
☐ Med.
☐ High

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

Crown Closure
 21-40%

Instream Vegetation

☐ None ☒ Moss
☐ Algae ☒ Vasc.

LEFT BANK

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

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

RIGHT BANK

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

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

WATER

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

MORPHOLOGY

BED Dominant Fines D95(cm) (only 5% larger) 7
 MATERIAL Subdominant Gravels D (cm) (moveable) 2

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

Morphology Code

SP

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 # 1443

Site # 272

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
Rearing Habitat	Dry channel with no observed rearing cover.
Spawning Habitat	No spawning gravels noted.
OverWinter Habitat	No overwintering pools noted.

PHOTO DOCUMENTATION

Film	Compact Disc	Lens / Dir.	Comments
Roll 27 Fr 3 CD 2112 Im 308 STD D	Site 272, looking downstream at a stretch of fine substrate and devil's club riparian cover.		
Roll 27 Fr 4 CD 2112 Im 309 STD U	Site 272, looking downstream at a stretch of fine substrate and devil's club riparian cover.		

WILDLIFE

COMMENTS

Form	Section	Comments
SITE	CHANNEL	C1, S4
SITE	CHANNEL	C5, poorly defined channel, evidence of low energy/volume, seasonal discharge only.



Photo #: 27 - 3

Site 272, looking downstream at a stretch of fine substrate and devil's club riparian cover.



Photo #: 27 - 4

Site 272, looking downstream at a stretch of fine substrate and devil's club riparian cover.

Site/Reach Card

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

Reach 1.0

ILP # 1442

Site # 273

ILP Map # 93L.014

Project Name Morice River Fish Inventory - 1999

Project Code 1710

REACH ATTRIBUTES										Sample Type	R		
Length (km)	.42	Elevation (m): upstream	878	downstream	850	UTM (Zone/East/North/ method)							
Gradient (%)	6.7	Order	1	Magnitude	1	BGC Zone	SBS	9	616555	600291	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	1999/09/21	Time	14:10	Agency:	C151				
Crew	EM/JA	Access	V2	MAP UTM (Zone/East/North/Method)	9	616775	6002888	GIS	
Site Length (m)	120	Method	GE	Fish Card	☐	Incomplete	☐	NID Map	93L.014
								NID #	13143

CHANNEL										
Channel Widths (m)	0.8	0.9	0.7	0.8	0.6	0.5	Average	0.7	Method(s)	T
Wetted Widths (m)	0.4	0.4	0.3	0.3	0.5	0.3		0.4		T
Resid. Pool Depths (m)	0.10	0.10	0.20	0.10	0.20	0.10		0.13		T
No Vis.Ch.	☐	Dewatered	☐	Gradients (%)	5.0	7.0	6.0	5.0	5.7	C, C
Intermittent	☐	Tributaries	☐	Bankfull Depth (m)	0.2	0.3	0.2	0.2		T

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

WATER										
Temperature	7	Methoc	T3	pH	7.2	Method	P2	EMS #		
Conductivity	30	Method	S3	Turbidity	☐ Turbid	☐ Medium	☐ Light	☒ Clear	Method	GE

MORPHOLOGY									
BED	Dominant Fines			D95(cm) (only 5%larger)			12		
MATERIAL	Subdominant Gravels			D (cm) (moveable)			0.5		
Channel Pattern	Irregular, Wandering								
Coupling	Decoupled								
Confinement	Unconfined								
Islands	None								
Morphology Code				Bars					
RP				☒ None ☐ Mid					
				☐ Side ☐ Span					
				☐ Diag. ☐ Braid					

Site/Reach Card

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

Reach 1.0

ILP # 1441

Site # 274

ILP Map # 93L.014

Project Name Morice River Fish Inventory - 1999

Project Code 1710

REACH ATTRIBUTES									
Length (km)	.68	Elevation (m): upstrea	878	downstream	831	UTM (Zone/East/North/ method)	Sample Type B		
Gradient (%)	6.9	Order 1	Magnitude 1	BGC Zone	SBS	9	616581	600323	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	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	1999/09/21	Time	15:30	Agency:	C151				
Crew	JA/EM	Access	V2	MAP UTM (Zone/East/North/Method)	9	617103	6003264	GIS	
Site Length (m)	200	Method	GE	Fish Card	☐	Incomplete	☐	NID Map	93L.014
								NID #	13144

CHANNEL									
No Visible Channe ☒									
Gradient(s) (%)	2.0	3.0	2.5	2.0					
Vegetation									
Veg. Stage									

FEATURE									
HABITAT QUALITY					FSZs	Slide Chan	Flood/Beave		
					Tribes	Flood Cha	Slough		

Name	Comments
Cover	no spawning, overwintering or rearing cover, no access.

PHOTO DOCUMENTATION									
Film	Compact Disc	Lens / Dir.	Comments						
Roll 27	Fr 5	CD 2112	Im 310	STD D	Site 274, photo of drainage classified as "No Visible Channel"				

COMMENT									
Form	Section	Comments							
SITE	CHANNEL	C1, NVC/NCD							
SITE	CHANNEL	C5, seasonal ponded water, non channelized.							

Site/Reach Card

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

Reach 1.0
Site # 273

ILP # 1442
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	Reach is accessible, but rearing cover is limited, connectivity poor.
OverWinter Habitat	No overwintering habitat noted.

PHOTO DOCUMENTATION

Film	Compact Disc	Lens / Dir.	Comments
Roll 27 Fr 6 CD 2112 Im 311 STD D	Site 273, looking downstream at a small pool and willow cover.		
Roll 27 Fr 7 CD 2112 Im 312 STD U	Site 273, looking upstream at a small channel.		

WILDLIFE

COMMENTS

Form	Section	Comments
SITE	CHANNEL	C1, S4*
SITE	CHANNEL	C2, based on access, poor fish habitat, low connectivity.
SITE	CHANNEL	C5, no suitable waters to shock at the site, just isolated pools separated by mud and willow.



Photo #: 27 - 6
Site 273, looking downstream at a small pool and willow cover.



Photo #: 27 - 7
Site 273, looking upstream at a small channel.



Photo #: 27 - 5

Site 274, photo of drainage classified as "No Visible Channel"

Site/Reach Card

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

Reach 1.0
Site # 275

ILP # 1462
ILP Map # 93L.014

Project Name Morice River Fish Inventory - 1999

Project Code 1710

REACH ATTRIBUTES										Sample Type	B	
Length (km)	.42	Elevation (m): upstream	740	downstream	697	UTM (Zone/East/North/ method)						
Gradient (%)	10.2	Order	1	Magnitude	1	BGC Zone	SBS	9	616544	600540	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	1999/09/21	Time	16:40	Agency:	C151					
Crew	EM/JA	Access	V2	MAP UTM (Zone/East/North/Method)	9	616601	6005508	GIS		
Site Length (m)	300	Method	GE	Fish Card	☐	Incomplete	☐	NID Map	93L.014	
								NID #	13145	

CHANNEL									
								Average	Method(s)
Channel Widths (m)	1.1	0.9	1.3	0.8	1.1	1.0		1.0	T
Wetted Widths (m)	0.3	0.4	0.5	0.3	0.2	0.1		0.3	T
Resid. Pool Depths (m)	0.20	0.30	0.20	0.20	0.20	0.20		0.22	T
No Vis.Ch.	☐	Dewatered	☐	Gradients (%)				8.0	10.0
Intermittent	☐	Tributaries	☐					9.0	8.0
				Bankfull Depth (m)				0.3	0.4
								0.4	0.4
								8.7	C, C
								0.4	T

Stage	☒ Low	COVER -		Total	None	LWD	None	Dist.	Not Applicable
	☐ Med.	SWD	LWD	Boulder	Cutbank	Deep Pool	Over Veg	Instream Veg	
	☐ High	None	None	None	None	None	None	None	
Crown Closure	21-40%	LEFT BANK				RIGHT BANK			
Instream Vegetation		Shape V - shaped (steep sloping or vertical)				Shape V - shaped (steep sloping or vertical)			
☐ None	☒ Moss	Riparian Veg. Mixed C/D				Riparian Veg. Mixed C/D			
☐ 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	7	Methoc	T3	pH	7.3	Method	P2	EMS #	
Conductivity	30	Method	S3	Turbidity	☐ Turbid	☐ Medium	☐ Light	☒ Clear	Method
									GE

MORPHOLOGY									
BED	Dominant Fines				D95(cm) (only 5%larger)		60		
MATERIAL	Subdominant Boulders				D (cm) (moveable)		5		
Channel Pattern	Irregular, Wandering								
Coupling	Decoupled								
Confinement	Unconfined								
Islands	None								
	Morphology Code				Bars				
	SP				☒ None				
					☐ Mid				
					☐ Side				
					☐ Span				
					☐ Diag.				
					☐ Braid				

Site/Reach Card

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

Reach 1.0
Site # 275

ILP # 1462
ILP Map # 93L.014

Project Name Morice River Fish Inventory - 1999

Project Code 1710

REACH ATTRIBUTES										Sample Type	B	
Length (km)	.42	Elevation (m): upstream	740	downstream	697	UTM (Zone/East/North/ method)						
Gradient (%)	10.2	Order	1	Magnitude	1	BGC Zone	SBS	9	616544	600540	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	☐		

SITE											
Gazetted Name	Local Name Unnamed										
Survey Date	1999/09/21	Time	16:40	Agency:	C151						
Crew	EM/JA	Access	V2	MAP UTM (Zone/East/North/Method)	9	616601	6005508	GIS			
Site Length (m)	300	Method	GE	Fish Card	☐	Incomplete	☐	NID Map	93L.014	NID #	13145

CHANNEL										
Channel Widths (m)	1.1	0.9	1.3	0.8	1.1	1.0	Average	1.0	Method(s)	T
Wetted Widths (m)	0.3	0.4	0.5	0.3	0.2	0.1		0.3		T
Resid. Pool Depths (m)	0.20	0.30	0.20	0.20	0.20	0.20		0.22		T
No Vis.Ch.	☐	Dewatered	☐	Gradients (%)	8.0	10.0	9.0	8.0	8.7	C, C
Intermittent	☐	Tributaries	☐	Bankfull Depth (m)	0.3	0.4	0.4		0.4	T

Stage	☒ Low	COVER -	Total	None	LWD	None	Dist.	Not Applicable	
	☐ Med.	SWD	LWD	Boulder	Cutbank	Deep Pool	Over Veg	Instream Veg	
	☐ High	None	None	None	None	None	None	None	
Crown Closure	21-40%	LEFT BANK			RIGHT BANK				
Instream Vegetation		Shape V - shaped (steep sloping or vertical)			Shape V - shaped (steep sloping or vertical)				
☐ None	☒ Moss	Riparian Veg. Mixed C/D			Riparian Veg. Mixed C/D				
☐ 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	7	Methoc	T3	pH	7.3	Method	P2	EMS #		
Conductivity	30	Method	S3	Turbidity	☐ Turbid	☐ Medium	☐ Light	☒ Clear	Method	GE

MORPHOLOGY									
BED	Dominant Fines			D95(cm) (only 5%larger)	60				
MATERIAL	Subdominant Boulders			D (cm) (moveable)	5				
Channel Pattern	Irregular, Wandering								
Coupling	Decoupled								
Confinement	Unconfined								
Islands	None								
Morphology Code				SP					
Bars				☒ None ☐ Mid ☐ Side ☐ Span ☐ Diag. ☐ Braid					



Photo #: 27 - 8
Site 275, looking downstream at a vegetated drainage.



Photo #: 27 - 9
Site 275, looking upstream at a poorly defined channel.

Site/Reach Card

Watershed Code 460-600600-36400-36600-0000-0000-000-000-000-000-000

Reach 1.0

Site # 276

Project Name Morice River Fish Inventory - 1999

Project Code 1710

REACH ATTRIBUTES										Sample Type	B	
Length (km)	1.23	Elevation (m): upstream	840	downstream	734	UTM (Zone/East/North/ method)						
Gradient (%)	8.6	Order	2	Magnitude	1	BGC Zone	SBS	9	623839	5997945	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	1999/09/20	Time	14:50	Agency:	C151							
Crew	EM/JA	Access	V2	MAP UTM (Zone/East/North/Method)	9	623016	5998267	GIS				
Site Length (m)	200	Method	GE	Fish Card	☐ Incomplete	☐	NID Map	93L.015	NID #	13146		

CHANNEL										
Channel Widths (m)	0.9	0.9	0.8	0.7	0.9	1.0	Average	0.9	Method(s)	T
Wetted Widths (m)							n/a			
Resid. Pool Depths (m)							n/a			
No Vis.Ch.	☐	Dewatered	☐	Gradients (%)	10.0	11.0	9.0	10.0	10.0	C, C
Intermittent	☒	Tributaries	☐	Bankfull Depth (m)	n/a					

Stage	☒ Low	COVER -	Total	None	LWD	None	Dist.	Not Applicable	
	☐ Med.	SWD	LWD	Boulder	Cutbank	Deep Pool	Over Veg	Instream Veg	
	☐ High	None	None	None	None	None	None	None	
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. Mixed C/D			Riparian Veg. Mixed C/D				
☐ 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	7	Method	T3	pH	7.2	Method	P2	EMS #		
Conductivity	40	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	Sinuous								
Coupling	Decoupled								
Confinement	Unconfined								
Islands	None								
Morphology Code									
LC									
Bars									
☒ None ☐ Mid									
☐ Side ☐ Span									
☐ Diag. ☐ Braid									
Abandoned channels	☐ B1	SWD	☐ D1	Extensive riffles	☐ C1				
Homog. bed	☐ S1								

Site/Reach Card

Watershed Code 460-600600-36400-36600-0000-0000-000-000-000-000-000

Reach 1.0

Site # 276

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
Other	Upstream of the road, water collects in a ditch and the culvert channelizes the flow very briefly.
Cover	poor, intermittent channel, underground flow, stretches of 1-3m of pooling in a vegetated swale.

PHOTO DOCUMENTATION

Film	Compact Disc	Lens / Dir.	Comments
Roll 26 Fr 10 CD 2112 Im 291 STD U			Site 276, looking upstream at seepage in a willow swale.
Roll 26 Fr 11 CD 2112 Im 292 STD D			Site 276, looking downstream at seepage in a willow swale.

WILDLIFE

COMMENT

Form	Section	Comments
SITE	CHANNEL	C1, S6
SITE	CHANNEL	C2, no connectivity, just mosses, willow and seepage.
SITE	CHANNEL	C5, no bed scour, no substrate.



Photo #: 26 - 11
Site 276, looking downstream at seepage in a willow swale.



Photo #: 26 - 10
Site 276, looking upstream at seepage in a willow swale.

Site/Reach Card

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

Reach 2.0

ILP # 1175

Site # 277

ILP Map # 93L.015

Project Name Morice River Fish Inventory - 1999

Project Code 1710

REACH ATTRIBUTES										Sample Type		
Length (km)	.50	Elevation (m): upstream	880	downstream	819	UTM (Zone/East/North/ method)						
Gradient (%)	12.2	Order	1	Magnitude	1	BGC Zone	SBS	9	619616	599831	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	☐	
									(D)iscontinuous	☒	N	

SITE											
Gazetted Name						Local Name	Unnamed				
Survey Date	1999/09/20	Time	15:50	Agency:	C151						
Crew	EM/JA	Access	V2	MAP UTM (Zone/East/North/Method)	9	619804	5998013	GIS			
Site Length (m)	200	Method	GE	Fish Card	☐	Incomplete	☐	NID Map	93L.015	NID #	13147

CHANNEL											
Channel Widths (m)	0.5	0.4	0.4	0.5	0.4	0.6	Average	0.5	Method(s)	T	
Wetted Widths (m)							n/a	T			
Resid. Pool Depths (m)							n/a				
No Vis.Ch.	☐	Dewatered	☐	Gradients (%)				7.0	6.0	7.0	7.0
Intermittent	☒	Tributaries	☐	Bankfull Depth (m)				0.4	0.5	0.4	0.4
								6.7	C, C		
								0.4	T		

Stage	☒ Low	COVER -		Total	None	LWD	None	Dist.	Not Applicable	
	☐ Med.	SWD	LWD	Boulder	Cutbank	Deep Pool	Over Veg	Instream Veg		
	☐ High	None	None	None	None	None	None	None		
Crown Closure	1-20%	LEFT BANK				RIGHT BANK				
Instream Vegetation		Shape Undercut				Shape Sloping (gradual or shallow sloping)				
☐ None	☒ Moss	Riparian Veg. Mixed C/D				Riparian Veg. Mixed C/D				
☐ 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	Methoc	pH	Method	EMS #						
Conductivity	Method	Turbidity	☐ Turbid	☐ Medium	☐ Light	☐ Clear	Method			

MORPHOLOGY										
BED	Dominant Gravels	D95(cm) (only 5% larger)				18				
MATERIAL	Subdominant Cobble	D (cm) (moveable)				5				
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 2.0
Site # 277

ILP # 1175
ILP Map # 93L.015

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 ☐ C1		Dist. stone line ☐ C5	Extensive sco ☐ S5

FEATURES

HABITAT QUALITY

FSZs

Side Chan ☐

Flood/Beave ☐

Tribs ☐

Flood Cha ☐

Sloug ☐

Name	Comments
Rearing Habitat	seasonl flows only, with a short wetted season, no rearing cover noted.
Spawning Habitat	none, moss covered, dry cobble in a vegetated channel noted.
OverWinter Habitat	no water, no pools, no overwintering cover noted.

PHOTO DOCUMENTATION

Film	Compact Disc	Lens / Dir.	Comments
Roll 26 Fr 12 CD 2112 Im 293 STD U			Site 277, photo of a mossy channel.
Roll 26 Fr 13 CD 2112 Im 294 STD D			Site 277, looking downstream at some exposed cobble in the sampling area.

WILDLIFE

COMMENTS

Form	Section	Comments
SITE	CHANNEL	C1, S6
SITE	CHANNEL	C2, vegetated channel, no culvert, no fish access, no water to shock.
SITE	CHANNEL	C5, no evidence of recent flow.



Photo #: 26 - 13
Site 277, looking downstream at some exposed cobble in the sampling area.



Photo #: 26 - 12
Site 277, photo of a mossy channel.

Site/Reach Card

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

Reach 3.0
Site # 278

ILP # 1176
ILP Map # 93L.015

Project Name Morice River Fish Inventory - 1999

Project Code 1710

REACH ATTRIBUTES										Sample Type	B	
Length (km)	.64	Elevation (m): upstream	840	downstream	810	UTM (Zone/East/North/ method)						
Gradient (%)	4.7	Order	1	Magnitude	1	BGC Zone	SBS	9	618832	599747	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	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	1999/09/20	Time	16:30	Agency:	C151					
Crew	EM/JA	Access	V2	MAP UTM (Zone/East/North/Method)	9	618846	5997362	GIS		
Site Length (m)	150	Method	GE	Fish Card	☐ Incomplete	☐	NID Map	93L.015	NID #	13148

CHANNEL												
Channel Widths (m)	0.4	0.3	0.4	0.2	0.3	0.5	Average	0.3	Method(s)	T		
Wetted Widths (m)							n/a					
Resid. Pool Depths (m)							n/a					
No Vis.Ch.	☐	Dewatered	☐	Gradients (%)			7.0	6.0	7.0	8.0	7.0	C, C
Intermittent	☒	Tributaries	☐	Bankfull Depth (m)			0.3	0.4	0.3	0.3		T

Stage	☒ Low	COVER -		Total	None	LWD	Few	Dist.	Evenly Distributed
	☐ Med.	SWD	LWD	Boulder	Cutbank	Deep Pool	Over Veg	Instream Veg	
	☐ High	None	None	None	None	None	None	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)			
☒ None	☐ Moss	Riparian Veg. Mixed C/D				Riparian Veg. Mixed C/D			
☐ 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	Method	pH	Method	EMS #						
Conductivity	Method	Turbidity	☐ Turbid	☐ Medium	☐ Light	☐ Clear	Method			

MORPHOLOGY										
BED	Dominant Gravels	D95(cm) (only 5% larger)	5							
MATERIAL	Subdominant Fines	D (cm) (moveable)	1							
Channel Pattern	Irregular, Wandering									
Coupling	Partially Coupled									
Confinement	Frequently 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 3.0
Site # 278

ILP # 1176
ILP Map # 93L.015

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, ephemeral drainage with moss and leaf litter cover cobble noted.
Rearing Habitat	no rearing, poorly defined channel and limited access.
OverWinter Habitat	no water, no pools, no overwintering cover.

PHOTO DOCUMENTATION

Film	Compact Disc	Lens / Dir.	Comments
Roll 26 Fr 14 CD 2112 Im 295 STD D			Site 278, looking downstream at the channel, note the gravels and leaf litter.
Roll 26 Fr 15 CD 2112 Im 296 STD U			Site 278, looking upstream at the channel, note the gravels and leaf litter.

WILDLIFE

COMMENTS

Form	Section	Comments
SITE	CHANNEL	C1, S6
SITE	CHANNEL	C2, no access due to loss of channel definition.
SITE	CHANNEL	C5, the culvert also blocks access upstream.
SITE	CHANNEL	C5, small channel, limited and seasonal discharge. No wetted habitat to sample at the time of survey.



Photo #: 26 - 14
Site 278, looking downstream at the channel, note the gravels and leaf litter.



Photo #: 26 - 15
Site 278, looking upstream at the channel, note the gravels and leaf litter.

Site/Reach Card

Watershed Code 460-600600-36400-50200-0640-0000-000-000-000-000-000

Reach 1.0
Site # 279

Project Name Morice River Fish Inventory - 1999

Project Code 1710

REACH ATTRIBUTES										Sample Type	B	
Length (km)	.76	Elevation (m): upstream	810	downstream	767	UTM (Zone/East/North/ method)						
Gradient (%)	5.7	Order	3	Magnitude	6	BGC Zone	SBS	9	619828	5997188	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	Mixed C/D			Valley Flat	No valley flat on either bank				(C)ontinuous			☐ N
									(D)iscontinuous			☐

SITE												
Gazetted Name						Local Name	Unnamed					
Survey Date	1999/09/20	Time	17:30	Agency:	C151							
Crew	EM/JA	Access	FT	MAP UTM (Zone/East/North/Method)	9	620016	5996913	GIS				
Site Length (m)	100	Method	GE	Fish Card	☒ Incomplete	☐	NID Map	93L.015	NID # 13149			

CHANNEL												
Channel Widths (m)	1.6	1.5	2.0	1.9	1.8	1.5	Average	1.7	Method(s)	T		
Wetted Widths (m)	0.8	0.7	0.5	0.6	0.7	0.8		0.7		T		
Resid. Pool Depths (m)	0.20	0.20	0.30	0.30	0.20	0.30		0.25		T		
No Vis.Ch.	☐	Dewatered	☐	Gradients (%)			4.0	4.0	5.0	4.0	4.2	C, C
Intermittent	☐	Tributaries	☐	Bankfull Depth (m)			0.4	0.3	0.3		0.3	T

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

WATER										
Temperature	10	Method	T3	pH	7.2	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	Fines	D (cm) (moveable)			3				
Channel Pattern	Irregular, Wandering									
Coupling	Coupled									
Confinement	Confined									
Islands	None									
Abandoned channels					☐ B1	SWD		☐ D1	Extensive riffles	☐ C1
Homog. bed					☐ S1					

Site/Reach Card

Watershed Code 460-600600-36400-50200-0640-0000-000-000-000-000-000

Reach 1.0

Site # 279

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 ☒
		Tribs. ☒	Flood/Beaver ☒
		Flood Chan ☒	Slough ☒

Name	Comments
Spawning Habitat	no spawning substrate noted.
Rearing Habitat	good rearing habitat, good complexity and structure associated with diverse and abundant cover types.
OverWinter Habitat	pools up to 30cm noted.

PHOTO DOCUMENTATION							
Film	Compact Disc	Lens / Dir.	Comments				
Roll 26 Fr 17 CD 2112 Im 298 STD U	Site 279, looking upstream at the channel, with boulder/cobble cover.						
Roll 26 Fr 18 CD 2112 Im 299 STD D	Site 279, looking downstream at the channel, with boulder/cobble cover.						

WILDLIFE	
COMMENT	

Form	Section	Comments
SITE	CHANNEL	C1, S3
SITE	CHANNEL	C2, CT captured.
SITE	CHANNEL	C5, large moss covered substrate, water is tannin stained.
SITE	CHANNEL	C5, willow comprises riparian cover.
SITE	SITE CARD	C6, FC # 24512

FDIS Fish Form

Watershed Code 460-600600-36400-50200-0640-0000-000-000-000-000-000

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: 1999/09/20 To: 1999/09/20 Crew: EM/JA Resample ☐

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

279 93L015 13149 9 620016 5996913 EF 1 10.0 30 C

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

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

279 EF 1 1 1999/09/20 17:30 1999/09/20 18:10

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

Site	MTD/NO	H/P	Encl	Sec.	Length	Width	Volts	Hz	Pulse	Make	Model
279	EF	1	1	O	138	100.0	1.0	700	60	0.4-8 SR	12 B POW

FISH SUMMARY											
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Site	MTD/NO	H/P	Species	Stage	Age	Total #	Lgth (Min/Max)	Activity	Comment
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279	EF	1	1	CT	J	3	53 60	R	
-----	----	---	---	----	---	---	-------	---	--

INDIVIDUAL FISH DATA											
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Site	MTD/NO	H/P	Species	Length (mm)	Weight (g)	Sex	Mat	Age	Genetic	Photograph	Comment
279	EF	1	1	CT	53	U	U				
279	EF	1	1	CT	57	U	U				
279	EF	1	1	CT	60	U	U				

COMMENTS											
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Photo #: 26 - 17
Site 279, looking upstream at the channel, with boulder/cobble cover.

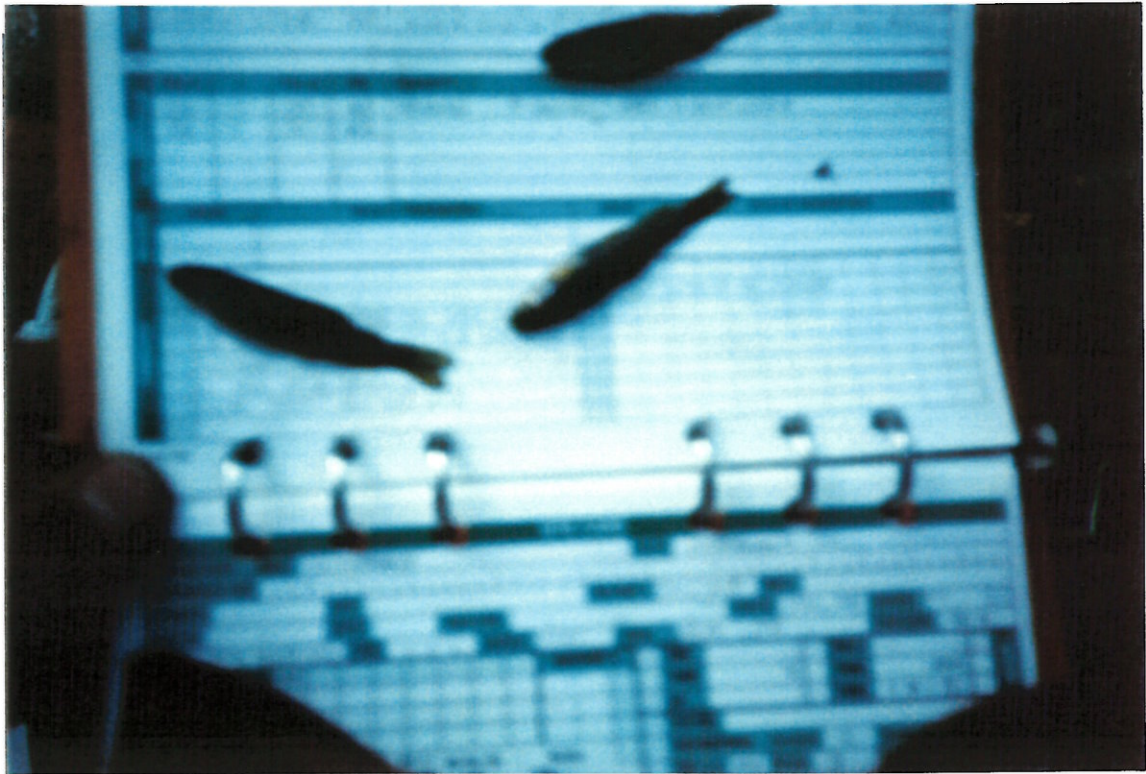


Photo #: 26 - 16
Site 279, photo of 3 cutthroat trout fry on a field book.



Photo #: 26 - 18

Site 279, looking downstream at the channel, with boulder/cobble cover.

Site/Reach Card

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

Reach 1.0
Site # 301

ILP # 1401
ILP Map # 93E.093

Project Name Morice River Fish Inventory - 1999

Project Code 1710

REACH ATTRIBUTES										Sample Type	B	
Length (km)	1.18	Elevation (m): upstream	980	downstream	898	UTM (Zone/East/North/ method)						
Gradient (%)	7.0	Order	2	Magnitude	2	BGC Zone	SBS	9	603403	598429	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	1999/08/10	Time	07:50	Agency:	C151					
Crew	JD/JA	Access	V4	MAP UTM (Zone/East/North/Method)	9	602941	5984360	GIS		
Site Length (m)	200	Method	NS	Fish Card	☒ Incomplete	☐	NID Map	93E.093	NID #	40001

CHANNEL										
Channel Widths (m)	2.0	1.9	2.0	1.9	2.0	2.2	Average	2.0	Method(s)	MS
Wetted Widths (m)	1.1	1.0	0.9	1.2	1.2	1.1		1.1		MS
Resid. Pool Depths (m)	0.18	0.19	0.23	0.15	0.16	0.17		0.18		MS
No Vis.Ch.	☐	Dewatered	☐	Gradients (%)	2.0	1.5	2.0	2.0	1.9	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
				Trace	Dominant	None	ub-Dominant	ub-Dominant	Trace	None
Crown Closure	0%									
Instream Vegetation	LEFT BANK Shape Sloping (gradual or shallow sloping) Riparian Veg. Shrubs Riparian Stage Shrub/herb stage Texture ☒ Fines ☒ Gravel ☐ Cobble ☐ Boulder ☐ Rock ☐ Man Made RIGHT BANK Shape Overhanging bank Riparian Veg. Shrubs Riparian Stage Shrub/herb stage Texture ☒ Fines ☒ Gravel ☐ Cobble ☐ Boulder ☐ Rock ☐ Man Made									

WATER										
Temperature	10	Methoc	T3	pH	6.8	Method	P1	EMS #		
Conductivity	30	Method	S3	Turbidity	☐ Turbid	☐ Medium	☐ Light	☒ Clear	Method	GE

MORPHOLOGY									
BED	Dominant Gravels				D95(cm) (only 5%larger)	25			
MATERIAL	Subdominant Cobble				D (cm) (moveable)	15			
Channel Pattern	Irregular Meanders								
Coupling	Decoupled								
Confinement	Unconfined								
Islands	None								
Morphology Code					Bars ☒ None ☐ Mid ☐ Side ☐ Span ☐ Diag. ☐ Braid				
RP									

Site/Reach Card

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

Reach 1.0
Site # 301

ILP # 1401
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 BG Height .0 Method Length 5 Method GE

Comments General crossing

Photograph Roll Frame UTM (Zone/East/North/ Method) 9 602528 598448 GIS

HABITAT QUALITY

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

Name	Comments
Rearing Habitat	Moderate, limited by seasonal flows
Spawning Habitat	Excellent - good gravel, numerous fry observed, adequate flow
OverWinter Habitat	No overwintering habitat

PHOTO DOCUMENTATION

Film	Compact Disc	Lens / Dir.	Comments
Roll 1 Fr 1 CD 2110 Im 1 STD D	Site 301, looking downstream at Jesse shocking stream.		
Roll 1 Fr 2 CD 2110 Im 2 STD U	Site 301, looking upstream at Jesse shocking stream.		

WILDLIFE

COMMENTS

Form	Section	Comments
SITE	CHANNEL	C1, S3
SITE	CHANNEL	C2, DV captured
SITE	SITE CARD	C6, FC# 16309

FDIS Fish Form

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

Reach # 1.0

ILP # 1401

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:	1999/08/10	To:	1999/08/10	Crew:	JA/JD
Resample ☐							

Site	NID MAP	NID	UTM:Zone/East/North/ Mthd	MTD/NO	Temp	Cond	Turbid	Comment
301	93E.093	40001	9 602941 5984360	EF 1	10.0	30	C	

GEAR SETTINGS							
Site	MTD/NO	H/P	Date In	Time In	Date Out	Time Out	Comment
301	EF 1	1	1999/08/10	07:50	1999/08/10	09:20	

NET/TRAP SPECIFICATIONS											
ELECTROFISHER SPECIFICATIONS											
Site	MTD/NO	H/P	Encl	Sec.	Length	Width	Volts	Hz	Pulse	Make	Model
301	EF 1	1	O	219	100.0	2.0	400	60	6	SR	12 B POW

FISH SUMMARY											
Site	MTD/NO	H/P	Species	Stage	Age	Total #	Lgth (Min/Max)	Activity	Comment		
301	EF	1 1	DV	F	0+	1	28	28	R		
301	EF	1 1	DV	J	1+	10	54	78	R		
301	EF	1 1	DV	J	2+	4	84	126	R		
301	EF	1 1	DV	A	3+	1	189	189	R		

INDIVIDUAL FISH DATA													
Site	MTD/NO	H/P	Species	Length Weight		Sex	Mat	Age		Vch#	Genetic		Photograph
				(mm)	(g)			Str / Smpl# /	Age		Str/ Smpl#	Roll Fr.	
301	EF	1	1	DV	189		U	U					
301	EF	1	1	DV	125		U	U					1 3
301	EF	1	1	DV	94		U	U					
301	EF	1	1	DV	75		U	U					
301	EF	1	1	DV	76		U	U					
301	EF	1	1	DV	68		U	U					
301	EF	1	1	DV	54		U	U					
301	EF	1	1	DV	56		U	U					
301	EF	1	1	DV	78		U	U					
301	EF	1	1	DV	65		U	U					
301	EF	1	1	DV	28		U	U					
301	EF	1	1	DV	65		U	U					
301	EF	1	1	DV	78		U	U					
301	EF	1	1	DV	125		U	U					
301	EF	1	1	DV	84		U	U					
301	EF	1	1	DV	91		U	U					

COMMENTS													
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Photo #: 1 - 1
Site 301, looking downstream at Jesse shocking stream.



Photo #: 1 - 2
Site 301, looking upstream at Jesse shocking stream.



Photo #: 1 - 3
Site 301, photo of a 125 mm dolly varden.

Site/Reach Card

Watershed Code 460-600600-64400-22700-0000-0000-000-000-000-000-000

Reach 2.0

Site # 302

Project Name Morice River Fish Inventory - 1999

Project Code 1710

REACH ATTRIBUTES									
Length (km)	1.57	Elevation (m): upstream	940	downstream	870	UTM (Zone/East/North/ method)	Sample Type ☒ R		
Gradient (%)	4.5	Order	3	Magnitude	4	BGC Zone	SBS	9	602982 5984819 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	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	1999/08/10	Time	10:00	Agency:	C151				
Crew	JA/JD	Access	V4	MAP UTM (Zone/East/North/Method)	9	602798	5984756	GIS	
Site Length (m)	400	Method	NS	Fish Card	☒	Incomplete	☐	NID Map	93L.003
								NID #	40002

CHANNEL											
Channel Widths (m)	3.7	3.7	4.4	4.5	3.4	3.0	Average	3.8	Method(s)		
Wetted Widths (m)	2.2	2.6	2.1	2.9	3.1	2.3		2.5	MS		
Resid. Pool Depths (m)	0.25	0.29	0.31	0.22	0.29	0.31		0.28	MS		
No Vis.Ch.	☐	Dewatered	☐	Gradients (%)		3.0	2.5	3.5	3.0	3.0	C, C
Intermittent	☐	Tributaries	☐	Bankfull Depth (m)		0.4	0.4	0.6		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	Dominant	Trace	Sub-Dominant	Trace	Trace	None	
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. 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	7.4	Method	P1	EMS #	
Conductivity	30	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)		25				
Channel Pattern	Irregular, Wandering		Morphology Code		RP		Bars		
Coupling	Decoupled						☒ 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 460-600600-64400-22700-0000-0000-000-000-000-000-000

Reach 2.0

Site # 302

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 BG Height .0 Method Length 5 Method GE

Comments Ford (winter road)

Photograph Roll Frame UTM (Zone/East/North/ Method) 9 602449 5984666 GIS

HABITAT QUALITY

FSZs

Side Chan ☒

Flood/Beaver ☒

Trips ☒

Flood Chan ☒

Slough ☒

Name	Comments
Spawning Habitat	Good spawning habitat
Rearing Habitat	Good rearing habitat
OverWinter Habitat	Limited overwintering habitat

PHOTO DOCUMENTATION

Film	Compact Disc	Lens / Dir.	Comments
Roll 1 Fr 4 CD 2110 Im 4 STD U	Site 302, looking upstream at hard hat/axe/jesse shocking stream.		
Roll 1 Fr 5 CD 2110 Im 5 STD D	Site 302, looking downstream at alder overstream.		

WILDLIFE

COMMENT

Form	Section	Comments
SITE	CHANNEL	C1, S3 stream
SITE	CHANNEL	C2, DV captured
SITE	SITE CARD	C6, FC# 15983

FDIS Fish Form

Watershed Code 460-600600-64400-22700-0000-0000-000-000-000-000-000

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: 1999/08/10 To: 1999/08/10 Crew: JA/JD Resample ☐

Site	NID MAP	NID	UTM:Zone/East/North/	Mthd	MTD/NO	Temp	Cond	Turbid	Comment
302	93L.003	40002	9 602798 5984756	EF	1	9.0	30	C	

GEAR SETTINGS							
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Site	MTD/NO	H/P	Date In	Time In	Date Out	Time Out	Comment
302	EF 1	1	1999/08/10	09:30	1999/08/10	11:15	

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
302	EF 1	1	O	149	100.0	3.5	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
302	EF 1	1	DV	J	1+	7	48 86	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.	
302	EF	1	1	DV	76			U	U								
302	EF	1	1	DV	58			U	U								
302	EF	1	1	DV	65			U	U						1	6	
302	EF	1	1	DV	48			U	U								
302	EF	1	1	DV	86			U	U								
302	EF	1	1	DV	62			U	U								
302	EF	1	1	DV	58			U	U								

COMMENTS																	
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Photo #: 1 - 4
Site 302, looking upstream at hard hat/axe/Jesse shocking stream.



Photo #: 1 - 6
Site 302, photo of a 65 mm dolly varden.



Photo #: 1 - 5
Site 302, looking downstream at alder overstream.

Site/Reach Card

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

Reach 1.0
Site # 303

ILP # 1406
ILP Map # 93L.003

Project Name Morice River Fish Inventory - 1999

Project Code 1710

REACH ATTRIBUTES										Sample Type	B	
Length (km)	.76	Elevation (m): upstream	975	downstream	929	UTM (Zone/East/North/ method)						
Gradient (%)	6.1	Order	1	Magnitude	1	BGC Zone	SBS	9	603064	598540	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	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	1999/08/10	Time	11:30	Agency:	C151					
Crew	JA/JD	Access	V4	MAP UTM (Zone/East/North/Method)	9	602793	5984856	GIS		
Site Length (m)	200	Method	NS	Fish Card	☐ Incomplete	☐	NID Map	93L.003	NID #	40003

CHANNEL										
Channel Widths (m)	1.0	0.5	1.1	0.9	0.8	0.6	Average	Method(s)		
Wetted Widths (m)							0.8	MS		
Resid. Pool Depths (m)							n/a			
No Vis.Ch.	☐	Dewatered	☐	Gradients (%)	2.0	1.0	3.0	4.0	2.5	C, C
Intermittent	☒	Tributaries	☐	Bankfull Depth (m)	0.2	0.2	0.2		0.2	MS

Stage	☒ Low	COVER -		Total	Abundant	LWD	None	Dist.	
	☐ Med.	SWD	LWD	Boulder	Cutbank	Deep Pool	Over Veg	Instream Veg	
	☐ High	None	Trace	None	None	None	ub-Dominant	Dominant	
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. Coniferous			Riparian Veg. Deciduous				
☐ Algae	☒ Vasc.	Riparian Stage Mature forest			Riparian Stage Pole-sapling stage				
		Texture	☒ Fines	☐ Gravel	☐ Cobble	Texture	☒ Fines	☐ Gravel	☐ Cobble
			☐ Boulder	☐ Rock	☐ Man Made		☐ Boulder	☐ Rock	☐ Man Made

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

MORPHOLOGY									
BED	Dominant Fines			D95(cm) (only 5%larger)	15				
MATERIAL	Subdominant Gravels			D (cm) (moveable)	2				
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 # 303

ILP # 1406
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

HABITAT QUALITY

FSZs

Side Chan ☒

Flood/Beave ☒

Trips ☒

Flood Cha ☒

Sloug ☒

Name	Comments
Spawning Habitat	No spawning habitat - no substrate, no flow
Rearing Habitat	No rearing habitat - no water
OverWinter Habitat	No overwintering habitat

PHOTO DOCUMENTATION

Film	Compact Disc	Lens / Dir.	Comments
Roll 1 Fr 7 CD 2110 Im 7 STD U			Site 303, looking upstream at overstream vegetation.
Roll 1 Fr 8 CD 2110 Im 8 STD D			Site 303, looking downstream at Jesse in moss covered channel.

WILDLIFE

COMMENTS

Form	Section	Comments
SITE	CHANNEL	C1, S6
SITE	CHANNEL	C2, no connection, ephemeral, no water
SITE	SITE CARD	C6, No fish card



Photo #: 1 - 8
Site 303, looking downstream at Jesse in moss covered channel.



Photo #: 1 - 7
Site 303, looking upstream at overstream vegetation.

Site/Reach Card

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

Reach 3.0

ILP # 1500

Site # 304

ILP Map # 93L.003

Project Name Morice River Fish Inventory - 1999

Project Code 1710

REACH ATTRIBUTES										Sample Type	B	
Length (km)	.81	Elevation (m): upstream	830	downstream	811	UTM (Zone/East/North/ method)						
Gradient (%)	2.4	Order	4	Magnitude	35	BGC Zone	SBS	9	603572	598935	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	1999/08/10	Time	12:30	Agency:	C151					
Crew	JA/JD	Access	V2	MAP UTM (Zone/East/North/Method)	9	603512	5989529	GIS		
Site Length (m)	300	Method	HC	Fish Card	☒ Incomplete	☐	NID Map	93L.003	NID #	40004

CHANNEL										
Channel Widths (m)	6.6	8.2	5.3	6.2	7.0	6.2	Average	Method(s)		
Wetted Widths (m)	3.2	4.2	2.2	3.3	5.0	3.5	6.6	MS		
Resid. Pool Depths (m)	0.26	0.31	0.76	0.52	0.41	0.36	3.5	MS		
							0.44	MS		
No Vis.Ch.	☐	Dewatered	☐	Gradients (%)	1.5	1.0	2.0	1.0	1.4	C, C
Intermittent	☐	Tributaries	☐	Bankfull Depth (m)	0.8	0.8	0.9		0.8	MS

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

WATER									
Temperature	12	Methoc	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)	25			
MATERIAL	Subdominant Gravels				D (cm) (moveable)	15			
Channel Pattern	Sinuous								
Coupling	Decoupled								
Confinement	Unconfined								
Islands	None								
Morphology Code					Bars				
RP					☐ None				
					☐ Mid				
					☒ Side				
					☐ Span				
					☐ Diag.				
					☐ Braid				

Site/Reach Card

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

Reach 3.0

ILP # 1500

Site # 304

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
Beaver dam ☐ O1 Mult. chan./braid ☐ C4 Extensive bar ☐ S4
Dist. stone line ☐ C5 Extensive sco ☐ S5

FEATURES

Type BR Height 3.0 Method GE Length 20 Method GE

Comments Full span bridge

Photograph Roll 1 Frame 10 UTM (Zone/East/North/ Method) 9 603428 598965 GIS

HABITAT QUALITY

FSZs

Side Chan ☒

Flood/Beave ☒

Tribs ☒

Flood Cha ☒

Sloug ☒

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

PHOTO DOCUMENTATION

Film	Compact Disc	Lens / Dir.	Comments
Roll 1 Fr 12 CD 2110 1m 12 STD D	Site 304, looking downstream at corner pool with LWD.		
Roll 1 Fr 13 CD 2110 1m 13 STD U	Site 304, looking upstream at overhanging vegetation (alders) and large gravel bars.		
Roll 1 Fr 10 CD 2110 1m 10 STD U	Site 304, looking upstream at full span bridge.		

WILDLIFE

COMMENTS

Form	Section	Comments
SITE	CHANNEL	C1, S2
SITE	CHANNEL	C2, RB and DV captured
SITE	SITE CARD	C6, FC# 7193

FDIS Fish Form

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

Reach # 3.0

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: 1999/08/10 To: 1999/08/10 Crew: JAJJD Resample ☐

Site	NID MAP	NID	UTM:Zone/East/North/ Mthd	MTD/NO	Temp	Cond	Turbid	Comment
304	93L.003	40004	9 603512 5989529	EF 1	12.0	70	C	

GEAR SETTINGS

Site	MTD/NO	H/P	Date In	Time In	Date Out	Time Out	Comment
304	EF 1	1	1999/08/10	12:35	1999/08/10	13:19	

NET/TRAP SPECIFICATIONS

ELECTROFISHER SPECIFICATIONS

Site	MTD/NO	H/P	Encl	Sec.	Length	Width	Volts	Hz	Pulse	Make	Model
304	EF 1	1	O	340	300.0	6.0	400	60	6	SR	12-B

FISH SUMMARY

Site	MTD/NO	H/P	Species	Stage	Age	Total #	Lgth (Min/Max)	Activity	Comment	
304	EF	1	1	RB	J	1+	3	63	93	R
304	EF	1	1	RB	A	2+	3	100	156	R
304	EF	1	1	DV	J	1+	6	69	97	R
304	EF	1	1	DV	F	0+	3	36	39	R
304	EF	1	1	DV	A	2+	1	111	111	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
304	EF	1	1	DV	111		U	U							
304	EF	1	1	DV	69		U	U						1	9
304	EF	1	1	DV	39		U	U							
304	EF	1	1	DV	86		U	U							
304	EF	1	1	DV	89		U	U							
304	EF	1	1	DV	78		U	U							
304	EF	1	1	DV	36		U	U							
304	EF	1	1	DV	39		U	U							
304	EF	1	1	DV	97		U	U							
304	EF	1	1	DV	74		U	U							
304	EF	1	1	RB	156		U	U							
304	EF	1	1	RB	86		U	U							
304	EF	1	1	RB	93		U	U							
304	EF	1	1	RB	63		U	U							
304	EF	1	1	RB	100		U	U							
304	EF	1	1	RB	132		U	U						1	11

COMMENTS



Photo #: 1 - 12
Site 304, looking downstream at corner pool with LWD.



Photo #: 1 - 10
Site 304, looking upstream at full span bridge.



Photo #: 1 - 13

Site 304, looking upstream at overhanging vegetation (alders) and large gravel bars.

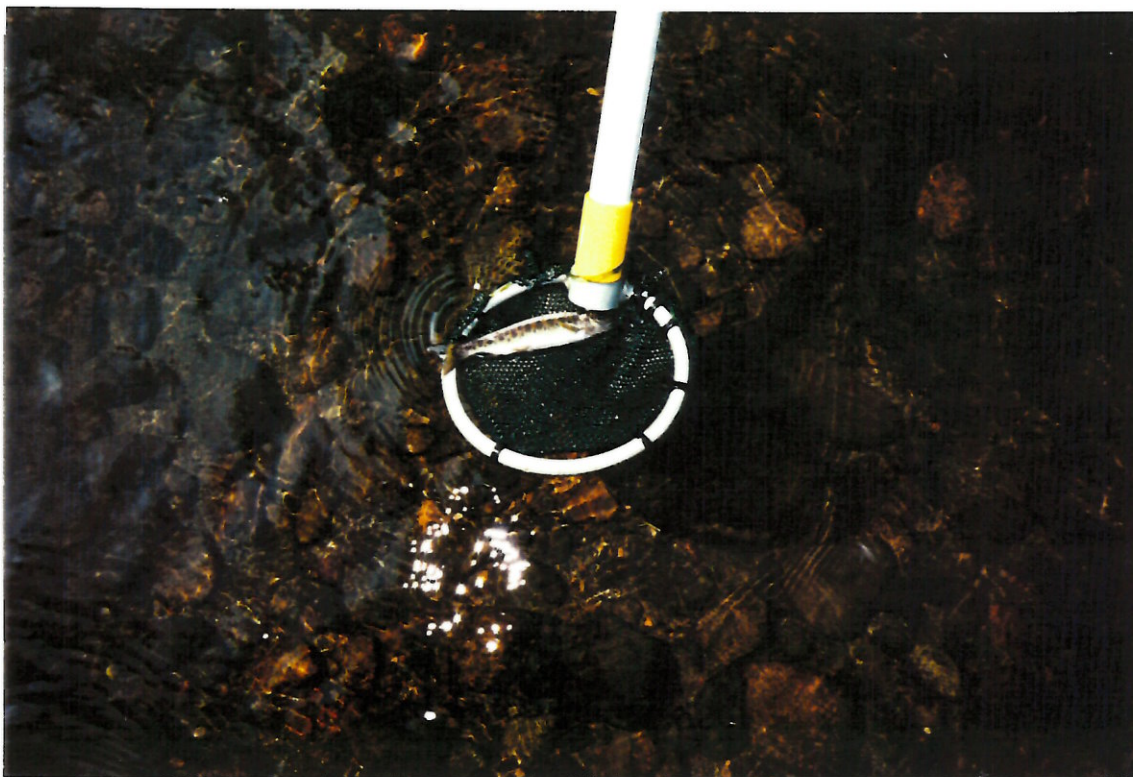


Photo #: 1 - 11

Site 304, photo of a 132 mm rainbow trout.



Photo #: 1 - 9
Site 304, photo of a 69 mm dolly varden.

Site/Reach Card

Watershed Code 460-600600-64400-18300-0000-0000-000-000-000-000-000

Reach 4.0

Site # 305

Project Name Morice River Fish Inventory - 1999

Project Code 1710

REACH ATTRIBUTES									
Length (km)	.96	Elevation (m): upstream	848	downstream	841	UTM (Zone/East/North/ method)			
Gradient (%)	0.7	Order	4	Magnitude	41	BGC Zone	ESSF	9	599540 5985551 GIS
Setting	Valley Wall		Bars		☐ None ☐ Side ☐ Diagonal ☒ Mid ☐ Span ☐ Braid				
Open water	A	Wetland	☐		Mass Movement	Medium impact; some debris		Active Floodplain	☐
Confinement	Unconfined		Exposed/Eroded		NONE		Width (m)		
Coupling	Partially 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 ☐ (D)iscontinuous ☒ N		

SITE									
Gazetted Name					Local Name	Unnamed			
Survey Date	1999/08/10	Time	14:20	Agency:	C151				
Crew	JA/JD	Access	V4	MAP UTM (Zone/East/North/Method)	9	599723	5985756	GIS	
Site Length (m)	300	Method	HC	Fish Card	☒ Incomplete ☐	NID Map	93L.003	NID #	40005

CHANNEL											
Channel Widths (m)	3.5	3.6	3.1	4.1	3.5	3.6	Average	3.6 MS			
Wetted Widths (m)	3.2	3.1	3.0	3.3	3.2	3.4		3.2 MS			
Resid. Pool Depths (m)	0.42	0.36	0.41	0.62	0.49	0.51		0.47 MS			
No Vis.Ch.	☐	Dewatered	☐	Gradients (%)		3.0	2.0	3.0	2.5	2.6	C, C
Intermittent	☐	Tributaries	☐	Bankfull Depth (m)		0.5	0.6	0.6	0.6		MS

Stage	☐ Low	COVER -		Total	Abundant	LWD	Abundant	Dist.	Evenly Distributed
	☐ Med.	SWD	LWD	Boulder	Cutbank	Deep Pool	Over Veg	Instream Veg	
	☒ High	Sub-Dominant	Dominant	Trace	Sub-Dominant	Trace	Sub-Dominant	Sub-Dominant	
Crown Closure	21-40%	LEFT BANK				RIGHT BANK			
Instream Vegetation		Shape Overhanging bank				Shape Sloping (gradual or shallow sloping)			
☐ None ☒ Moss		Riparian Veg. Coniferous				Riparian Veg. Deciduous			
☐ Algae ☒ Vasc.		Riparian Stage Mature forest				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	6.9	Method	P2	EMS #	
Conductivity	40	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)		20				
Channel Pattern	Irregular, Wandering		Morphology Code		RP				
Coupling	Partially Coupled		Bars		☐ None ☐ Mid ☒ Side ☐ Span ☐ Diag. ☐ Braid				
Confinement	Occasionally Confined		Abandoned channels		☐ B1				
Islands	None		SWD		☐ D1				
			Extensive riffles		☐ C1				
			Homog. bed		☐ S1				

Site/Reach Card

Watershed Code 460-600600-64400-18300-0000-0000-000-000-000-000-000

Reach 4.0

Site # 305

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 BR	Height 4.0	Method GE	Length 30	Method GE	
Comments Bridge					
Photograph Roll 1	Frame 14	UTM (Zone/East/North/ Method)	9	599506	5985597 GIS

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

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

PHOTO DOCUMENTATION							
Film	Compact Disc	Lens / Dir.	Comments				
Roll 1 Fr 15 CD 2110 Im 15 STD U	Site 305, looking upstream at Jesse shocking stream.						
Roll 1 Fr 16 CD 2110 Im 16 STD D	Site 305, looking downstream at Jesse shocking stream.						
Roll 1 Fr 14 CD 2110 Im 14 STD U	Site 305, looking upstream at bridge.						

WILDLIFE

COMMENT

Form	Section	Comments
SITE	CHANNEL	C1, S3
SITE	CHANNEL	C2, many species captured
SITE	SITE CARD	C6, FC# 15984

FDIS Fish Form

Watershed Code 460-600600-64400-18300-0000-0000-000-000-000-000-000

Reach # 4.0

ILP #

ILP Map #

Project Name Morice River Fish Inventory - 1999

Project Code 1710

Lake/Stream	S	SITE/METHOD				Waterbody ID
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Permit 34770-20 Date: 1999/08/10 To: 1999/08/10 Crew: JA/JD Resample ☐

Site	NID MAP	NID	UTM:Zone/East/North/ Mthd	MTD/NO	Temp	Cond	Turbid	Comment
305	93L.003	40005	9 599723 5985756	EF 1	10.0	40	L	

GEAR SETTINGS

Site	MTD/NO	H/P	Date In	Time In	Date Out	Time Out	Comment
305	EF 1	1	1999/08/10	14:20	1999/08/10	15:30	

NET/TRAP SPECIFICATIONS

ELECTROFISHER SPECIFICATIONS

Site	MTD/NO	H/P	Encl	Sec.	Length	Width	Volts	Hz	Pulse	Make	Model
305	EF 1	1	O	697	300.0	3.0	600	60	6	SR	12 B

FISH SUMMARY

Site	MTD/NO	H/P	Species	Stage	Age	Total #	Lgth (Min/Max)	Activity	Comment
305	EF	1 1	CO	J	0+	4	36 47	R	
305	EF	1 1	CH	J	1+	2	49 56	R	
305	EF	1 1	DV	A	2+	2	149 196	R	
305	EF	1 1	RB	J	1+	2	65 72	R	
305	EF	1 1	LSU	J	NS	3	41 66	R	

INDIVIDUAL FISH DATA

Site	MTD/NO	H/P	Species	Length (mm)	Weight (g)	Sex	Mat	Age	Str / Smp# / Vch#	Genetic	Photograph	Roll Fr.	Comment
305	EF	1 1	CO	42		U	U						
305	EF	1 1	CO	47		U	U						
305	EF	1 1	CO	39		U	U						
305	EF	1 1	CO	36		U	U						
305	EF	1 1	CH	49		U	U						
305	EF	1 1	CH	56		U	U						
305	EF	1 1	DV	149		U	U						
305	EF	1 1	DV	196		U	U						
305	EF	1 1	RB	72		U	U						
305	EF	1 1	RB	65		U	U						
305	EF	1 1	LSU	52		U	U						
305	EF	1 1	LSU	41		U	U						
305	EF	1 1	LSU	66		U	U						

COMMENTS

Section	Comments
WATERBODY	Difficult to shock effectively - large channel, swift flows.



Photo #: 1 - 14
Site 305, looking upstream at bridge.



Photo #: 1 - 15
Site 305, looking upstream at Jesse shocking stream.



Photo #: 1 - 16
Site 305, looking downstream at Jesse shocking stream.

Site/Reach Card

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

Reach 1.0

ILP # 95959

Site # 306

ILP Map # 93L.003

Project Name Morice River Fish Inventory - 1999

Project Code 1710

REACH ATTRIBUTES									
Length (km)	.21	Elevation (m): upstrea	846	downstream	845	UTM (Zone/East/North/ method)			
Gradient (%)	0.5	Order	1	Magnitude	1	BGC Zone	ESSF	9	599434 598529 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			Beaver Dam(s)
Channel Pattern	Irregular, Wandering					Landuse	None/natural		LWD Jam(s)
Riparian Vegetation	Wetland					Valley Flat	Valley flat on both; also if valley flat present		(C)ontinous (D)iscontinuous

SITE									
Gazetted Name						Local Name	Unnamed		
Survey Date	1999/08/10		Time	15:40		Agency	C151		
Crew	JD/JA		Access	V2		MAP UTM (Zone/East/North/Method)	9	599512 5985407	GIS
Site Length (m)	100	Method	HC	Fish Card	☐ Incomplete ☐	NID Map	93L.003	NID #	40006

CHANNEL

No Visible Channel ☒

Gradient(s) (%)

Vegetation

Veg. Stage

FEATURE

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

Name Comments
Cover none, no fish habitat.

PHOTO DOCUMENTATION

Film	Compact Disc	Lens / Dir.	Comments
Roll 1 Fr 17 CD 2110 Im 17 STD U	Site 306, photo of reach classified as "NVC", including an abandoned channel.		
Roll 1 Fr 18 CD 2110 Im 18 STD D	Site 306, photo of sedges in an abandoned channel.		

COMMENT

Form	Section	Comments
SITE	CHANNEL	C1, NVC.
SITE	CHANNEL	C2, not a stream, part of a wetland complex.
SITE	CHANNEL	C5, no flow at the time of survey.



Photo #: 1 - 17

Site 306, photo of reach classified as "NVC", including an abandoned channel.



Photo #: 1 - 18

Site 306, photo of sedges in an abandoned channel.

Site/Reach Card

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

Reach 3.0
Site # 307

ILP # 1276
ILP Map # 93L.003

Project Name Morice River Fish Inventory - 1999

Project Code 1710

REACH ATTRIBUTES										Sample Type	R	
Length (km)	.96	Elevation (m): upstream	998	downstream	890	UTM (Zone/East/North/ method)						
Gradient (%)	11.3	Order	1	Magnitude	1	BGC Zone	SBS	9	596338	598708	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	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	1999/08/11	Time	07:45	Agency:	C151					
Crew	JD/JA	Access	V4	MAP UTM (Zone/East/North/Method)	9	596585	5986333	GIS		
Site Length (m)	100	Method	NS	Fish Card	☒ Incomplete	☐	NID Map	93L.003	NID # 40007	

CHANNEL									
Channel Widths (m)	1.4	1.4	1.5	1.3	1.4	1.4	Average	Method(s)	
Wetted Widths (m)	0.4	0.4	0.5	0.3	0.5	0.4	1.4	MS	
Resid. Pool Depths (m)	0.11	0.15	0.16	0.17	0.19	0.08	0.4	MS	

No Vis.Ch.	☐	Dewatered	☐	Gradients (%)	22.0	23.0	21.0	20.0	21.5	C, C
Intermittent	☐	Tributaries	☐	Bankfull Depth (m)	0.4	0.4	0.4	0.4	0.4	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	ub-Dominant	Trace	None	ub-Dominant	ub-Dominant	
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 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	8	Method	T3	pH	7.1	Method	P1	EMS #	
Conductivity	50	Method	S3	Turbidity	☐ Turbid	☐ Medium	☐ Light	☒ Clear	Method GE

MORPHOLOGY									
BED	Dominant Boulders				D95(cm) (only 5%larger)	50			
MATERIAL	Subdominant Cobble				D (cm) (moveable)	25			
Channel Pattern	Sinuous								
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 3.0

ILP # 1276

Site # 307

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 F	Height 1.9	Method GE	Length 2	Method GE
Comments Falls				
Photograph Roll 1	Frame 19	UTM (Zone/East/North/ Method)	9 596400	598667 GIS

HABITAT QUALITY

FSZs ☐	Side Chan ☐	Flood/Beave ☐
Trips ☐	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 1 Fr 20 CD 2110 Im 20 STD D			Site 307, looking downstream at cascade pool habitat.
Roll 1 Fr 21 CD 2110 Im 21 STD U			Site 307, looking upstream at boulders in stream.
Roll 1 Fr 19 CD 2110 Im 19 STD U			Site 307, looking upstream at falls, 1.9m.

WILDLIFE

COMMENTS

Form	Section	Comments
SITE	CHANNEL	C1, S6/S4
SITE	CHANNEL	C2, Gradient prevents u/s access
SITE	SITE CARD	C6, FC# 5985

FDIS Fish Form

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

Reach # 3.0

ILP # 1276

ILP Map # 93L.003

Project Name Morice River Fish Inventory - 1999

Project Code 1710

Lake / Stream	S	SITE / METHOD				Waterbody ID	
Permit	34770-20	Date:	1999/08/11	To:	1999/08/11	Crew:	JA/JD
		Resample ☐					

Site	NID MAP	NID	UTM:Zone/East/North/	Mthd	MTD/NO	Temp	Cond	Turbid	Comment
307	93L.003	40007	9 596585 5986333	EF	1	8.0	50	C	

GEAR SETTINGS							
Site	MTD/NO	H/P	Date In	Time In	Date Out	Time Out	Comment
307	EF	1	1	1999/08/11	07:50	1999/08/11	09:16

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

ELECTROFISHER SPECIFICATIONS												
Site	MTD/NO	H/P	Encl	Sec.	Length	Width	Volts	Hz	Pulse	Make	Model	
307	EF	1	1	O	294	400.0	1.5	600	60	6	SR	12 B

FISH SUMMARY										
Site	MTD/NO	H/P	Species	Stage	Age	Total #	Lgth (Min/Max)	Activity	Comment	
307	EF	1	1	RB	J	1+	4	58	82	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
307	EF	1	1	RB	58	U	U					
307	EF	1	1	RB	67	U	U					
307	EF	1	1	RB	62	U	U					
307	EF	1	1	RB	73	U	U					

COMMENTS												
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Photo #: 1 - 20
Site 307, looking downstream at cascade pool habitat.



Photo #: 1 - 21
Site 307, looking upstream at boulders in stream.



Photo #: 1 - 19
Site 307, looking upstream at falls, 1.9m.

Site/Reach Card

Watershed Code 460-600600-64400-18300-0720-0000-000-000-000-000-000

Reach 2.0

Site # 308

Project Name Morice River Fish Inventory - 1999

Project Code 1710

REACH ATTRIBUTES									
Length (km)	.90	Elevation (m): upstream	1160	downstream	935	UTM (Zone/East/North/ method)	Sample Type B		
Gradient (%)	25.0	Order	2	Magnitude	2	BGC Zone	ESSF	9	598767 5987197 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	Entrenched		Exposed/Eroded		NONE		Width (m)		
Coupling	Coupled		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 ☐ (D)iscontinuous ☒ N		

SITE									
Gazetted Name					Local Name	Unnamed			
Survey Date	1999/08/11	Time	09:40	Agency:	C151				
Crew	JAJD	Access	V4	MAP UTM (Zone/East/North/Method)	9	599406	5986761	GIS	
Site Length (m)	200	Method	NS	Fish Card	☒ Incomplete ☐	NID Map	93L.003	NID # 40008	

CHANNEL									
Channel Widths (m)	2.4	2.6	2.4	2.1	2.6	2.1	Average	Method(s)	
Wetted Widths (m)						0.5	1.0	0.7	MS
Resid. Pool Depths (m)						0.21	0.20	0.00	MS
No Vis.Ch.	☐	Dewatered	☐	Gradients (%)			25.0	30.0	33.0
Intermittent	☒	Tributaries	☐	Bankfull Depth (m)			0.4	0.3	0.3
						27.2	C, C		
						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	Dominant	None	None	Sub-Dominant	Trace	
Crown Closure	41-70%	LEFT BANK				RIGHT BANK			
Instream Vegetation		Shape V - shaped (steep sloping or vertical)				Shape V - shaped (steep sloping or vertical)			
☐ 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	8	Method	T3	pH	6.9	Method	P1	EMS #	
Conductivity	40	Method	S3	Turbidity	☐ Turbid ☐ Medium ☐ Light ☒ Clear	Method GE			

MORPHOLOGY									
BED	Dominant Boulders				D95(cm) (only 5%larger)		60		
MATERIAL	Subdominant Cobble				D (cm) (moveable)		30		
Channel Pattern	Straight				Morphology Code		Bars		
Coupling	Coupled				CP		☐ None ☐ Mid ☐ Side ☐ Span ☐ Diag. ☐ Braid		
Confinement	Confined								
Islands									
Abandoned channels	☐ B1	SWD	☐ D1	Extensive riffles	☐ C1	Homog. bed	☐ S1		

Site/Reach Card

Watershed Code 460-600600-64400-18300-0720-0000-000-000-000-000-000

Reach 2.0

Site # 308

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	Very poor rearing habitat
OverWinter Habitat	No overwintering habitat

PHOTO DOCUMENTATION

Film	Compact Disc	Lens / Dir.	Comments
Roll 1 Fr 22 CD 2110 Im 22 STD D			Site 308, looking downstream at Jesse on left side of stream.
Roll 1 Fr 23 CD 2110 Im 23 STD U			Site 308. looking upstream at alder overstream vegetation.

WILDLIFE

COMMENT

Form	Section	Comments
SITE	CHANNEL	C1, S6
SITE	CHANNEL	C2, Gradient and NFC
SITE	SITE CARD	C6, FC# 15989

FDIS Fish Form

Watershed Code 460-600600-64400-18300-0720-0000-000-000-000-000-000

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:	1999/08/11	To:	1999/08/11	Crew:	JD/JA	Resample ☐				
Site	NID MAP	NID	UTM:Zone/East/North/ Mthd		MTD/NO	Temp	Cond	Turbid	Comment			
308	93L.003	40008	9	599406	5986761	EF	1	8.0	50	C		
GEAR SETTINGS												
Site	MTD/NO	H/P	Date In	Time In	Date Out	Time Out	Comment					
308	EF	1	1	1999/08/11	09:40	1999/08/11	10:45					
NET/TRAP SPECIFICATIONS												
ELECTROFISHER SPECIFICATIONS												
Site	MTD/NO	H/P	Encl	Sec.	Length	Width	Volts	Hz	Pulse	Make	Model	
308	EF	1	1	O	145	200.0	2.1	600	60	6	SR	12-B
FISH SUMMARY												
Site	MTD/NO	H/P	Species	Stage	Age	Total #	Lgth (Min/Max)	Activity	Comment			
308	EF	1	1	NFC		0						
INDIVIDUAL FISH DATA												
COMMENTS												



Photo #: 1 - 22
Site 308, looking downstream at Jesse on left side of stream.



Photo #: 1 - 23
Site 308, looking upstream at alder overstream vegetation.

Site/Reach Card

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

Reach 2.0

ILP # 1231

Site # 309

ILP Map # 93L.003

Project Name Morice River Fish Inventory - 1999

Project Code 1710

REACH ATTRIBUTES										Sample Type	B	
Length (km)	.48	Elevation (m): upstream	925	downstream	834	UTM (Zone/East/North/ method)						
Gradient (%)	19.0	Order	1	Magnitude	1	BGC Zone	ESSF	9	599809	598691	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	1999/08/11	Time	11:00	Agency:	C151					
Crew	JA/JD	Access	V4	MAP UTM (Zone/East/North/Method)	9	600094	5986640	GIS		
Site Length (m)	300	Method	HC	Fish Card	☐ Incomplete	☐	NID Map	93L.003	NID #	40009

CHANNEL										
Channel Widths (m)	1.1	1.1	1.3	1.4	1.2	1.1	Average	Method(s)		
Wetted Widths (m)			0.4	0.4	0.2	0.2	1.2	MS		
Resid. Pool Depths (m)			0.08	0.11	0.15	0.06	0.3	MS		
							0.10	MS		
No Vis.Ch.	☐	Dewatered	☐	Gradients (%)	10.0	15.0	12.0	10.0	11.7	C, C
Intermittent	☒	Tributaries	☐	Bankfull Depth (m)	0.3	0.3	0.4		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	ub-Dominant	ub-Dominant	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. 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	8	Methoc	T3	pH	4.0	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)	10				
Channel Pattern	Irregular, Wandering			Morphology Code	CP				
Coupling	Partially Coupled			Bars	☒ None ☐ Mid				
Confinement	Frequently Confined				☐ Side ☐ Span				
Islands	None				☐ Diag. ☐ Braid				

Site/Reach Card

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

Reach 2.0

ILP # 1231

Site # 309

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 CV	Height 1.0	Method GE	Length 14	Method GE
Comments CV well placed				
Photograph Roll 1	Frame 24	UTM (Zone/East/North/ Method)	9 600009	598670 GIS

HABITAT QUALITY

FSZs	Side Chan ☒	Flood/Beave ☒
Trips ☒	Flood Cha ☒	Sloug ☒

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

PHOTO DOCUMENTATION

Film	Compact Disc	Lens / Dir.	Comments
Roll 2 Fr 1 CD 2110 Im 26 STD U	Site 309, looking upstream at moss covered rocks.		
Roll 2 Fr 2 CD 2110 Im 27 STD D	Site 309, looking downstream with crew member in photo.		
Roll 1 Fr 24 CD 2110 Im 24 STD NS	Site 309, culvert (1000m) well placed.		

WILDLIFE

COMMENTS

Form	Section	Comments
SITE	CHANNEL	C1, S6
SITE	CHANNEL	C2, gradient 42% for 60m prevent u/s migration of fish from Nanika R.
SITE	SITE CARD	C6, FC# 15988



Photo #: 2 - 2
Site 309, looking downstream with crew member in photo.



Photo #: 2 - 1
Site 309, looking upstream at moss covered rocks.



Photo #: 1 - 24
Site 309, culvert (1000m) well placed.

Site/Reach Card

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

Reach 2.0

ILP # 1227

Site # 310

ILP Map # 93L.003

Project Name Morice River Fish Inventory - 1999

Project Code 1710

REACH ATTRIBUTES										Sample Type		
Length (km)	.55	Elevation (m): upstrea	1042	downstream	900	UTM (Zone/East/North/ method)						
Gradient (%)	25.8	Order	1	Magnitude	1	BGC Zone	ESSF	9	600148	598768	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	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	1999/08/11	Time	11:40	Agency:	C151						
Crew	JA/JD	Access	V4	MAP UTM (Zone/East/North/Method)	9	600517	5987597	GIS			
Site Length (m)	200	Method	HC	Fish Card	☐ Incomplete	☐	NID Map	93L.003	NID #	40010	

CHANNEL

No Visible Channe ☒

Gradient(s) (%)

Vegetation

Veg. Stage

FEATURE

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

Name	Comments
Other	No visible channel - no potential fish habitat

PHOTO DOCUMENTATION

Film	Compact Disc	Lens / Dir.	Comments
Roll 2	Fr 3 CD 2110	Im 28 STD D	Site 310, looking downstream at vegetated gully, 20%.

COMMENT

Form	Section	Comments
SITE	CHANNEL	C1, NVC
SITE	CHANNEL	C2, Vegetated gully- some small sections of surface scour (2m) no definable channel.
SITE	SITE CARD	C6, no fish form



Photo #: 2 - 3
Site 310, looking downstream at vegetated gully, 20%.

Site/Reach Card

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

Reach 2.0

ILP # 1220

Site # 311

ILP Map # 93L.003

Project Name Morice River Fish Inventory - 1999

Project Code 1710

REACH ATTRIBUTES

Sample Type B

Length (km) .64 Elevation (m): upstream 910 downstream 820 UTM (Zone/East/North/ method)
 Gradient (%) 14.1 Order 1 Magnitude 1 BGC Zone SBS 9 602053 598968 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 Deciduous Valley Flat No valley flat on either bank (C)ontinuous ☒ N
 (D)iscontinuous ☐

SITE

Gazetted Name Local Name Unnamed
 Survey Date 1999/08/11 Time 13:10 Agency: C151
 Crew JAJD Access V4 MAP UTM (Zone/East/North/Method) 9 602570 5989894 GIS
 Site Length (m) 300 Method NS Fish Card ☒ Incomplete ☐ NID Map 93L.003 NID # 40011

CHANNEL

							Average	Method(s)
Channel Widths (m)	0.9	0.8	0.9	1.0	0.8	1.0	0.9	MS
Wetted Widths (m)	0.4	0.5	0.4	0.6	0.7	0.9	0.6	MS
Resid. Pool Depths (m)	0.04	0.06	0.10	0.07	0.08	0.13	0.08	MS

No Vis.Ch. ☐	Dewatered ☐	Gradients (%)	10.0	12.0	11.0	8.0	10.2	C, C
Intermittent ☐	Tributaries ☐	Bankfull Depth (m)	0.2	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	
Trace	Trace	Trace	Trace	None	Dominant	ub-Dominant	

Crown Closure
 1-20%

Instream Vegetation
☐ None ☒ Moss
☐ Algae ☒ Vasc.

LEFT BANK

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

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

RIGHT BANK

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

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

WATER

Temperature 8 Method T3 pH 6.9 Method P1 EMS #
 Conductivity 40 Method S3 Turbidity ☐ Turbid ☐ Medium ☐ Light ☒ Clear Method GE

MORPHOLOGY

BED Dominant Cobble D95(cm) (only 5% larger) 26
 MATERIAL Subdominant Gravels D (cm) (moveable) 5

Channel Pattern Irregular, Wandering
 Coupling Partially Coupled
 Confinement Frequently 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

ILP # 1220

Site # 311

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 CV Height 1.4 Method GE Length 15 Method GE

Comments Perched 2m

Photograph Roll 2 Frame 4 UTM (Zone/East/North/ Method) 9 602486 598989 GIS

HABITAT QUALITY

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

Name	Comments
Rearing Habitat	Poor rearing habitat - ephemeral stream, lack of pool habitat.
Spawning Habitat	Poor spawning habitat- channel is vegetated and suitable flows not present.
OverWinter Habitat	No overwintering habitat.

PHOTO DOCUMENTATION

Film	Compact Disc	Lens / Dir.	Comments
Roll 2 Fr 5 CD 2110 Im 30 STD U	Site 311, looking upstream at ferns and shrubs covering channel.		
Roll 2 Fr 6 CD 2110 Im 31 STD D	Site 311, cobble/gravel substrates.		
Roll 2 Fr 4 CD 2110 Im 29 STD U	Site 311, looking upstream at culvert perched 2m cv (1.4m).		

WILDLIFE

COMMENTS

Form	Section	Comments
SITE	CHANNEL	C1, S6
SITE	CHANNEL	C2, No connection to Nanika River. Channel fans out in reach 1. No distinct connection
SITE	SITE CARD	C6, FC# 015986

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

ILP # 1220

Project Code 1710

Lake / Stream / S			SITE / METHOD								Waterbody ID	
Permit	34770-20		Date: 1999/08/11		To: 1999/08/11		Crew: JA/JD		Resample ☐			
Site	NID	MAP	NID	UTM:Zone/East/North/ Mthd			MTD/NO	Temp	Cond	Turbid	Comment	
311	93L.003		40011	9	602570	5989894	EF	1	8.0	40	C	
GEAR SETTINGS												
Site	MTD/NO	H/P	Date In	Time In	Date Out	Time Out	Comment					
311	EF	1	1	1999/08/11	13:10	1999/08/11	14:10					
NET/TRAP SPECIFICATIONS												
ELECTROFISHER SPECIFICATIONS												
Site	MTD/NO	H/P	Encl	Sec.	Length	Width	Volts	Hz	Pulse	Make	Model	
311	EF	1	1	O	236	300.0	0.8	0600	60	6	SR 12-B	
FISH SUMMARY												
Site	MTD/NO	H/P	Species	Stage	Age	Total #	Lgth (Min/Max)	Activity	Comment			
311	EF	1	1	NFC		0						
INDIVIDUAL FISH DATA												
COMMENTS												



Photo #: 2 - 4
Site 311, looking upstream at culvert perched 2m CV (1.4m).



Photo #: 2 - 5
Site 311, looking upstream at ferns and shrubs covering channel.



Photo #: 2 - 6
Site 311, cobble/gravel substrates.

Site/Reach Card

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

Reach 3.0

ILP # 1217

Site # 312

ILP Map # 93L.003

Project Name Morice River Fish Inventory - 1999

Project Code 1710

REACH ATTRIBUTES										Sample Type	R	
Length (km)	.29	Elevation (m): upstream	820	downstream	811	UTM (Zone/East/North/ method)						
Gradient (%)	3.1	Order	1	Magnitude	1	BGC Zone	SBS	9	602556	599014	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	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	1999/09/11	Time	14:30	Agency:	C151						
Crew	JD/JA	Access	V4	MAP UTM (Zone/East/North/Method)	9	602565	5990354	GIS			
Site Length (m)	290	Method	HC	Fish Card	☒ Incomplete ☐	NID Map	93L.003	NID #	40012		

CHANNEL										
Channel Widths (m)	0.5	0.4	0.4	0.5	0.6	0.4	Average	0.5	Method(s)	MS
Wetted Widths (m)	0.3	0.3	0.3	0.2	0.3	0.3		0.3		MS
Resid. Pool Depths (m)	0.05	0.06	0.08	0.11	0.07	0.13		0.08		MS
No Vis.Ch.	☐	Dewatered	☐	Gradients (%)	3.0	4.0	2.0	2.5	2.9	C, C
Intermittent	☐	Tributaries	☐	Bankfull Depth (m)	0.2	0.2	0.3		0.2	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										
☐ None ☒ Moss										
☐ Algae ☒ Vasc.										
LEFT BANK	RIGHT BANK									
Shape V - shaped (steep sloping or vertical)	Shape Overhanging bank									
Riparian Veg. Shrubs	Riparian Veg. Deciduous									
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	10	Methoc	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)	10			
MATERIAL	Subdominant Gravels					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

Reach 3.0

ILP # 1217

Site # 312

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 CV	Height 1.0	Method GE	Length 14	Method GE
Comments				
Photograph	Roll 2	Frame 7	UTM (Zone/East/North/ Method)	9 602570 599022 GIS

HABITAT QUALITY

FSZs	Side Chan ☒	Flood/Beave ☒
Trips ☒	Flood Cha ☒	Sloug ☒

Name	Comments
Rearing Habitat	poor rearing habitat, ephemeral drainage, adequate pools lacking.
Spawning Habitat	poor spawning habitat, vegetated channel.
OverWinter Habitat	no pools, no overwintering.

PHOTO DOCUMENTATION

Film	Compact Disc	Lens / Dir.	Comments
Roll 2 Fr 8 CD 2110 Im 33 STD U	Site 312, looking upstream at a heavily vegetated channel.		
Roll 2 Fr 7 CD 2110 Im 32 STD U	Site 312, looking upstream at a culvert crossing.		

WILDLIFE

COMMENTS

Form	Section	Comments
SITE	CHANNEL	C1, S6.
SITE	CHANNEL	C2, no connectivity with Nanika R., ephemeral stream.
SITE	CHANNEL	C6, FC # 15990
SITE	SITE CARD	actual site length = 300 m

FDIS Fish Form

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

Reach # 3.0

ILP # 1219

ILP Map # 93L.003

Project Name Morice River Fish Inventory - 1999

Project Code 1710

Lake/Stream S		SITE/METHOD		Waterbody ID	
Permit	34770-20	Date:	1999/08/11	To:	1999/08/11
		Crew:	JA/JD		
Site	NID MAP	NID	UTM:Zone/East/North/ Mthd	MTD/NO	Temp Cond Turbid Comment
312	93L.003	40012	9 602565 5990354	EF 1	10.0 50 C
GEAR SETTINGS					
Site	MTD/NO	H/P	Date In	Time In	Date Out Time Out Comment
312	EF 1	1	1999/08/11	14:30	1999/08/11 15:20
NET/TRAP SPECIFICATIONS					
ELECTROFISHER SPECIFICATIONS					
Site	MTD/NO	H/P	Encl	Sec.	Length Width Volts Hz Pulse Make Model
312	EF 1	1	O	269	300.0 0.4 600 60 6 SR 12 B
FISH SUMMARY					
Site	MTD/NO	H/P	Species	Stage	Age Total # Lgth (Min/Max) Activity Comment
312	EF	1 1	NFC		0
INDIVIDUAL FISH DATA					
COMMENTS					



Photo #: 2 - 7
Site 312, looking upstream at a culvert crossing.



Photo #: 2 - 8
Site 312, looking upstream at a heavily vegetated channel.

Site/Reach Card

Watershed Cod 460-600600-63200-09800-0000-0000-000-000-000-000-000

Reach 7.0

Site # 313

Project Name Morice River Fish Inventory - 1999

Project Code 1710

REACH ATTRIBUTES									
Length (km)	1.20	Elevation (m): upstrea	841	downstream	835	UTM (Zone/East/North/ method)	Sample Type R		
Gradient (%)	0.5	Order 1	Magnitude 1	BGC Zone	SBS	9	607227	599096	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	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	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	07:45	Agency	C151				
Crew	JA/JD	Access	V4	MAP UTM (Zone/East/North/Method)	9	606165	5990972	GIS	
Site Length (m)	200	Method	NS	Fish Card	☐	Incomplete	☐	NID Map	93L.004
								NID #	40013

CHANNEL

No Visible Channe ☒

Gradient(s) (%)

Vegetation

Veg. Stage

FEATURE

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

Name	Comments
Other	No potential fish habitat

PHOTO DOCUMENTATION

Film	Compact Disc	Lens / Dir.	Comments
Roll 2	Fr 9 CD 2110	Im 34 STD U	Site 313, looking upstream - no visible channel.

COMMENT

Form	Section	Comments
SITE	CHANNEL	C1, NVC
SITE	CHANNEL	C2, vegetated seepage, no evidence of surface scour
SITE	SITE CARD	C6, no fish card



Photo #: 2 - 9
Site 313, looking upstream - no visible channel.

Site/Reach Card

Watershed Code 460-600600-64400-11700-5110-0000-000-000-000-000-000

Reach 3.0

Site # 314

Project Name Morice River Fish Inventory - 1999

Project Code 1710

REACH ATTRIBUTES									
Length (km)	.68	Elevation (m): upstream	980	downstream	920	UTM (Zone/East/North/ method)			
Gradient (%)	8.8	Order	3	Magnitude	10	BGC Zone	SBS	9	605546 5986007 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	Deciduous		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	09:15	Agency:	C151				
Crew	JAJD	Access	V4	MAP UTM (Zone/East/North/Method)	9	605487	5986458	GIS	
Site Length (m)	400	Method	HC	Fish Card	☒ Incomplete	☐	NID Map	93L.004	NID # 40014

CHANNEL											
Channel Widths (m)	3.2	3.6	4.2	2.9	3.7	2.9	Average	3.4	Method(s)	T	
Wetted Widths (m)	1.4	1.6	1.8	2.0	3.2	3.0		2.2		T	
Resid. Pool Depths (m)	0.36	0.41	0.52	0.39	0.51	0.36		0.42		T	
No Vis.Ch.	☐	Dewatered	☐	Gradients (%)		6.0	8.0	7.0	6.0	6.7	C, C
Intermittent	☐	Tributaries	☐	Bankfull Depth (m)		0.6	0.6	0.5	0.6	0.6	MS

Stage	☐ Low	COVER -		Total	Abundant	LWD	Abundant	Dist.	Evenly Distributed
	☒ Med.	SWD	LWD	Boulder	Cutbank	Deep Pool	Over Veg	Instream Veg	
	☐ High	Sub-Dominant	Dominant	Sub-Dominant	Trace	Trace	Trace	None	
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. 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	8	Method	T3	pH	7.1	Method	P1	EMS #	
Conductivity	30	Method	S3	Turbidity	☐ Turbid ☒ Medium ☐ Light ☐ Clear	Method	GE		

MORPHOLOGY									
BED	Dominant	Cobble	D95(cm) (only 5% larger)		50				
MATERIAL	Subdominant	Gravels	D (cm) (moveable)		40				
Channel Pattern	Irregular, Wandering		Morphology Code		RP				
Coupling	Partially Coupled				Bars				
Confinement	Occasionally Confined				☐ None ☐ Mid ☒ Side ☐ Span ☐ Diag. ☐ Braid				
Islands	None								
Abandoned channels	☐ B1	SWD	☐ D1	Extensive riffles	☐ C1	Homog. bed	☐ S1		

Site/Reach Card

Watershed Code 460-600600-64400-11700-5110-0000-000-000-000-000-000

Reach 3.0

Site # 314

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	Fair rearing habitat - limited by extreme bedload
Spawning Habitat	Poor spawning habitat - limited by extreme bedload
OverWinter Habitat	No overwintering habitat - majority of pools are filled in with gravel

PHOTO DOCUMENTATION

Film	Compact Disc	Lens / Dir.	Comments
Roll 2 Fr 10 CD 2110 Im 35 STD U			Site 314, looking upstream at spanning LWD.
Roll 2 Fr 11 CD 2110 Im 36 STD D			Site 314, looking downstream at extremely disturbed channel.

WILDLIFE

COMMENT

Form	Section	Comments
SITE	CHANNEL	C1, S3
SITE	CHANNEL	C2, CT captured
SITE	SITE CARD	C6, FC# 15993

FDIS Fish Form

Watershed Code 460-600600-64400-11700-5110-0000-000-000-000-000-000

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: 1999/08/12 To: 1999/08/14 Crew: JA/JD Resample ☐

Site	NID MAP	NID	UTM:Zone/East/North/	Mthd	MTD/NO	Temp	Cond	Turbid	Comment
314	93L.004	40014	9 605487 5986458		EF 1	8.0	30	M	
314	93L.004	40014	9 605487 5986458		MT 1	8.0	30	M	
314	93L.004	40014	9 605487 5986458		MT 2	8.0	30	M	

GEAR SETTINGS							
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Site	MTD/NO	H/P	Date In	Time In	Date Out	Time Out	Comment
314	EF 1	1	1999/08/12	09:15	1999/08/12	10:00	
314	MT 1	1	1999/08/13	07:11	1999/08/14	07:00	
314	MT 2	1	1999/08/13	07:15	1999/08/14	07:02	

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

ELECTROFISHER SPECIFICATIONS											
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Site	MTD/NO	H/P	Encl	Sec.	Length	Width	Volts	Hz	Pulse	Make	Model
314	EF 1	1	O	359	400.0	3.2	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
314	EF 1	1	NFC			0			
314	MT 1	1	NFC			0			
314	MT 2	1	CT	J		1	72	72	R

INDIVIDUAL FISH DATA												
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		Length		Weight		Age		Genetic		Photograph		Comment
Site	MTD/NO	H/P	Species	(mm)	(g)	Sex	Mat	Str / Smpl# / Age	Vch#	Str/ Smpl#	Roll Fr.	
314	MT 2	1	CT	72		U	U				2 36	Caught below bridge

COMMENTS												
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Photo #: 2 - 10
Site 314, looking upstream at spanning LWD.



Photo #: 2 - 36
Site 314, photo of a 72 mm cutthroat trout caught below bridge.



Photo #: 2 - 11
Site 314, looking downstream at extremely disturbed channel.

Site/Reach Card

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

Reach 1.0

ILP # 1011

Site # 315

ILP Map # 93L.004

Project Name Morice River Fish Inventory - 1999

Project Code 1710

REACH ATTRIBUTES										Sample Type		
Length (km)	.16	Elevation (m): upstream	792	downstream	791	UTM (Zone/East/North/ method)						
Gradient (%)	0.6	Order	1	Magnitude	1	BGC Zone	SBS	9	605755	599366	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	Mixed C/D			Valley Flat	No valley flat on either bank				(C)ontinuous	☐		
									(D)iscontinuous	☒		

SITE										
Gazetted Name	Local Name Unnamed									
Survey Date	1999/08/12	Time	11:15	Agency:	C151					
Crew	JA/JD	Access	V4	MAP UTM (Zone/East/North/Method)	9	605720	5993708	GIS		
Site Length (m)	100	Method	NS	Fish Card	☒ Incomplete	☐	NID Map	93L.004	NID #	40015

CHANNEL										
Channel Widths (m)	1.4	1.6	1.4	1.4	1.4	1.6	Average	1.5	Method(s)	MS
Wetted Widths (m)	1.4	1.5	1.3	1.2	1.2	1.4		1.3		MS
Resid. Pool Depths (m)	0.45	0.36	0.41	0.56	0.61	0.42		0.47		MS
No Vis.Ch.	☐	Dewatered	☐	Gradients (%)	1.0	1.0	1.0	1.0	1.0	C, C
Intermittent	☐	Tributaries	☐	Bankfull Depth (m)	0.6	0.5	0.6		0.6	MS

Stage	☐ Low	COVER -		Total	Abundant	LWD	None	Dist.	Not Specified
	☐ Med.	SWD	LWD	Boulder	Cutbank	Deep Pool	Over Veg	Instream Veg	
	☒ High	None	None	None	ub-Dominant	Trace	Dominant	ub-Dominant	
Crown Closure	0%	LEFT BANK				RIGHT BANK			
Instream Vegetation		Shape Overhanging bank				Shape Overhanging bank			
☐ None	☐ Moss	Riparian Veg. Shrubs				Riparian Veg. Grass			
☐ Algae	☒ Vasc.	Riparian Stage Shrub/herb stage				Riparian Stage Non-vegetated or initial stage f			
		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	P1	EMS #		
Conductivity	40	Method	S3	Turbidity	☐ Turbid	☐ Medium	☐ Light	☒ Clear	Method	GE

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

Site/Reach Card

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

Reach 1.0

ILP # 1011

Site # 315

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 .3 Method GE Length 8 Method GE
Comments Inlet pinched in
Photograph Roll 2 Frame 14 UTM (Zone/East/North/ Method) 9 605678 599374 GIS

HABITAT QUALITY

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

Name Comments
Spawning Habitat No spawning habitat, no substrate suitable for spawning
Rearing Habitat Poor rearing habitat, ponded water only
OverWinter Habitat Overwintering habitat present in u/s wetland

PHOTO DOCUMENTATION

Film	Compact Disc	Lens / Dir.	Comments
Roll 2	Fr 12 CD 2110	Im 37 STD D	Site 315, looking downstream towards beaver pond.
Roll 2	Fr 13 CD 2110	Im 38 STD U	Site 315, looking upstream at crew member.
Roll 2	Fr 14 CD 2110	Im 39 STD U	Site 315, looking upstream at culvert 300mm, pinched at outlet.

WILDLIFE

COMMENTS

Form	Section	Comments
SITE	CHANNEL	C1, S4
SITE	CHANNEL	C2, CAS, LSU captured. Sport fish may utilize this reach at some periods of high water
SITE	SITE CARD	C6, FC# 15992

FDIS Fish Form

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

Reach # 1.0

ILP # 1011

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: 1999/08/12 To: 1999/08/14 Crew: JA/JD Resample ☐

Site	NID MAP	NID	UTM:Zone/East/North/ Mthd	MTD/NO	Temp	Cond	Turbid	Comment
315	93L.004	40015	9 605720 5993708	EF 1	10.0	40	C	
315	93L.004	40015	9 605720 5993708	MT 1	10.0	40	C	
315	93L.004	40015	9 605720 5993708	MT 2	10.0	40	C	

GEAR SETTINGS

Site	MTD/NO	H/P	Date In	Time In	Date Out	Time Out	Comment
315	EF 1	1	1999/08/12	11:15	1999/08/12	12:00	
315	MT 1	1	1999/08/13	11:15	1999/08/14	08:45	
315	MT 2	1	1999/08/13	11:15	1999/08/14	08:46	

NET/TRAP SPECIFICATIONS

Site	MTD/NO	H/P	Net Type	Length	Depth	Mesh	Setting	Habitat
315	MT 1	1			1.2		BT	NA
315	MT 2	1			0.6		BT	NA

ELECTROFISHER SPECIFICATIONS

Site	MTD/NO	H/P	Encl	Sec.	Length	Width	Volts	Hz	Pulse	Make	Model
315	EF 1	1	O	200	100.0	1.4	600	60	6	SR	12 B

FISH SUMMARY

Site	MTD/NO	H/P	Species	Stage	Age	Total #	Lgth (Min/Max)	Activity	Comment
315	EF 1	1	NFC			0			
315	MT 1	1	NFC			0			
315	MT 2	1	CAS	J		1	86 86	R	
315	MT 2	1	LSU	J		1	64 64	R	

INDIVIDUAL FISH DATA

				Length	Weight	Age				Genetic	Photograph	
Site	MTD/NO	H/P	Species	(mm)	(g)	Sex	Mat	Str / Smpl# / Age	Vch#	Str/ Smpl#	Roll Fr.	Comment
315	MT 2	1	CAS	86		U	U					
315	MT 2	1	LSU	64		U	U					

COMMENTS



Photo #: 2 - 12
Site 315, looking downstream towards beaver pond.



Photo #: 2 - 13
Site 315, looking upstream at crew member.



Photo #: 2 - 14

Site 315, looking upstream at culvert 300 mm, pinched at outlet.

Site/Reach Card

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

Reach 8.0

Site # 316

Project Name Morice River Fish Inventory - 1999

Project Code 1710

REACH ATTRIBUTES									
Length (km)	.62	Elevation (m): upstream	785	downstream	778	UTM (Zone/East/North/ method)	Sample Type R		
Gradient (%)	1.1	Order	4	Magnitude	38	BGC Zone	SBS	9	605122 5994791 GIS
Setting	Valley Floor		Bars		☐ None ☐ Side ☐ Diagonal ☐ Mid ☐ Span ☐ Braid				
Open water	A	Wetland	☐		Mass Movement	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 ☐ (D)iscontinuous ☒		

SITE									
Gazetted Name	MCBRIDE CREEK				Local Name				
Survey Date	1999/08/12	Time	12:08	Agency:	C151				
Crew	JAJD	Access	V2	MAP UTM (Zone/East/North/Method)	9	605069	5994909	GIS	
Site Length (m)	300	Method	NS	Fish Card	☒ Incomplete ☐	NID Map	93L.004	NID #	40016

CHANNEL										
Channel Widths (m)	4.6	5.4	6.2	6.4	4.5	5.2	Average	5.4	Method(s)	T
Wetted Widths (m)	4.0	4.0	4.7	4.2	3.2	4.2		4.0		T
Resid. Pool Depths (m)	0.45	0.62	0.51	0.46	0.36	0.53		0.49		T
No Vis.Ch. ☐	Dewatered ☐	Gradients (%)		1.5	1.0	1.5	1.0	1.2	C, C	
Intermittent ☐	Tributaries ☐	Bankfull Depth (m)		1.0	1.0	1.0	1.0	1.0	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	Sub-Dominant	Sub-Dominant	Sub-Dominant

Crown Closure
1-20%

Instream Vegetation
☐ None ☒ Moss
☐ Algae ☒ Vasc.

LEFT BANK
 Shape Overhanging bank
 Riparian Veg. Deciduous
 Riparian Stage Pole-sapling stage
 Texture ☒ Fines ☒ Gravel ☐ Cobble
☐ Boulder ☐ Rock ☐ Man Made

RIGHT BANK
 Shape Sloping (gradual or shallow sloping)
 Riparian Veg. Deciduous
 Riparian Stage Pole-sapling stage
 Texture ☒ Fines ☒ Gravel ☐ Cobble
☐ Boulder ☐ Rock ☐ Man Made

WATER									
Temperature	10	Method	T3	pH	7.1	Method	P1	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	Irregular Meanders		Morphology Code		RP				
Coupling	Decoupled		Bars		☒ None ☐ Mid ☐ Side ☐ Span ☐ Diag. ☐ Braid				
Confinement	Occasionally Confined		Abandoned channels		☐ B1 ☐ SWD ☐ D1 ☐ Extensive riffles ☐ C1 ☐ Homog. bed ☐ S1				
Islands	None								

Site/Reach Card

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

Reach 8.0

Site # 316

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 - adequate spawning gravel and flows for most salmonids
Rearing Habitat	Excellent rearing habitat - plenty of cover in diverse pool habitats
OverWinter Habitat	Overwintering habitat present in deep pools

PHOTO DOCUMENTATION

Film	Compact Disc	Lens / Dir.	Comments
Roll 2	Fr 16 CD 2110	lm 41 STD D	Site 316, looking downstream at riffle pool habitat.
Roll 2	Fr 20 CD 2110	lm 45 STD U	Site 316, looking upstream at LWD and Riffle pool habitat.

WILDLIFE

COMMENT

Form	Section	Comments
SITE	CHANNEL	C1, S2
SITE	CHANNEL	C2, Multiple fish species captured
SITE	SITE CARD	C6, FC# 15994

FDIS Fish Form

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

Reach # 8.0

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: 1999/08/12 To: 1999/08/12 Crew: JA/JD Resample ☐

Site	NID MAP	NID	UTM:Zone/East/North/ Mthd	MTD/NO	Temp	Cond	Turbid	Comment
316	93L.004	40016	9 605069 5994909	EF 1	10.0	70	C	

GEAR SETTINGS

Site	MTD/NO	H/P	Date In	Time In	Date Out	Time Out	Comment
316	EF 1	1	1999/08/12	12:08	1999/08/12	13:15	

NET/TRAP SPECIFICATIONS

ELECTROFISHER SPECIFICATIONS

Site	MTD/NO	H/P	Encl	Sec.	Length	Width	Volts	Hz	Pulse	Make	Model
316	EF 1	1	O	496	300.0	5.6	600	60	6	SR	12 B

FISH SUMMARY

Site	MTD/NO	H/P	Species	Stage	Age	Total #	Lgth (Min/Max)	Activity	Comment
316	EF	1	1	CT	J	1	121	121	R
316	EF	1	1	CAS	A	3	82	118	R
316	EF	1	1	RB	F	3	39	44	R
316	EF	1	1	MW	J	1	85	85	R
316	EF	1	1	LSU	J	5	49	87	R
316	EF	1	1	PL	J	2	87	92	R
316	EF	1	1	RB	J	5	58	165	R

INDIVIDUAL FISH DATA

Site	MTD/NO	H/P	Species	Length (mm)	Weight (g)	Sex	Mat	Age	Str / Smpl# / Age	Vch#	Genetic	Str/ Smpl#	Roll Fr.	Comment
316	EF	1	1	CT	121	U	U						2 17	
316	EF	1	1	CAS	118	U	U						2 15	
316	EF	1	1	CAS	82	U	U							
316	EF	1	1	CAS	101	U	U							
316	EF	1	1	RB	39	U	U							
316	EF	1	1	RB	44	U	U							
316	EF	1	1	RB	43	U	U							
316	EF	1	1	MW	85	U	U			10001			2 18	
316	EF	1	1	LSU	87	U	U							
316	EF	1	1	LSU	69	U	U							
316	EF	1	1	LSU	49	U	U							
316	EF	1	1	LSU	52	U	U							
316	EF	1	1	LSU	50	U	U							
316	EF	1	1	PL	92	U	U			10002				
316	EF	1	1	PL	87	U	U						2 19	
316	EF	1	1	CT	87	U	U	SC	1085 1+					
316	EF	1	1	CT	75	U	U							
316	EF	1	1	CT	80	U	U	SC	1086 1+					
316	EF	1	1	CT	77	U	U							
316	EF	1	1	RB	165	U	U	SC	1089 2+					
316	EF	1	1	RB	118	U	U	SC	1090 2+					

FDIS Fish Form

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

Reach # 8.0

ILP #

ILP Map #

Project Name Morice River Fish Inventory - 1999

Project Code 1710

316	EF	1	1	RB	135	U	U	SC	1091	2+
316	EF	1	1	RB	80	U	U	SC	1092	1+
316	EF	1	1	RB	58	U	U	SC	1093	0+

COMMENTS



Photo #: 2 - 16
Site 316, looking downstream at riffle pool habitat.



Photo #: 2 - 20
Site 316, looking upstream at LWD and Riffle pool habitat.



Photo #: 2 - 15
Site 316, photo of a 118 mm sculpin.



Photo #: 2 - 17
Site 316, photo of a 121 mm cutthroat trout.



Photo #: 2 - 18
Site 316, photo of an 85 mm mountain whitefish.

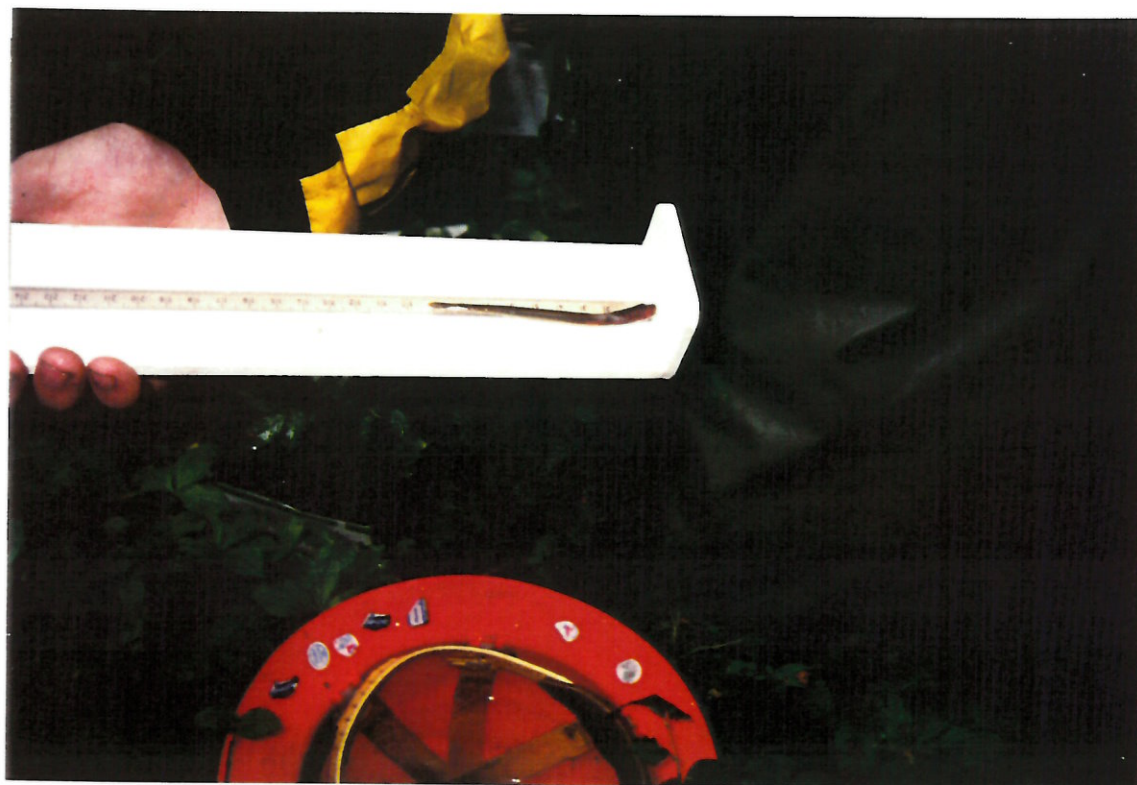


Photo #: 2 - 19
Site 316, photo of an 87 mm pacific lamprey.

Site/Reach Card

Watershed Code 460-600600-63200-29100-0000-0000-000-000-000-000-000

Reach 3.0
Site # 317

Project Name Morice River Fish Inventory - 1999

Project Code 1710

REACH ATTRIBUTES										Sample Type	R	
Length (km)	2.04	Elevation (m): upstream	900	downstream	788	UTM (Zone/East/North/ method)						
Gradient (%)	5.5	Order	1	Magnitude	1	BGC Zone	SBS	9	607710	5995091	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	☐ N		
								(D)iscontinuous				

SITE											
Gazetted Name						Local Name	Unnamed				
Survey Date	1999/08/12	Time	14:30	Agency:	C151						
Crew	JAJD	Access	V4	MAP UTM (Zone/East/North/Method)	9	606985	5994782	GIS			
Site Length (m)	400	Method	HC	Fish Card	☒ Incomplete	☐	NID Map	93L.004	NID #	40017	

CHANNEL										
Channel Widths (m)	0.9	0.9	0.8	0.9	1.2	1.1	Average	1.0	Method(s)	MS
Wetted Widths (m)	0.9	0.7	0.7	0.8	1.1	1.0		0.9		MS
Resid. Pool Depths (m)	0.03	0.04	0.16	0.18	0.12	0.14		0.11		MS
No Vis.Ch.	☐	Dewatered	☐	Gradients (%)	3.0	4.0	5.0	4.0	4.0	C, C
Intermittent	☐	Tributaries	☐	Bankfull Depth (m)	0.2	0.2	0.2	0.2	0.2	MS

Stage	☐ Low	COVER -	Total	Abundant	LWD	Few	Dist.	Evenly Distributed
	☐ Med.	SWD	LWD	Boulder	Cutbank	Deep Pool	Over Veg	Instream Veg
	☒ High	Sub-Dominant	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. Shrubs			
		Riparian Stage Pole-sapling stage			Riparian Stage Shrub/herb stage			
		Texture ☒ Fines ☐ Gravel ☐ Cobble			Texture ☒ Fines ☐ Gravel ☐ Cobble			
		☐ Boulder ☐ Rock ☐ Man Made			☐ Boulder ☐ Rock ☐ Man Made			

WATER									
Temperature	8	Method	T3	pH	6.9	Method	P2	EMS #	
Conductivity	40	Method	S3	Turbidity	☐ Turbid ☐ Medium ☐ Light ☒ Clear	Method	GE		

MORPHOLOGY									
BED	Dominant Gravels	D95(cm) (only 5%larger)	15						
MATERIAL	Subdominant Fines	D (cm) (moveable)	2						
Channel Pattern	Sinuuous	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 460-600600-63200-29100-0000-0000-000-000-000-000-000

Reach 3.0

Site # 317

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 .8	Method GE	Length 10	Method GE	
Comments Culvert inlet					
Photograph	Roll 2	Frame 21	UTM (Zone/East/North/ Method)	9 607255	5994999 GIS

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

Name	Comments
Rearing Habitat	Poor rearing habitat - limited pool habitat
Spawning Habitat	Poor spawning habitat - lack of suitable spawning substrate
OverWinter Habitat	No overwintering habitat

PHOTO DOCUMENTATION							
Film	Compact Disc	Lens / Dir.	Comments				
Roll 2	Fr 22 CD 2110 Im 47	STD U	Site 317, looking upstream at overstream vegetation.				
Roll 2	Fr 23 CD 2110 Im 48	STD D	Site 317, looking downstream at pool habitat.				
Roll 2	Fr 21 CD 2110 Im 46	STD D	Site 317, looking downstream at culvert inlet (800mm).				

WILDLIFE

COMMENT

Form	Section	Comments
SITE	CHANNEL	C1, S4
SITE	CHANNEL	C2, NFC but no barriers identified, suggest resample to confirm fish absence
SITE	SITE CARD	C6, FC# 15997

FDIS Fish Form

Watershed Code 460-600600-63200-29100-0000-0000-000-000-000-000-000

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:	1999/08/12	To:	1999/08/12
				Crew:	JA/JD
Resample ☐					
Site	NID MAP	NID	UTM:Zone/East/North/ Mthd	MTD/NO	Temp
317	93L.004	40017	9 606985 5994782	EF 1	8.0
				Cond	Turbid
				40	C
GEAR SETTINGS					
Site	MTD/NO	H/P	Date In	Time In	Date Out
317	EF 1	1	1999/08/12	14:30	1999/08/12
				15:20	
NET/TRAP SPECIFICATIONS					
ELECTROFISHER SPECIFICATIONS					
Site	MTD/NO	H/P	Encl	Sec.	Length
317	EF 1	1	O	426	400.0
				Width	Volts
				1.0	600
				HZ	Pulse
				60	6
				Make	Model
				SR	12 B
FISH SUMMARY					
Site	MTD/NO	H/P	Species	Stage	Age
317	EF	1	1	NFC	
					Total #
					0
					Lgth (Min/Max)
					Activity
					Comment
INDIVIDUAL FISH DATA					
COMMENTS					



Photo #: 2 - 23
Site 317, looking downstream at pool habitat.



Photo #: 2 - 22
Site 317, looking upstream at overstream vegetation.



Photo #: 2 - 21
Site 317, looking downstream at culvert inlet (800 mm).

Site/Reach Card

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

Reach 2.0

ILP # 1420

Site # 318

ILP Map # 93L.004

Project Name Morice River Fish Inventory - 1999

Project Code 1710

REACH ATTRIBUTES										Sample Type	
Length (km)	1.24	Elevation (m): upstream	1130	downstream	940	UTM (Zone/East/North/ method)					
Gradient (%)	15.3	Order	1	Magnitude	1	BGC Zone	ESSF	9	607869	598589	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 (D)iscontinuous	☒ N

SITE										
Gazetted Name	Local Name Unnamed									
Survey Date	1999/08/13	Time	08:20	Agency:	C151					
Crew	JA/JD	Access	V4	MAP UTM (Zone/East/North/Method)	9	607562	5986532	GIS		
Site Length (m)	300	Method	NS	Fish Card	☒ Incomplete ☐	NID Map	93L.004	NID #	40018	

CHANNEL												
Channel Widths (m)	2.3	2.1	3.1	3.1	2.5	2.7	Average	2.6	Method(s)	MS		
Wetted Widths (m)	1.0	1.1	1.1	1.0	1.2	1.3		1.1		MS		
Resid. Pool Depths (m)	0.08	0.24	0.18	0.15	0.16	0.21		0.17		MS		
No Vis.Ch.	☐	Dewatered	☐	Gradients (%)			12.0	13.0	14.0	13.0	13.0	C, C
Intermittent	☐	Tributaries	☐	Bankfull Depth (m)			0.4	0.4	0.4	0.4	0.4	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>Abundant</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>Dominant</td> <td>Trace</td> <td>ub-Dominant</td> <td>None</td> <td>ub-Dominant</td> <td>Trace</td> <td></td> </tr> </tbody> </table>								COVER -		Total	Abundant	LWD	Abundant	Dist.	Evenly Distributed	SWD	LWD	Boulder	Cutbank	Deep Pool	Over Veg	Instream Veg		Trace	Dominant	Trace	ub-Dominant	None	ub-Dominant	Trace	
COVER -		Total	Abundant	LWD	Abundant	Dist.	Evenly Distributed																												
SWD	LWD	Boulder	Cutbank	Deep Pool	Over Veg	Instream Veg																													
Trace	Dominant	Trace	ub-Dominant	None	ub-Dominant	Trace																													
Crown Closure	1-20%			LEFT BANK Shape Overhanging bank Riparian Veg. Shrubs Riparian Stage Shrub/herb stage Texture ☒ Fines ☒ Gravel ☐ Cobble ☐ Boulder ☐ Rock ☐ Man Made				RIGHT BANK Shape Sloping (gradual or shallow sloping) Riparian Veg. Deciduous Riparian Stage Pole-sapling stage Texture ☐ Fines ☒ Gravel ☒ Cobble ☐ Boulder ☐ Rock ☐ Man Made																											
Instream Vegetation	☐ None ☒ Moss ☐ Algae ☐ Vasc.																																		

WATER										
Temperature	8	Methoc	T3	pH	7.6	Method	P1	EMS #		
Conductivity	90	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)			25		
Channel Pattern	Irregular, Wandering								
Coupling	Partially Coupled								
Confinement	Frequently 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 2.0

ILP # 1420

Site # 318

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 BR Height 3.0 Method GE Length 15 Method GE

Comments Bridge in bad shape

Photograph Roll 2 Frame 24 UTM (Zone/East/North/ Method) 9 607604 598634 GIS

HABITAT QUALITYFSZs ☐ Side Chan ☐ Flood/Beave ☐
Tribes ☐ Flood Cha ☐ Sloug ☐

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

PHOTO DOCUMENTATION

Film	Compact Disc	Lens / Dir.	Comments
Roll 2 Fr 25 CD 2110 Im 50 STD U	Site 318, looking upstream at cascades over LWD.		
Roll 2 Fr 26 CD 2110 Im 51 STD D	Site 318, looking downstream at spanning LWD.		
Roll 2 Fr 24 CD 2110 Im 49 STD D	Site 318, looking downstream at bridge in poor shape - erosion.		

WILDLIFE**COMMENTS**

Form	Section	Comments
SITE	CHANNEL	C1, S3
SITE	CHANNEL	C2, NFC but gradient is low enough to allow passage, resample reach 1 for barrier.
SITE	SITE CARD	C6, FC# 15996

FDIS Fish Form

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

Reach # 2.0

ILP # 1420

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: 1999/08/13 To: 1999/08/13 Crew: JA/JD Resample ☒

Site	NID MAP	NID	UTM:Zone/East/North/ Mthd	MTD/NO	Temp	Cond	Turbid	Comment
318	93L.004	40018	9 607562 5986532	EF 1	9.0	90	C	

GEAR SETTINGS

Site	MTD/NO	H/P	Date In	Time In	Date Out	Time Out	Comment
318	EF 1	1	1999/08/13	08:20	1999/08/13	09:30	

NET/TRAP SPECIFICATIONS

ELECTROFISHER SPECIFICATIONS

Site	MTD/NO	H/P	Encl	Sec.	Length	Width	Volts	Hz	Pulse	Make	Model
318	EF 1	1	O	408	300.0	1.6	400	60	6	SR	12-B

FISH SUMMARY

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

INDIVIDUAL FISH DATA

COMMENTS

Section	Comments
WATERBODY	Suggest resampling reach 1 for barriers.



Photo #: 2 - 24
Site 318, looking downstream at bridge in poor shape - erosion.



Photo #: 2 - 26
Site 318, looking downstream at spanning LWD.



Photo #: 2 - 25
Site 318, looking upstream at cascades over LWD.

Site/Reach Card

Watershed Code 460-600600-64400-11700-5660-0000-000-000-000-000-000

Reach 4.0
Site # 319

Project Name Morice River Fish Inventory - 1999

Project Code 1710

REACH ATTRIBUTES									
Length (km)	.80	Elevation (m): upstream	995	downstream	912	UTM (Zone/East/North/ method)	Sample Type B		
Gradient (%)	10.4	Order	2	Magnitude	2	BGC Zone	SBS	9	606150 5986070 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	☐	
							(D)iscontinuous	☒	

SITE									
Gazetted Name					Local Name	Unnamed			
Survey Date	1999/08/12	Time	10:40	Agency:	C151				
Crew	JA/JD	Access	V4	MAP UTM (Zone/East/North/Method)	9	606223	5986210	GIS	
Site Length (m)	300	Method	HC	Fish Card	☒ Incomplete	☐	NID Map	93L.004	NID # 40019

CHANNEL											
Channel Widths (m)	2.7	2.5	2.6	2.4	2.0	2.1	Average	Method(s)			
Wetted Widths (m)	1.5	1.6	1.7	1.1	1.9	1.6	2.4	MS			
Resid. Pool Depths (m)	0.21	0.22	0.23	0.14	0.16	0.17	1.6	MS			
							0.19	MS			
No Vis.Ch.	☐	Dewatered	☐	Gradients (%)		24.0	26.0	18.0	17.0	21.2	C, C
Intermittent	☐	Tributaries	☐	Bankfull Depth (m)		0.6	0.7	0.5	0.6	0.6	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	Trace	Trace		
Crown Closure	1-20%	LEFT BANK				RIGHT BANK				
Instream Vegetation		Shape V - shaped (steep sloping or vertical)				Shape V - shaped (steep sloping or vertical)				
☐ 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	7.8	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)		30				
Channel Pattern	Irregular, Wandering								
Coupling	Partially Coupled								
Confinement	Entrenched								
Islands	None								
Morphology Code					Bars				
CP					☒ None ☐ Mid ☐ Side ☐ Span ☐ Diag. ☐ Braid				
Abandoned channels	☐ B1	SWD	☐ D1	Extensive riffles	☐ C1	Homog. bed	☐ S1		

Site/Reach Card

Watershed Code 460-600600-64400-11700-5660-0000-000-000-000-000-000

Reach 4.0

Site # 319

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 Barrier to u/s fish migration

Photograph Roll 2 Frame 30 UTM (Zone/East/North/ Method) 9 606382 5986771 GIS

HABITAT QUALITY

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

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

PHOTO DOCUMENTATION

Film	Compact Disc	Lens / Dir.	Comments
Roll 2 Fr 27 CD 2110 Im 52 STD U			Site 319, looking upstream at entrenched, eroding banks.
Roll 2 Fr 28 CD 2110 Im 53 STD D			Site 319, looking downstream at LWD overtop of stream banks.
Roll 2 Fr 30 CD 2110 Im 55 STD U			Site 319, looking upstream at barrier to u/s fish migration (1m CV).

WILDLIFE

COMMENT

Form	Section	Comments
SITE	CHANNEL	C1, S3/S6
SITE	CHANNEL	C2, A section of 24% gradient for 60m is a barrier to u/s fish migration
SITE	SITE CARD	C6, FC# 15995

FDIS Fish Form

Watershed Code 460-600600-64400-11700-5660-0000-000-000-000-000-000

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: 1999/08/13 To: 1999/08/13 Crew: JA/JD Resample ☐

Site	NID MAP	NID	UTM:Zone/East/North/	Mthd	MTD/NO	Temp	Cond	Turbid	Comment
319	93L.004	40019	9 606223 5986210		EF 1	10.0	90	C	
319	93L.004	40019	9 606223 5986210		EF 2	10.0	90	C	

GEAR SETTINGS							
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Site	MTD/NO	H/P	Date In	Time In	Date Out	Time Out	Comment
319	EF 1	1	1999/08/13	10:40	1999/08/13	11:45	
319	EF 2	1	1999/08/13	10:40	1999/08/13	11:45	

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
319	EF 1	1	O	363	300.0	2.5	400	60	6	SR	12-B
319	EF 2	1	O	363	300.0	2.5	400	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
319	EF 1	1	NFC			0			below and in block
319	EF 2	1	DV	J	1+	3	62 81	R	below sampled reach

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.			
319	EF 2	1	DV	62		U	U								
319	EF 2	1	DV	76		U	U						2 29		
319	EF 2	1	DV	81		U	U								

COMMENTS															
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Photo #: 2 - 28
Site 319, looking downstream at LWD over stream banks.



Photo #: 2 - 30
Site 319, looking upstream at barrier to u/s fish migration (1m CV).



Photo #: 2 - 27
Site 319, looking upstream at entrenched, eroding banks.



Photo #: 2 - 29
Site 319, photo of a 76 mm dolly varden.

Site/Reach Card

Watershed Code 460-600600-64400-11700-4190-1340-000-000-000-000-000

Reach 1.0
Site # 320

Project Name Morice River Fish Inventory - 1999

Project Code 1710

REACH ATTRIBUTES										Sample Type	R	
Length (km)	.77	Elevation (m): upstream	878	downstream	869	UTM (Zone/East/North/ method)						
Gradient (%)	1.2	Order	2	Magnitude	3	BGC Zone	SBS	9	605149	5987584	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	1999/08/13	Time	12:15	Agency:	C151							
Crew	JA/JD	Access	V4	MAP UTM (Zone/East/North/Method)	9	605270	5987691	GIS				
Site Length (m)	300	Method	HC	Fish Card	☒ Incomplete	☐	NID Map	93L.004	NID #	40020		

CHANNEL										
Channel Widths (m)	1.1	1.3	1.4	1.0	0.8	1.3	Average	1.1	Method(s)	MS
Wetted Widths (m)	0.8	0.6	1.0	0.9	0.6	1.0		0.8		MS
Resid. Pool Depths (m)	0.04	0.06	0.07	0.09	0.07	0.08		0.07		MS
No Vis.Ch.	☐	Dewatered	☐	Gradients (%)	1.0	2.0	1.5	2.0	1.6	C, C
Intermittent	☐	Tributaries	☐	Bankfull Depth (m)	0.3	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	Sub-Dominant	None	Sub-Dominant	None	Dominant	Sub-Dominant
Crown Closure	21-40%	LEFT BANK			RIGHT BANK			
Instream Vegetation		Shape Overhanging bank			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	10	Method	T3	pH	7.4	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								
Abandoned channels ☐ B1			SWD ☐ D1	Extensive riffles ☐ C1	Homog. bed ☐ S1				

Site/Reach Card

Watershed Code 460-600600-64400-11700-4190-1340-000-000-000-000-000

Reach 1.0
Site # 320

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 Well placed for fish access

Photograph Roll 2 Frame 31 UTM (Zone/East/North/ Method) 9 605138 5987575 GIS

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

Name	Comments
Rearing Habitat	Poor rearing habitat - lack of adequate pools containing flowing water
Spawning Habitat	Poor spawning habitat - low flows and too many fines
OverWinter Habitat	No overwintering habitat

PHOTO DOCUMENTATION							
Film	Compact Disc	Lens / Dir.	Comments				
Roll 2	Fr 32 CD 2110	Im 57 STD U	Site 320, looking upstream at spruce in stream.				
Roll 2	Fr 33 CD 2110	Im 58 STD D	Site 320, looking downstream at overstream vegetation.				
Roll 2	Fr 31 CD 2110	Im 56 STD U	Site 320, looking upstream at well placed culvert (1000m).				

WILDLIFE	
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COMMENT	
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Form	Section	Comments
SITE	CHANNEL	C1, S4
SITE	CHANNEL	C2, fish may access this reach during high flows
SITE	SITE CARD	C6, FC# 15999

FDIS Fish Form

Watershed Code 460-600600-64400-11700-4190-1340-000-000-000-000-000

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: 1999/08/13	To: 1999/08/13	Crew: JD/JA		Resample ☐
Site	NID MAP	NID	UTM:Zone/East/North/ Mthd	MTD/NO	Temp Cond Turbid Comment
320	93L.004	40020	9 605270 5987691	EF 1	10.0 60 C
GEAR SETTINGS					
Site	MTD/NO	H/P	Date In	Time In	Date Out Time Out Comment
320	EF 1	1	1999/08/13	12:15	1999/08/13 12:50
NET/TRAP SPECIFICATIONS					
ELECTROFISHER SPECIFICATIONS					
Site	MTD/NO	H/P	Encl	Sec.	Length Width Volts Hz Pulse Make Model
320	EF 1	1	O	316	300.0 1.0 600 60 6 SR 12-B
FISH SUMMARY					
Site	MTD/NO	H/P	Species	Stage	Age Total # Lgth (Min/Max) Activity Comment
320	EF 1	1	NFC		0
INDIVIDUAL FISH DATA					
COMMENTS					



Photo #: 2 - 33
Site 320, looking downstream at overstream vegetation.



Photo #: 2 - 32
Site 320, looking upstream at spruce in stream.



Photo #: 2 - 31
Site 320, looking upstream at well placed culvert (1000m).

Site/Reach Card

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

Reach 2.0

ILP # 1007

Site # 321

ILP Map # 93L.004

Project Name Morice River Fish Inventory - 1999

Project Code 1710

REACH ATTRIBUTES									
Length (km)	.78	Elevation (m): upstrea	810	downstream	791	UTM (Zone/East/North/ method)	Sample Type: ☒ R		
Gradient (%)	2.4	Order 1	Magnitude 1	BGC Zone	SBS	9	606236	599382	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	Regular Meanders			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	1999/09/13		Time	13:45		Agency:	C151		
Crew	JD/JA		Access	V4		MAP UTM (Zone/East/North/Method)	9	605826	5994195 GIS
Site Length (m)	200	Method	HC	Fish Card	☐ Incomplete ☐	NID Map	93L.004	NID #	40021

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

FEATURE									
HABITAT QUALITY					FSZs				
					Side Chan ☒				
					Flood/Beave ☒				
					Tribes ☒				
					Flood Cha ☒				
					Sloug ☒				
Name	Comments								
Other	vegetated depression with some standing water, no fish habitat.								

PHOTO DOCUMENTATION									
Film	Compact Disc			Lens / Dir.		Comments			
Roll 2	Fr	34	CD 2110	Im	59	STD	U	Site 321, looking at reach classified as "No Visible Channel".	
Roll 2	Fr	35	CD 2110	Im	60	STD	D	Site 321, photo of a salamander in the sampling area.	

COMMENT		
Form	Section	Comments
SITE	CHANNEL	C1, NVC
SITE	CHANNEL	No evidence of bed scour, just a vegetated depression.



Photo #: 2 - 34
Site 321, looking at reach classified as "No Visible Channel".



Photo #: 2 - 35
Site 321, photo of a salamander in the sampling area.

Site/Reach Card

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

Reach 2.0
Site # 322

ILP # 1006
ILP Map # 93L.013

Project Name Morice River Fish Inventory - 1999

Project Code 1710

REACH ATTRIBUTES										Sample Type			
Length (km)	.95	Elevation (m): upstrea	820	downstream	786	UTM (Zone/East/North/ method)							
Gradient (%)	3.6	Order	1	Magnitude	1	BGC Zone	SBS	9	604515	599690 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	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	☒ N		

SITE											
Gazetted Name						Local Name	Unnamed				
Survey Date	1999/08/14	Time	09:45	Agency:	C151						
Crew	JA/JD	Access	V4	MAP UTM (Zone/East/North/Method)	9	603964	5996907	GIS			
Site Length (m)	200	Method	HC	Fish Card	☐ Incomplete	☐	NID Map	93L.013	NID #	40022	

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

FEATURE									
HABITAT QUALITY									
FSZs									
Side Chan ☒ Flood/Beave ☒									
Tribes ☒ Flood Cha ☒ Sloug ☒									
Name	Comments								
Other	No fish habitat, just a depression at the edge of the cutblock, vegetated seepage only.								

PHOTO DOCUMENTATION										
Film	Compact Disc	Lens / Dir.	Comments							
Roll 3	Fr 1	CD 2110	Im 63	STD U	Site 322, photo of a reach classified as "No Visible Channel"					

COMMENT									
Form	Section	Comments							
SITE	CHANNEL	C1, NVC							
SITE	CHANNEL	C2, no defined channel, no bed scour.							



Photo #: 3 - 1
Site 322, photo of a reach classified as "No Visible Channel"

Site/Reach Card

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

Reach 1.0
Site # 323

ILP # 1002
ILP Map # 93L.013

Project Name Morice River Fish Inventory - 1999

Project Code 1710

REACH ATTRIBUTES									
Length (km)	.89	Elevation (m): upstream	780	downstream	766	UTM (Zone/East/North/ method)			
Gradient (%)	1.6	Order	1	Magnitude	1	BGC Zone	SBS	9	602918 599600 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	Irregular Meanders			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	1999/08/14	Time	10:35	Agency:	C151				
Crew	JAJD	Access	V4	MAP UTM (Zone/East/North/Method)	9	602599	5995897	GIS	
Site Length (m)	200	Method	HC	Fish Card	☐ Incomplete ☐	NID Map	93L.013	NID #	40023

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

FEATURE									
HABITAT QUALITY					FSZs	Side Chan	Flood/Beave		
					Tribs ☒	Flood Cha ☒	Sloug ☒		
Name	Comments								
Other	No fish habitat, vegetated seepage only.								

PHOTO DOCUMENTATION									
Film	Compact Disc		Lens / Dir. Comments						
Roll 3	Fr 2	CD 2110	Im 64	STD U	Site 323, photo of a reach classified as "No Visible Channel", this is a vegetated seepage.				

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



Photo #: 3 - 2

Site 323, photo of a reach classified as "No Visible Channel", this is a vegetated seepage.

Site/Reach Card

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

Reach 1.0

ILP # 1013

Site # 324

ILP Map # 93L.004

Project Name Morice River Fish Inventory - 1999

Project Code 1710

REACH ATTRIBUTES									
Length (km)	.89	Elevation (m): upstrea	818	downstream	797	UTM (Zone/East/North/ method)	Sample Type ☒ R		
Gradient (%)	2.4	Order 1	Magnitude 1	BGC Zone	SBS	9	608646	599367	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	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	1999/08/14	Time	11:45	Agency:	C151				
Crew	JD/JA	Access	V4	MAP UTM (Zone/East/North/Method)	9	608964	5993295	GIS	
Site Length (m)	200	Method	HC	Fish Card	☐ Incomplete ☐	NID Map	93L.004	NID #	40024

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

FEATURE									
HABITAT QUALITY									
				FSZs	Side Chan ☒	Flood/Beave ☒			
				Trips ☒	Flood Cha ☒	Slough ☒			
Name	Comments								
Other	NVC, no fish habitat.								

PHOTO DOCUMENTATION									
Film	Compact Disc		Lens / Dir.		Comments				
Roll 3	Fr 3	CD 2110	Im 65	STD D	Site 324, photo of a vegetated skidder trail.				

COMMENT									
Form	Section	Comments							
SITE	CHANNEL	C1, NVC							
SITE	CHANNEL	C2, vegetated seepage, no evidence of bed scour.							



Photo #: 3 - 3
Site 324, photo of a vegetated skidder trail.

Site/Reach Card

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

Reach 1.0

ILP # 1485

Site # 325

ILP Map # 93L.004

Project Name Morice River Fish Inventory - 1999

Project Code 1710

REACH ATTRIBUTES										Sample Type		
Length (km)	.55	Elevation (m): upstream	840	downstream	819	UTM (Zone/East/North/ method)						
Gradient (%)	3.8	Order	1	Magnitude	2	BGC Zone	SBS	9	611329	599385	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	☐		

SITE										
Gazetted Name	Local Name Unnamed									
Survey Date	1999/08/14	Time	12:40	Agency:	C151					
Crew	JA/JD	Access	V4	MAP UTM (Zone/East/North/Method)	9	611038	5993909	GIS		
Site Length (m)	200	Method	HC	Fish Card	☐ Incomplete	☐	NID Map	93L.004	NID #	40025

CHANNEL										
Channel Widths (m)	1.5	1.8	1.4	1.4	1.7	1.6	Average	1.6	Method(s)	MS
Wetted Widths (m)							n/a			
Resid. Pool Depths (m)							n/a			
No Vis.Ch.	☐	Dewatered	☐	Gradients (%)	3.0	4.0	3.0	3.0	3.2	C, C
Intermittent	☒	Tributaries	☐	Bankfull Depth (m)	0.3	0.3	0.3	0.3	0.3	MS

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

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

MORPHOLOGY									
BED	Dominant	Gravels	D95(cm) (only 5%larger)	30					
MATERIAL	Subdominant	Fines	D (cm) (moveable)	5					
Channel Pattern	Irregular Meanders								
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 # 1485

Site # 325

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 .6 Method GE Length 7 Method GE

Comments pinched culvert outlet

Photograph Roll 3 Frame 4 UTM (Zone/East/North/ Method) 9 611160 599391 GIS

HABITAT QUALITY

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

Name	Comments
OverWinter Habitat	no overwintering
Spawning Habitat	no spawning
Rearing Habitat	poor rearing

PHOTO DOCUMENTATION

Film	Compact Disc	Lens / Dir.	Comments
Roll 3 Fr 5 CD 2110 Im 67 STD U	Site 325, looking upstream at a dry channel.		
Roll 3 Fr 6 CD 2110 Im 68 STD D	Site 325, looking downstream at overstream vegetation cover.		
Roll 3 Fr 4 CD 2110 Im 66 STD U	Site 325, looking upstream at a 600mm culvert.		

WILDLIFE

COMMENTS

Form	Section	Comments
SITE	CHANNEL	C1, S3
SITE	CHANNEL	C2, resample reach in spring, no gradient barriers.



Photo #: 3 - 4
Site 325, looking upstream at a 600 mm culvert.



Photo #: 3 - 5
Site 325, looking upstream at a dry channel.



Photo #: 3 - 6
Site 325, looking downstream at overstream vegetation cover.

Site/Reach Card

Watershed Code 460-600600-63200-62200-2180-0000-000-000-000-000-000

Reach 3.0
Site # 326

Project Name Morice River Fish Inventory - 1999

Project Code 1710

REACH ATTRIBUTES										Sample Type	B	
Length (km)	1.76	Elevation (m): upstream	929	downstream	887	UTM (Zone/East/North/ method)						
Gradient (%)	2.4	Order	2	Magnitude	4	BGC Zone	SBS	9	613737	5996246	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	1999/08/14		Time	13:30		Agency:	C151				
Crew	JA/JD		Access	V4		MAP UTM (Zone/East/North/Method)	9	613076	5995428	GIS	
Site Length (m)	200		Method	HC		Fish Card	☒ Incomplete	☐	NID Map	93L.004 NID # 40026	

CHANNEL								Average	Method(s)
Channel Widths (m)	2.7	2.0	2.0	3.3	2.1	2.4		2.4	T
Wetted Widths (m)	2.5	2.0	1.5	2.0	2.1	2.1		2.0	T
Resid. Pool Depths (m)	0.67	0.83	0.91	0.69	0.71	0.86		0.78	T

No Vis.Ch.	☐	Dewatered	☐	Gradients (%)	1.0	2.0	1.0	1.5	1.4	C, C
Intermittent	☐	Tributaries	☐	Bankfull Depth (m)	1.0	1.1	1.1		1.1	GE

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	Sub-Dominant	Sub-Dominant	Dominant	Trace	
Crown Closure	1-20%								
Instream Vegetation	LEFT BANK				RIGHT BANK				
	Shape Overhanging bank				Shape Overhanging bank				
	Riparian Veg. Deciduous				Riparian Veg. Shrubs				
	Riparian Stage Pole-sapling stage				Riparian Stage Shrub/herb stage				
	Texture ☒ Fines ☐ Gravel ☐ Cobble				Texture ☒ Fines ☐ Gravel ☐ Cobble				
	☐ Boulder ☐ Rock ☐ Man Made				☐ Boulder ☐ Rock ☐ Man Made				

WATER									
Temperature	12	Method	T3	pH	7.2	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 Gravels				D (cm) (moveable)	2			
Channel Pattern	Irregular Meanders				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 460-600600-63200-62200-2180-0000-000-000-000-000-000

Reach 3.0
Site # 326

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 ☒
		Tribs. ☒	Flood/Beaver ☒
		Flood Chan ☒	Slough ☒

Name	Comments
Rearing Habitat	excellent rearing habitat,
OverWinter Habitat	good overwintering habitat
Spawning Habitat	poor spawning habitat.

PHOTO DOCUMENTATION							
Film	Compact Disc		Lens / Dir.		Comments		
Roll 3	Fr 7	CD 2110	Im 69	STD D	Site 326, looking downstream at alder and sedges along the stream.		
Roll 3	Fr 8	CD 2110	Im 70	STD U	Site 326, looking upstream at pond habitat.		

WILDLIFE	
COMMENT	

Form	Section	Comments
SITE	SITE CARD	C6, 15998

FDIS Fish Form

Watershed Code 460-600600-63200-62200-2180-0000-000-000-000-000-000

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: 1999/08/14 To: 1999/08/15 Crew: JD/JA Resample ☐

Site	NID MAP	NID	UTM:Zone/East/North/	Mthd	MTD/NO	Temp	Cond	Turbid	Comment
326	93L.004	40026	9 613076 5995428		EF 1	12.0	60	L	
326	93L.004	40026	9 613076 5995428		MT 1	12.0	60	L	
326	93L.004	40026	9 613076 5995428		MT 2	12.0	60	L	

GEAR SETTINGS

Site	MTD/NO	H/P	Date In	Time In	Date Out	Time Out	Comment
326	EF 1	1	1999/08/14	13:30	1999/08/14	14:20	
326	MT 1	1	1999/08/14	13:40	1999/08/15	07:45	
326	MT 2	1	1999/08/14	13:40	1999/08/15	07:45	

NET/TRAP SPECIFICATIONS

Site	MTD/NO.	H/P	Net Type	Length	Depth	Mesh	Setting	Habitat
326	MT 1	1			1.0		BT	NA
326	MT 2	1			1.2		BT	NA

ELECTROFISHER SPECIFICATIONS

Site	MTD/NO	H/P	Encl	Sec.	Length	Width	Volts	Hz	Pulse	Make	Model
326	EF 1	1	O	209	200.0	2.0	600	60	6	SR	12-B

FISH SUMMARY

Site	MTD/NO	H/P	Species	Stage	Age	Total #	Lgth (Min/Max)	Activity	Comment
326	EF 1	1	RSC	A		1	132	132	R
326	MT 2	1	NFC			0			
326	MT 1	1	NFC			0			

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
326	EF 1	1	RSC	132		U	U				3 9	redside shiner

COMMENTS

Section WATERBODY Comments Both minnow traps caught Corixia and tadpoles



Photo #: 3 - 7
Site 326, looking downstream at alder and sedges along the stream.



Photo #: 3 - 8
Site 326, looking upstream at pond habitat.



Photo #: 3 - 9

Site 326, photo of an adult redeye shiner

Site/Reach Card

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

Reach 1.0

ILP # 1193

Site # 327

ILP Map # 93L.004

Project Name Morice River Fish Inventory - 1999

Project Code 1710

REACH ATTRIBUTES									
Length (km)	.38	Elevation (m): upstrea	840	downstream	797	UTM (Zone/East/North/ method)	Sample Type B		
Gradient (%)	11.3	Order	2	Magnitude	2	BGC Zone	SBS	9	613293 599193 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	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	1999/08/15	Time	08:45	Agency:		C151			
Crew	JA/JD	Access	V4	MAP UTM (Zone/East/North/Method)		9	613218	5991777	GIS
Site Length (m)	380	Method	HC	Fish Card	☐	Incomplete	☐	NID Map	93L.004
								NID #	40027

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

FEATURE									
HABITAT QUALITY					FSZs				
					Tribes ☒		Side Chan ☒		Flood/Beave ☒
							Flood Cha ☒		Sloug ☒
Name	Comments								
Other	no fish habitat, no stream.								

PHOTO DOCUMENTATION									
COMMENT									
Form	Section	Comments							
SITE	CHANNEL	C1, NVC							
SITE	CHANNEL	C2, no channel identified, incorrect TRIM mapping.							
SITE	SITE CARD	Actual site length was 1200 m							

Site/Reach Card

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

Reach 1.0

ILP # 1188

Site # 328

ILP Map # 93L.004

Project Name Morice River Fish Inventory - 1999

Project Code 1710

REACH ATTRIBUTES									
Length (km)	.35	Elevation (m): upstrea	880	downstream	830	UTM (Zone/East/North/ method)	Sample Type B		
Gradient (%)	14.3	Order	1	Magnitude	1	BGC Zone	SBS	9	614192 599465 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	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	1999/08/15	Time	09:15	Agency:	C151				
Crew	JD/JA	Access	V4	MAP UTM (Zone/East/North/Method)	9	614451	5994602	GIS	
Site Length (m)	300	Method	NS	Fish Card	☐ Incomplete ☐	NID Map	93L.004	NID #	40028

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

FEATURE									
HABITAT QUALITY									
FSZs ☐ Side Chan ☒ Flood/Beave ☒ Tribs ☒ Flood Cha ☒ Sloug ☒									
Name	Comments								
Other	no fish habitat, not a stream.								

PHOTO DOCUMENTATION									
Film	Compact Disc	Lens / Dir.	Comments						
Roll	3	Fr	10	CD	2110	Im	72	STD	U
Site 328, looking upslope at vegetated gully.									

COMMENT		
Form	Section	Comments
SITE	SITE CARD	C1, NVC
SITE	SITE CARD	C2, Vegetated gully; no evidence of channel or scour.



Photo #: 3 - 10
Site 328, looking upslope at vegetated gully.

Site/Reach Card

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

Reach 1.0

ILP # 1185

Site # 329

ILP Map # 93L.004

Project Name Morice River Fish Inventory - 1999

Project Code 1710

REACH ATTRIBUTES										Sample Type	B	
Length (km)	.50	Elevation (m): upstream	860	downstream	825	UTM (Zone/East/North/ method)						
Gradient (%)	7.0	Order	1	Magnitude	1	BGC Zone	SBS	9	615811	599568	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	Mixed C/D					Valley Flat	No valley flat on either bank			(C)ontinuous (D)iscontinuous	☒ N	

SITE										
Gazetted Name	Local Name Unnamed									
Survey Date	1999/08/15	Time	09:40	Agency:	C151					
Crew	JAJD	Access	V4	MAP UTM (Zone/East/North/Method)	9	616028	5995380	GIS		
Site Length (m)	300	Method	HC	Fish Card	☐ Incomplete ☐	NID Map	93L.004	NID #	40029	

CHANNEL												
Channel Widths (m)	1.1	0.8	0.8	0.8	0.9	0.9	Average	0.9	Method(s)	MS		
Wetted Widths (m)							n/a					
Resid. Pool Depths (m)							n/a					
No Vis.Ch.	☐	Dewatered	☐	Gradients (%)			12.0	14.0	8.0	10.0	11.0	C, C
Intermittent	☒	Tributaries	☐	Bankfull Depth (m)			0.3	0.2	0.2	0.2	0.2	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	ub-Dominant	None	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. 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	Methoc	pH	Method	EMS #						
Conductivity	Method	Turbidity	☐ Turbid ☐ Medium ☐ Light ☐ Clear	Method						

MORPHOLOGY										
BED	Dominant	Gravels	D95(cm) (only 5% larger)			20				
MATERIAL	Subdominant	Cobble	D (cm) (moveable)			4				
Channel Pattern	Sinuous		Morphology Code			Bars				
Coupling	Partially Coupled		RP			☒ None ☐ Mid ☐ Side ☐ Span ☐ Diag. ☐ Braid				
Confinement	Occasionally Confined									
Islands	None									

Site/Reach Card

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

Reach 1.0

ILP # 1185

Site # 329

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 .5 Method GE Length 18 Method GE

Comments Wooden CV - barrier to fish

Photograph Roll 3 Frame 13 UTM (Zone/East/North/ Method) 9 616039 599532 GIS

HABITAT QUALITY

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

Name	Comments
Spawning Habitat	Poor spawning habitat
Rearing Habitat	Poor rearing habitat in lower 100m, no rearing habitat above that point
OverWinter Habitat	No overwintering habitat

PHOTO DOCUMENTATION

Film	Compact Disc	Lens / Dir.	Comments
Roll 3 Fr 11 CD 2110 Im 73 STD U	Site 329, looking upstream at Devil's Club - dry channel		
Roll 3 Fr 12 CD 2110 Im 74 STD D	Site 329, looking downstream at Devil's Club - dry channel		
Roll 3 Fr 13 CD 2110 Im 75 STD U	Site 329, looking upstream at wooden CV - axe in CV barrier to fish		

WILDLIFE

COMMENTS

Form	Section	Comments
SITE	CHANNEL	C1, S4
SITE	CHANNEL	C2, S4 based on access and some spawning habitat
SITE	SITE CARD	C6, no fish card



Photo #: 3 - 12
Site 329, looking downstream at Devil's Club - dry channel



Photo #: 3 - 11
Site 329, looking upstream at Devil's Club - dry channel



Photo #: 3 - 13

Site 329, looking upstream at wooden CV - axe in CV barrier to fish

