

A Summary of The 1993

Moricetown Falls Steelhead and Coho Release Project.

A C.S.E.R.F. Project

August 13 - September 9, 1993.

J.R.C. Lough

B.C. Environment Fisheries Branch Smithers, B.C.

Skeena Fisheries Report # 88 December, 1993

P FR SK 88 c. 1 mm

mm P/FR/SK/88 C.1

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P/FR/SK/88 LOUGH, J.R.C. SUMMARY OF THE 1993 MORICETOWN FALLS STEELHEA CPLF c. 1 mm SMITHERS

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Acknowledgements

Administration of this release program was done by the Office of Wet'suwet'en Hereditary Chiefs (O.W.H.C.) under direction of Larry Joseph. All steelhead and coho were captured by the fishermen at Moricetown and tagging was completed by O.W.H.C. Fishery Technicians based at the falls. The efforts of all parties involved were greatly appreciated.

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Introduction and Objectives

Moricetown Falls located on the Bulkley River (Fig. 1) is the site of a substantial historic fishery conducted by Wet'suwet'en Native people. In recent history fishing methods have focused on the use of gaffs or jigs as a method of harvesting salmonids. However, in recent years, some effort has been directed toward the use of dipnets, especially during the latter stages of the fishing season when steelhead and coho are more likely to be captured. A description of the fishery and the pilot project was described previously (Lough, 1992).

In June of 1993 a proposal was submitted on behalf of the Office of Wet'suwet'en Hereditary Chiefs in Moricetown (O.W.H.C.) to live capture, tag and release both steelhead and coho (Appendix I). This year a new source for funding this project came from the B.C. 21, C.S.E.R.F., program. O.W.H.C. administered the funds and completed the fish capture and tagging under training and advisement from staff of the Ministry of Environment, Lands and Parks.

Steelhead and coho returning to the Bulkley and Morice rivers pass through Moricetown between late July and late September. The "early" component of this steelhead run, and the entire upper Bulkley and Morice River coho runs, are severely depressed as a result of interception in mixed stock commercial fisheries from Southeast Alaska to the mouth of the Skeena River. These early run timing steelhead and coho pass Moricetown between late July and late August.

A live capture fishery using dip nets at the falls is a proven method of providing harvest of strong stocks (sockeye, pink and chinook) but also offers an excellent opportunity to tag and release weaker stocks (coho and steelhead) caught incidentally.

The objectives of this project were to increase spawning escapement of these depressed runs of steelhead and coho and to give more insight to the run timing and migration of these stocks.

Methods

A written proposal was submitted to the C.S.E.R.F. Fund with technical advice from the B.C. Fisheries Branch (Appendix I).

Methods were similar to the 1992 tagging project (Lough, 1992) with minor changes. In 1993 tagging was expanded to include coho in addition to steelhead. Tagging of captured fish was done completely by the technicians from O.W.H.C. under advisement from the B.C. Fish and Wildlife Branch. An additional holding pen was placed on the east bank of the falls to hold fish captured on that side prior to tagging and release.

Administration of project funds and staff was managed by the O.W.H.C. in Moricetown.

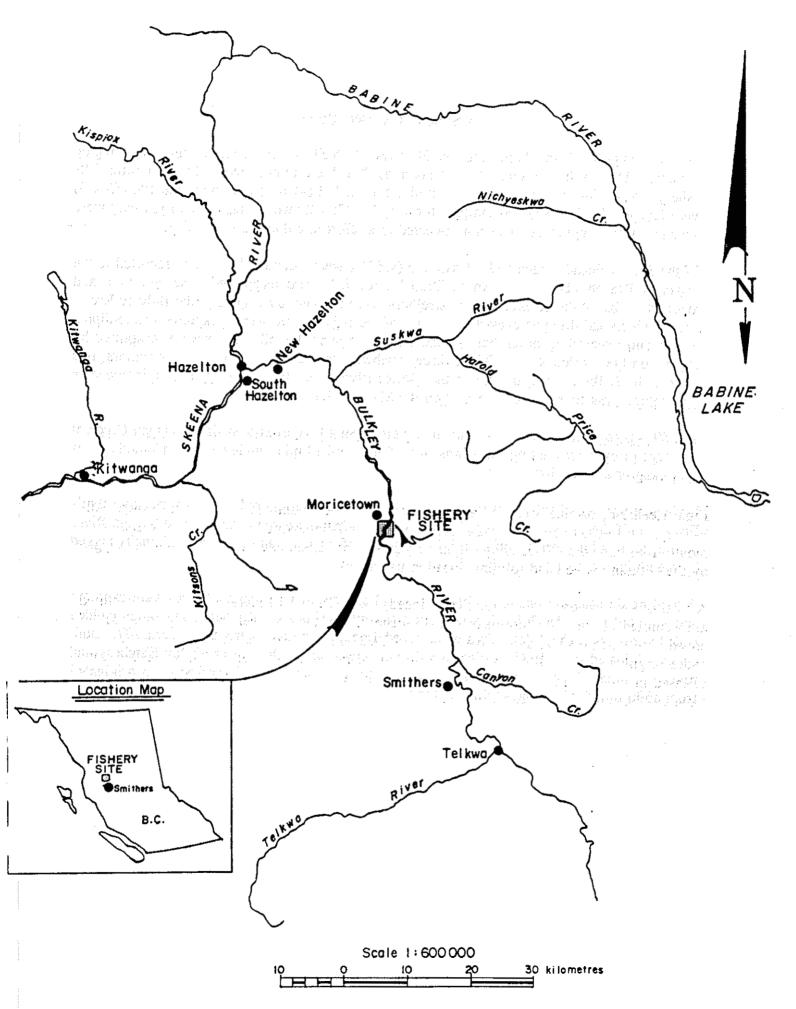


Figure 1 Location of Moricetown Fisherv

Results and Observations

Between August 13 and September 9, 20 days of steelhead and coho capture and tagging occurred. During this period 343 steelhead and 389 coho were captured and tagged at the falls fishery. Of the 343 steelhead visually sampled for sex 153 (44.6%) were male and 190 (55.4%) were female. Of the 389 coho sampled for sex, 294 (75.6%) were males and 95 (24.4%) were females. Fork lengths data was not collected in a effort to reduce stress on fish.

Of the 343 steelhead tagged and released 16 (4.67%) were recaptured once and reported to the Fisheries Branch (Table 1). An additional three fish were recaptured a second time and reported. Nine of the 16 Moricetown steelhead were recaught by anglers in the Bulkley River, two of which had dropped back downstream of the falls. Three were recaptured at the dipnet fishery and released again on their second attempt to jump the falls. Four were recaptured by anglers on the Morice River. Of the three steelhead recaptured a second time by anglers, two were in the Bulkley River and one in the Morice River. One tagged steelhead, not included as a recapture, was found dead near Usk on the Skeena River.

Of 389 tagged coho, 14 (3.6%) recaptures were reported. Eleven were in Toboggan Creek at the fence or by tangle netting. One was at the fence on the Little Bulkley River and another was by an angler on the Morice River.

Eight steelhead, originally tagged at other locations were recaptured at the Moricetown Falls Fishery. Of these, two were tagged at the steelhead holding barge located at the Skeena River mouth, four had no corresponding original tagging information, and two were originally tagged by the Gitksan native band (original location unknown).

A total of six hatchery marked (adipose clipped) steelhead and 10 marked coho were captured and reported at the 1993 Moricetown Falls fishery. Of the six steelhead, only four yielded coded wire tags (C.W.T.'s). Two were coded 12/32/11 and two were coded 12/23/07. Both codes originated from 1988 Morice brood that were raised at the Fraser Valley Hatchery and released in the fall at 3.3 grams back into the Morice River. All 10 marked coho originated from 1990 brood of Toboggan Creek stock.

E I	ry of steel	Table 1.Summary of steelhead and coho tagging and recaptures from the Moricetown Falls Fishery 1993.	etown Falls Fishery 1993.			
à	Receptured	1st Recan Location	2nd Recap. Location	Coho Tagged	Recontured	1st Recap Location
	-	Bulkley R , 123 km, 93/08/26		7		
				15		
	-	Bulkley R. 90 km, 93/09/16		29		
	2	D/S Motown Falls, 93/10/22, Bulkley R.,93/11/15		40	e e	
	-	Morice R. 190 km, 93/10/15		23	2	Morice R. 93/09/15, Toboggen Cr Hatch. 93/10/03
				21		
	2	Morice R., 93/11/06, Bulkley R. 26km,93/12/21		17		Toboggen Cr. Fence 93/10/02
				29		
	4	2 - @Trout Cr, 1- Motown Falls, 1- Morice 204 km	1 in Bulkley River, 93/11/19	53	က	2 in Toboggan Cr. 1 at Little Bulkley Fence
		Moricetown Falls, 93/08/31	Morice R, 160 km, 93/10/23	18		
		Marice R. 168 km, 93/09/10		24		
		-		1	-	
				2		
			7	8		
				19	2	Moricetown Felts 93/09/02, Toboggan Cr. fence93/10/28
		Moricetown Falls, 93/09/04		21	1	Tobogan Cr. fence 93/10/27
			-	23	2	Toboggen Cr. Fence 93/10/04 & 93/10/27
					-	
	,					
	2	Bulktey R., 92 &140 km, 93/11/18 & 93/10/08	Bulkley R. 129 km, 93/10/17	24	3	Toboggan Cr. Fance 93/10/04, 93/10/19, 93/10/27
				15		
	16		3	389	14	
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Discussion and Recommendations

The second year of the steelhead and coho release program at the Moricetown Falls Fishery was successful in terms of releasing greater numbers and species of fish as well as in continuing to foster cooperation between the Fish and Wildlife Branch and the Native community. However there were some concerns over fish handling procedures. It appears that excessive confinement or questionable handling techniques may have influenced survival rates.

The Fish and Wildlife Branch received numerous public reports regarding stressed or injured fish. It seems that tagged fish were spotted holding for varying periods near their release site above and below the falls, some swimming erraticly. Other reports were received concerning recaptured fish that had split fins and scale loss. Large mesh, knotted nylon dipnets which were still being used to capture the fish likely contributed to these observations. In addition on a few occasions, the holding pen was overcrowded with steelhead and coho prior to tagging. This undoubtedly caused some physical injury and undue stress. One tagged steelhead from Moricetown was found and reported dead 160 kilometres downstream of the falls on the mainstem Skeena near Usk.

There are a few simple improvements which would decrease stress and physical damage and therefore increase survival rates of the released fish:

- i) Use medium mesh (3 inch maximum) knotless soft netting on the dipnets to eliminate fin splitting and reduce scale loss.
- ii) Tag and release fish immediately after they are caught.
- iii) Use a fish trough made of soft material to assist in holding of the steelhead and coho during tagging.

A perception which developed during this program was that payment for the release of fish actually increased the fishing effort at the falls and with the associated mortalities from stress, more fish were being killed than before the release reward was offered. This does seem plausible, yet on several occasions late in the fishery when the pen was closed off, and no reward was offered, fishermen continued to fish. On one occasion fishermen were observed both harvesting and releasing coho and steelhead. Consistent and thorough observation of the fishery would be required to further evaluate the efficiency of the tagging program.

Recaptures of steelhead tagged and released at Moricetown Falls was essentially the same in 1993 (4.66%) as 1992's recapture rates (5.1%). When comparing recapture information to three similar tagging programs initiated at Moricetown in 1961, 1962, and 1966 (Appendix IV), a 5% recapture rate seems low. In 1961, 41 (27.3%) of 150 tagged steelhead were recaptured. Similarly, in 1962, 3 (18.8%) of 16 tagged steelhead were recaptured, and in 1966, 6 (14.1%) of 42 tagged steelhead were recaptured. Although details of earlier projects are sketchy the capture of the fish at the falls was done by dipnetting. This information supports allegations that

survival of tagged steelhead may have been low. Given the large increases in angler effort and expertise and the excellent angling conditions which prevailed in 1993 relative to the previous years tagging, it would be expected that the recapture rates in the current project would have been at least as high.

With only 3.6% of the Moricetown tagged coho being recaptured, most of which were in Toboggan Creek, it is unknown whether survival was poor or if coho were less likely to be recaptured by angling. Coho also may have dispersed more widely throughout the Upper Bulkley and Morice River system thus making them more difficult to find.

Some enumeration problems occurred when the holding pen became full and a few fish started to escape out the deposit opening. This resulted in less fish being tagged and released than were reported to have been deposited into the holding pen. This missing fish problem would be easily rectified by having a catch recorder and fish tagger on site throughout the entire day of fishing, and tagging immediately after capture. An additional minor problem with catch recording arose when the recorders changed shifts in the middle of the fishing day and some of the dipnetters catches were tallied by both recorder. This was resolved quickly by introducing a single tally sheet which was used by both recorders for each day of fishing.

The inclusion of tagging Upper Bulkley and Morice River coho in 1993 was generally accepted by all parties involved. In future when utilising techniques to conserve coho at the Moricetown Falls fishery it is recommended that the Department of Fisheries and Oceans be made aware of the project prior to inception.

It is recommended that funding for future projects focused on conservation of steelhead and coho stocks at Moricetown Fishery be revised. The spirit of the project should be to release the weaker stocks (like steelhead and coho) if they are captured incidentally while the fishermen are targeting stronger stocks (like pink and sockeye salmon). Fishermen should be discouraged from benefiting by targeting the weak stocks. One method of achieving this is to redirect funding toward educating fishers about the status of the Bulkley/Morice coho and steelhead stocks. This could be accomplished by having trained technical staff on site throughout the entire period when fishery is occurring. Improved data on fishing effort and catch should also be a component of this program. Technical advice and assistance for the program will continue to be available from the Fish and Wildlife Branch.

References

Lough, J.R.C. 1992. A summary of the Moricetown Falls steelhead release project. A comanagement initiative, August 24 - September 16, 1992.

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Appendix I. Moricetown release program proposal to B.C. 21, C.S.E.R.F.

Moricetown Falls Selective Fishery: Bulkley/Morice River steelhead and coho release proposal.

Office of Wet'suwet'en Hereditary Chiefs
R.R. Box 25, Site 15
Moricetown, B.C.
VOJ 2N0

Waterway: Bulkley River.

Project Location: Moricetown Falls on the Bulkley River.

Nearest Community: Moricetown, Smithers, and Hazelton.

Species to be enhanced: summer run steelhead and coho.

Project Description

Introduction

Moricetown Falls located on the Bulkley River is the site of a substantial historic fishery conducted by Native people. In recent history fishing methods have focused on the use gaffs or jigs as a method of harvesting salmonids. However, in recent years, some effort has been directed toward the use of dipnets, especially during the latter stages of the fishing season when steelhead and coho are more likely to be captured.

Steelhead and coho returning to the Bulkley and Morice rivers pass through Moricetown between late July and late September. This "early" component of the steelhead run, and the entire upper Bulkley and Morice River coho runs, are severely depressed as a result of incidental interception in mixed stock commercial fisheries in Southeast Alaska and at the mouth of the Skeena River. These early steelhead and coho pass Moricetown before late August. Conservation of this component of these runs is vital to their continued existence and to sustaining a non-consumptive sport fishery in upstream waters. A harvest fishery of these species at Moricetown is not compatible with either.

A live capture fishery using dip nets at the falls is a proven method of providing harvest harvest of strong stocks (sockeye, pink and chinook) but also offers an excellent opportunity to tag and release weaker stocks (coho and steelhead) caught incidentally. This would not only increase spawning escapement of these depressed runs but would also give more insight to steelhead and coho run timing, migration and spawning behaviour.

Labour Component Description

Three employees will be required to daily tag, sample, and release steelhead and coho that local dipnetters have captured and placed in a holding pen located near the falls. These employees will start on August 2nd and will work shifts seven days a week until September 30th or until the

fishery stops due to environmental factors.

Steelhead and coho will be captured by local dipnetters who will be compensated for each steelhead or coho, tagged and released. There will be an estimated five to ten dipnetters involved in releasing these fish while targeting other species. They will work on their own schedule.

Education and Training Component

Education for this project will be supplied by a Ministry of Environment, Lands, and Parks, Fisheries Branch employee on sight. Training curriculum will include:

- species identification
- live fish handling
- fish tagging and biological sampling
- catch data collection, and record keeping
- equipment maintenance and repair

Financial Information

1. Project Start Date: August 2, 1993.

Project Finish Date: September 30, 1993.

2. Co-funding Source

Contribution

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Ministry	of Environment,	Lands and Parks	Training		
				than each cagain a billion dise	a sudi
				equipment and one holding	

Ministry of Environment, Lands and Parks

Data summary and final report

Project Budget

i) Operating Cost

Labour cost (three technicians)	ti e ti vality elemen. Pari	\$15,000.00	haa bhagar i bir
Live capture of steelhead and coho (\$1	(0.00/fish)	\$8,000.00*	tyres of the contract of
ii) Equipment Cost			mangologia (ili. Mangologia (ili. 1966)
Five dipnets			Waster Books
One aluminum holding Pen	in 1977 in die eerste van de seel	\$1,500.00	ar Marin Marin History
Equipment repair	We have the	\$200.00	n en ekking detain en joben. Bill oteknoen negar janden.

Total: \$26,200.00

Total Requested from CSERF:

\$26,200.00*

*Depends on number of fish tagged/released.

Estimate of Project Impact

1. Community Benefits

This project will benefit the community by providing full time seasonal employment for three members of the Moricetown Band. In addition, an estimated five to ten Moricetown fishermen will be employed by contract for the duration of the fishery.

Communication and information will continue to be enhanced between Native fishermen, fisheries managers and other users of the fisheries resource.

Fish spared as an outcome of this project will contribute to rebuilding the depressed coho steelhead stocks which will contribute to a significant tourist industry in communities on the Skeena Drainage from Prince Rupert to Houston.

2. Impact on the Salmonid Resource

The potential impacts to the depressed Bulkley/Morice steelhead and coho stocks could be substantial. Steelhead and coho stocks in the upper Bulkley and Morice Rivers are well below target levels. The increased spawner populations provided as a result of this project would produce measurable benefit to succeeding generations of both fish and fishers

3. Future Funding Sources

This budget is viewed as a catalyst rather than an ongoing commitment. Once the potential to harvest stocks selectively is realized, additional funding to encourage the release of weaker stocks should not be needed.

Appendix II	. Summary of tag Falls.	ging and recaptu	are from five rel	lease programs at	the Moricetown	
•						

Summ	ary of S	Steelhead Tagg	ed at Mo	pricetown Falls	1961 -	1993.				
Date	1961*	1961 Recap	1962*	1962 Recap	1966*	1966 Recap	1992	1992 Recap	1993	1993 Recap
Jul 27	1				5					
Jul 28	1	*****			1					
Jul 29	1		ļ	***************************************						-
Jul 30	1	11	ļ							
Jul 31			2							
Aug 1 Aug 2	8	5		<u> </u>	2					
Aug 3	18	8			3	1				
Aug 4	10	1			5	1	i			
Aug 5		<u> </u>			Ů					
Aug 6	2	1							<u>-</u>	-
Aug 7	3				9	1				
Aug 8	5	1	1	1						
Aug 9	7	4	5	2						***************************************
Aug 10	9	2	5		2					
Aug 11	10	3			4	1				
Aug 12			1							
Aug 13			1		5	1			10	
Aug 14	3	, <u>.</u>	1			···				
Aug 15	1							~		
Aug 16 Aug 17	27	7			2				19	1
Aug 17 Aug 18	5	1	- 1			1			13 31	
Aug 19									30	2
Aug 20									49	1
Aug 21	10	2			4				-3	
Aug 22								·		
Aug 23									24	
Aug 24	26	5							17	2
Aug 25	2						58	4	16	
Aug 26					·		41	3	26	4
Aug 27							16	1	6	1
Aug 28							8		30	11
Aug 29										
Aug 30									2	
Aug 31 Sep 1						***	8		8	
Sep 2							6		12	
Sep 3					\longrightarrow		4	1	18	1
Sep 4		14.00			—— 		9		3	
Sep 5									- -	
Sep 6										
Sep 7										
Sep 8							2		13	2
Sep 9							5		2	
Sep 10							27	1		
Sep 11							9			
Sep 12										
Sep 13	—— -									
Sep 14			J-							
Sep 15 Sep 16	—— <u> </u>						2			
Total	150	41	16	3	42	6	195	10	343	16
, otal	100	- 1	.0	<u> </u>	72	J	133	10	243	10
	* Stee	lhead tagged a	s part of	a Department	of Fishe	ries tagging pro	oject.			

Appendix III. Recapture records for steelhead tagged at Moricetown Falls in 1993.

FISH Steelhead Female 48.0? cm

TAGGED 93/08/16 At BU (in the Bulkley)

Moricetown Falls

Gear: River Dipnet Group: Moricetown

RECAP 1 93/09/26 At BU

(in the Bulkley)

4

VOJ 2NO

Gear: ANgling Fate: Rel 847 4142 Ltr? Y Hat? Y
Group: Sport Up Skeena Letter sent: N

Moricetown Band RR#1,Box 1,site 15 Smithers B.C.VOJ-2NO

Larry Joseph, git/wet-842-6511 847-3630 Notify? N

Gord Wolfe Barrier of Branching Box 2993

Smithers

FISH TAGGING RECORD TO THE TAGGING RECORD TO

Tag 0 N04156 As at 93/09/17

FISH Steelhead Female

TAGGED 93/08/18 At BU

(in the Bulkley) Moricetown Falls

GN scar Gear: River Dipnet

Group: Moricetown

RECAP 1 93/09/16 At BU

(in the Bulkley) near Tatlow Falls

33"

RR#1,Box 1,site 15 Smithers B.C.VOJ-2NO

Larry Joseph, git/wet-842-6511 847-3630 Notify? N

Rob Matiation

site 27, comp 1, rr#1

Smithers VOJ-2NO

Gear: ANgling Fate: Rel 847-3787 Ltr? Y Hat? Y
Group: Sport Up Skeena Letter sent: N

FISH Steelhead Male

TAGGED 93/08/19 At BU (in the Bulkley) Moricetown Falls scars

Gear: River Dipnet

Group: Moricetown

RECAP 1 93/10/22 At BU (in the Bulkley)

Below Moricetown

Dark but good shape Gear: ANgling Fate: Rel

Group: Sport Up Skeena

Moricetown Band RR#1,Box 1,site 15 Smithers B.C.VOJ-2NO

Larry Joseph, git/wet-842-651.

847-3630 Notify? N

Colin Schadrech

Box 250

Telkwa

VOJ 2X0

846 5336 Ltr? N Hat?

FISH TAGGING RECORD

Tag O N04202 As at 93/12/09

FISH Steelhead Female

93/08/19 At BU TAGGED

(in the Bulkley) Moricetown Falls

Torn Dorsal

Gear: River Dipnet

Group: Moricetown

93/11/15 At BU RECAP 1

(in the Bulkley) U/S Deep Creek

Gear: Angling Fate: Rel

Group: Sport Up Skeena

Moricetown Band

RR#1,Box 1,site 15

Smithers B.C.VOJ-2NO Larry Joseph, git/wet-842-651

847-3630 Notify?

Dennis Wickson

RR #1, Site 11, Comp. 9

Smithers. BC

VOJ 2NO

847 3254 Ltr? Y Hat?

Letter sent: N

FISH TAGGING RECORD -----

FISH Steelhead Female

TAGGED 93/08/20 At BU
(in the Bulkley)
Moricetown Falls

Moricetown Falls

torn dorsal and caudal Gear: River Dipnet Group: Moricetown

RECAP 1 93/10/15 At MO

(in the Morice) 190 Km. Camp Run

66.0 cm.

13

Gear: Angling Fate: Rel

Group: Sport Up Skeena

Moricetown Band RR#1,Box 1,site 15 Smithers B.C.VOJ-2NO

Larry Joseph, git/wet-842-6511

847-3630 Notify? N

Ryan Kuntz RR#2, S 66, C 5
Smithers BC Smithers, BC VOJ 2NO

842 9957 Ltr? Y Hat? Y Letter sent: N

FISH TAGGING RECORD

Tag 0 N03320 As at 93/09/20

FISH Steelhead Male

TAGGED 93/08/23 At BU (in the Bulkley)

Moricetown Falls

split dorsal and caudal Gear: River Dipnet Group: Moricetown

Moricetown Band RR#1,Box 1,site 15 Smithers B.C.VOJ-2NO

Larry Joseph, git/wet-842-6511 847-3630 Notify? N

RECAP 1 93/09/02 At SK (in the Skeena)

1/4 mile U/S of Usk

found on dead steelhead

Gear: Found Dead Fate: Kill 638-1289 Ltr Group: Sport Lo Skeena Letter sent: N

Sky Richard

RR#2

Terrace B.C.

V8G-3Z9 638-1289 Ltr? Y Hat? Y

FISH Steelhead Female

TAGGED 93/08/24 At BU (in the Bulkley)

Moricetown Falls

Gear: River Dipnet Group: Moricetown

RECAP 1 93/11/06 At MO

(in the Morice)

Gear: ANgling Fate: Rel

Group: Sport Up Skeena

Moricetown Band RR#1,Box 1,site 15 Smithers B.C.VOJ-2NO

Larry Joseph, git/wet-842-651:

847-3630 Notify? N

Gordon W Fleming 4105 Barnes Drive Prince George, BC

V1H 1H2

V1H 1H2 964 2912 Ltr? Y Hat?

Letter sent: N

FISH TAGGING RECORD

ers in the regard of the Tag O N03341 As at 94/01/04

FISH Steelhead Male

William Colored

TAGGED 93/08/24 At BU (in the Bulkley)

Moricetown Falls

Gear: River Dipnet Group: Moricetown

93/12/21 At BU RECAP 1 (in the Bulkley)

1 km. U/S China Creek

tail chewed up

Gear: ANgling Fate: Rel

Group: Sport Up Skeena

Moricetown Band RR#1,Box 1,site 15

Smithers B.C.VOJ-2NO

Larry Joseph, git/wet-842-6511 847-3630 Notify? N

Dave Marek Box 3517 Smithers, BC VOJ 2NO

Ltr? Y Hat? Y

Letter sent: N

FISH TAGGING RECORD As at 93/10/19

FISH Steelhead Male

TAGGED 93/08/26 At BU (in the Bulkley) (in the Bulkley) Moricetown Falls

Gear: River Dipnet Group: Moricetown

RECAP 1 93/09/30 % At MO. (in the Morice) Gosnell Creek

72

431,25

RR#1, Box 1, site 15 Smithers B.C.VOJ-2NO

Larry Joseph, git/wet-842-6511

847-3630 Notify? N

Al Bonde 2373 Glen Canyon Rd. Altadena, Calif.

female,58.4cm 91001
Gear: Angling Fate: Rel (818)794 4473 Ltr? Y Hat? Y
Group: Sport Up Skeena Letter sent: N

FISH TAGGING RECORD

Tag O N03407 As at 93/10/19

FISH Steelhead Female

93/08/26 At BU TAGGED (in the Bulkley)

Moricetown Falls

Gear: River Dipnet Group: Moricetown

RECAP 1 93/09/01 At BU (in the Bulkley)

Moricetown Willie Pete

Willie Pete

Gear: River Dipnet Fate: Rel

Group: Moricetown

VOJ 2N0

847 3630

Ltr? Y Hat? Y

Letter sent: N

Moricetown Band RR#1,Box 1,site 15 Smithers B.C.VOJ-2NO

Larry Joseph, git/wet-842-6511 847-3630 Notify? N

Willie Pete

RR#1, Box 25, Site 25

Moricetown, BC

Moricetown Band

RR#1,Box 1,site 15

3450 78th ave Edmonton, Alta

Smithers B.C.VOJ-2NO Larry Joseph, git/wet-842-651

847-3630 Notify? 1

David Cosco

T6B 2x9 (At a f vive)

T6B 2x9 (At a f vive)

Ltr? Y Hat? N

FISH TAGGING RECORD

Steelhead Male FISH

93/08/26 At BU TAGGED (in the Bulkley) Moricetown Falls

split dorsal and caudal

Gear: River Dipnet Group: Moricetown

RECAP 1 93/09/24 At BU

(in the Bulkley) Trout Creek

61 cm.

Gear: Angling Fate: Rel

Group: Sport Up Skeena Letter sent: Y

Alain Losier

RECAP 2, 93/11/19 At BU Box 726 (in the Bulkley)

Smithers, BC

VOJ 2NO 846 9809 Ltr? Y Hat? Y Gear: Angling Fate: Rel

Letter sent: N Group: Sport Up Skeena

Tag O N04523
FISH TAGGING RECORD As at 93/10/25

FISH Steelhead Male

Consider of hear

TAGGED 93/08/26 At BU (in the Bulkley) Moricetown Falls

Gear: River Dipnet

Group: Moricetown

RECAP 1 93/09/19 At BU (in the Bulkley)

4 Miles above Trout Creek Fungus on Back, infected tag i V2J 4V2

Gear: ANgling Fate: Rel 992 6478 Ltr? Y Hat? Y

Group: Sport Up Skeena Letter sent: N

Andre Laporte 75 Baker Foster Quesnel

Moricetown Band

RR#1,Box 1,site 15

Smithers B.C.VOJ-2NO

Larry Joseph, git/wet-842-6511 847-3630 Notify? N

FISH Steelhead Female

TAGGED 93/08/27 At BU (in the Bulkley) Moricetown Falls

Gear: River Gillnet Group: Moricetown

RECAP 1 93/08/31 At BU (in the Bulkley)
Moricetown
Ken Morris

Gear: River Dipnet Fate: Rel

Group: Moricetown

RECAP 2, 93/10/23 At MO (in the Morice)

2 Km. D/S Aspen campsite

6-7 Lbs

Gear: Angling Fate: Rel

Group: Sport Up Skeena

Moricetown Band RR#1,Box 1,site 15 Smithers B.C.VOJ-2NO

Larry Joseph, git/wet-842-6511 847-3630 Notify? N

Ken Morris

RR#1, Box 25, Site 15 Moricetown, BC

VOJ 2NO 847 3630 Ltr? Y Hat? Y Letter sent: Y

John Zibin

5105 Simon Fraser Ave.

Prince George

V2N 2B7
562 5822 Ltr? Y Hat? Y
Letter sent: N

FISH TAGGING RECORD

Tag O N04763 As at 93/10/01

The state of the s FISH Steelhead Male

TAGGED 93/08/28 At BU (in the Bulkley) Moricetown Falls

Gear: River Gillnet Group: Moricetown

93/09/10 At MO (in the Morice) RECAP 1 168 km., Morice River female,66.0 cm.

Gear: ANgling Fate: Rel (510) 934 6546 Ltr? Y Hat? Y Group: Sport Up Skeena Letter sent: N

Moricetown Band Moricetown Band RR#1,Box 1,site 15 Smithers B.C.VOJ-2NO Larry Joseph, git/wet-842-6511 847-3630 Notify? N

Bill Reeves 2846 Kinney Drive Walnut Creek

FISH TAGGING RECORD ------

FISH Steelhead Female

93/09/03 At BU TAGGED (in the Bulkley) Moricetown Falls

split dorsal & caudal Gear: River Dipnet Group: Moricetown

RECAP 1 93/09/04 At BU (in the Bulkley) moricetown falls

dble tagging record, COHO, F Smithers, B.C. VOJ-2NO

Gear: Unknown/Other Fate: Rel 847-3630 Ltr? Y Hat? Y

Group: Moricetorm

Group: Moricetown

A Service to 1 Section 4

Skalomy - Volle - Lin

Moricetown Band RR#1,Box 1,site 15 Smithers B.C.VOJ-2NO

Larry Joseph, git/wet-842-6511 847-3630 Notify? N

Moricetown Band RR#1,Box 1, site 15

ार्थ प्रकार प्रश्निक पूर्व कर पूर्व प्रकार है। प्रकार कार्य प्रमाणिक कार्य क्षेत्रिक स्थिति क्षेत्रिक प्रकार कर्यों ।

Letter sent: ?

FISH TAGGING RECORD

Tag O N04610 As at 93/10/25

FISH Steelhead Male

93/09/08 At BU TAGGED (in the Bulkley)

Moricetown Falls

split caudal & dorsal, GN marks

Gear: River Dipnet Group: Moricetown

of significant and the original like Moricetown Band

RR#1,Box 1,site 15 Smithers B.C.VOJ-2NO

Larry Joseph, git/wet-842-6511 847-3630 Notify? No

RECAP 1 93/10/08% At BU 688 (in the Bulkley)
Barrett Station

Gear: ANgling Fate: Rel

Group: Sport Up Skeena

Dave Jaarsma Box 1553

Houston VOJ 1ZO

Ltr? Y Hat? Y Letter sent: Y

RECAP 2 93/10/17 At BU (in the Bulkley) Walcotten Brad Duly 1

Gear: Angling Fate: Rel

Group: Sport Up Skeena

Carl Vandermark

Box 4148 Smithers

VOJ 2NO 847 9775 Ltr? Y Hat? Y Letter sent: N

FISH Steelhead Male

TAGGED 93/09/08 At BU

(in the Bulkley) Moricetown Falls

Gear: River Dipnet

Group: Moricetown

RECAP 1 93/11/18 At BU

(in the Bulkley)

92 km.

Gear: ANgling Fate: Rel

Group: Sport Up Skeena

Moricetown Band RR#1,Box 1,site 15 Smithers B.C.VOJ-2NO

Larry Joseph, git/wet-842-6511

847-3630

Notify? 1

Gord Wolfe Box 2993

Smithers, BC

. VOJ 2NO

847 4142

Ltr? Y Hat? Y

Letter sent: N

Appendix IV. Recapture records for coho tagged at Moricetown Falls, 1993.

FISH TAGGING RECORD As at 93/11/01

FISH Coho Male

PAGGED 93/08/20 At BU (in the Bulkley)

Moricetown Falls

Gear: River Dipnet Group: Moricetown

RECAP 1 93/09/15 At MO

garan kasalan merepatah

(in the Morice)

Gear: Angling Fate: Rel 845 2639 Ltr? N Hat? N

Group: Sport Up Skeena

Moricetown Band RR#1,Box 1,site 15 Smithers B.C.VOJ-2NO

Larry Joseph, git/wet-842-6511 847-3630 Notify? N

Warner Jarvis
Box 159

Houston VOJ 1ZO

Letter sent: N

FISH TAGGING RECORD

Tag O N04230 As at 93/11/25

FISH Coho Male

网络马马克 电电流电路器

TAGGED 93/08/20 At BU

(in the Bulkley) Moricetown Falls

Jack

RECAP 1

Gear: River Dipnet Group: Moricetown

93/10/03 At BU

(in the Bulkley)

Tobbogan Creek Fence

Gear: River Trap Fate: Rel

Group: BC Environment

Toboggan Cr.Enh.Soc

Moricetown Band

RR#1,Box 1,site 15 Smithers B.C.VOJ-2NO

RR #1

Smithers, BC

VOJ 2NO 847 4458 Ltr? N Hat? N Letter sent: N

Larry Joseph, git/wet-842-6511

847-3630 Notify? N

Coho Male FISH

TAGGED 93/08/24 At BU (in the Bulkley) Moricetown Falls

split dorsal and caudal

Gear: River Dipnet Group: Moricetown

RECAP 1 93/10/02 At BU (in the Bulkley)

Toboggan Creek Fence

Gear: River Trap Fate: Rel

Group: BC Environment

RECAP 2, 93/10/05 At BU (in the Bulkley)

Little Bulkley Fence

Gear: River Trap Fate: Rel

Group: BC Environment

Moricetown Band RR#1,Box 1,site 15 Smithers B.C.VOJ-2NO

Larry Joseph, git/wet-842-651 847-3630 Notify?

Toboggan Cr.Enh. Soc

Smithers, BC

VOJ 2NO

Ltr? N Hat? 847 4458

Letter sent: N

Toboggan Cr.Enh.Soc.

RR #1

Smithers, BC

VOJ 2NO 847 4458 Ltr? Y Hat?

Letter sent: N

FISH TAGGING RECORD

Tag O N03336 As at 93/11/24

Coho Male FISH

93/08/24 At BU TAGGED (in the Bulkley)

Moricetown Falls

split caudal

Gear: River Dipnet Group: Moricetown

RECAP 1 93/09/02 At BU

(in the Bulkley)

Moricetown Robin Johnson

Gear: River Dipnet Fate: Rel

Group: Moricetown

Moricetown Band RR#1,Box 1,site 15 Smithers B.C.VOJ-2NO Larry Joseph, git/wet-842-6511 847-3630 Notify?

Robin Johnson

RR#1, Box 25, Site 15

Moricetown, BC

VOJ 2NO

VOJ 2NU 847 3630 Ltr? N Hat?

Letter sent: Y

FISH TAGGING RECORD ------

FISH Coho Male

TAGGED 93/08/26 At BU (in the Bulkley) Moricetown Falls

Jack

Gear: River Dipnet Group: Moricetown

RECAP 1 93/09/?? At BU (in the Bulkley)

Toboggan Creek Fence

Gear: River Trap Fate: Rel

Group: BC Environment

Mike O'Neil

RR #1

Smithers, BC

RR#1,Box 1,site 15 Moricetown Band

Smithers B.C.VOJ-2NO

Larry Joseph, git/wet-842-6511

847-3630 Notify? N

VOJ 2NO

847 4458 Ltr? N Hat? N

Letter sent: Y

FISH TAGGING RECORD

Tag O N04511 As at 93/11/25

FISH Coho Male

TAGGED 93/08/26 At BU (in the Bulkley) Moricetown Falls

Gear: River Dipnet Group: Moricetown

RECAP 1 93/10/31 At BU (in the Bulkley)

Toboggan Creek G.N. Assess

Gear: River Gillnet Fate: Rel 847 4458
Group: BC Environment Letter sent: N

Moricetown Band RR#1,Box 1,site 15 Smithers B.C.VOJ-2NO

Larry Joseph, git/wet-842-6511 847-3630 Notify? N

Toboggan Cr.Enh.Soc.

RR #1

Smithers, BC

VOJ 2NO 847 4458

Ltr? N Hat? N

FISH Coho Male

TAGGED 93/08/26 At BU (in the Bulkley)

Moricetown Falls

Gear: River Dipnet Group: Moricetown

RECAP 1 93/10/25 At BU

(in the Bulkley)

Little Bukley fence

Gear: River Trap Fate: Rel

Group: BC Environment

Moricetown Band RR#1,Box 1,site 15 Smithers B.C.VOJ-2NO

Larry Joseph, git/wet-842-651:

847-3630

Notify? N

Toboggan Cr.Enh.Soc.

RR #1

Smithers, BC

VOJ 2NO

847 4458 Ltr? N Hat?

Letter sent: N

FISH TAGGING RECORD

Tag 0 N04512 As at 93/09/20

FISH Coho Male

2

TAGGED 93/08/26 At BU (in the Bulkley)

Moricetown Falls

Jack

Gear: River Dipnet Group: Moricetown

Mike O'Neil

RECAP 1 93/09/?? At BU

(in the Bulkley)

Toboggan Creek Fence

Gear: River Trap Fate: Rel

Group: BC Environment

Ltr? N Hat? N

Larry Joseph, git/wet-842-6511

847-3630 Notify? 1.

Letter sent: N

Moricetown Band

RR#1,Box 1,site 15

Smithers B.C.VOJ-2NO

FISH Coho Male

TAGGED 93/09/02 At BU (in the Bulkley)

Moricetown Falls

Gear: River Dipnet Group: Moricetown

RECAP 1 93/10/28 At BU

.

(in the Bulkley)

Toboggan Creek Fence

Form A Comp Gear: River Trap Fate: Rel 2000

Group: BC Environment

Moricetown Band RR#1,Box 1,site 15 Smithers B.C.VOJ-2NO

Larry Joseph, git/wet-842-6511

847-3630 Notify? N

Toboggan Cr.Enh.Soc.

RR #1

and the second

Smithers, BC

VOJ 2NO

847 4458 Ltr? N Hat? N Letter sent: N

FISH TAGGING RECORD AS at 93/11/25

FISH Coho Male

TAGGED 93/09/03 At BU (in the Bulkley) Moricetown Falls

Gear: River Dipnet Group: Moricetown

RECAP 1 93/10/27 At BU (in the Bulkley)

Toboggan Creek Fence

Gear: River Trap Fate: Rel 847 4458 Ltr? N Hat? N

Group: BC Environment

Moricetown Band RR#1,Box 1,site 15 Smithers B.C.VOJ-2NO

Larry Joseph, git/wet-842-6511 847-3630 Notify? N

Toboggan Cr.Enh.Soc

RR #1

Smithers, BC VOJ 2NO

Letter sent: N

FISH Coho Female

TAGGED 93/09/04 At BU

(in the Bulkley) Moricetown Falls split caudal

Gear: River Dipnet

Group: Moricetown

RECAP 1 93/10/04 At BU

(in the Bulkley)

Toboggan Creek fence

Gear: River Trap Fate: Rel

Group: BC Environment

Moricetown Band RR#1,Box 1,site 15

Smithers B.C.VOJ-2NO Larry Joseph, git/wet-842-6511

847-3630

Notify? N

Toboggan Cr.Enh.Soc

RR #1

Smithers, BC

VOJ 2NO

847 4458 Ltr? N Hat?

Letter sent: N

FISH TAGGING RECORD AND THE PROPERTY OF THE

Tag O N04565 As at 93/11/25

FISH Coho Unknown sex

TAGGED 93/09/04 At BU

reserved a gro

(in the Bulkley) Moricetown Falls

Gear: River Dipnet

Group: Moricetown

RECAP 1 93/10/27 At BU

(in the Bulkley)

Toboggan Creek Fence

Group: BC Environment

Moricetown Band

RR#1,Box 1,site 15 Smithers B.C.VOJ-2NO

Larry Joseph, git/wet-842-6511

847-3630 Notify? ...

Toboggan Cr.Enh.Soc.

RR #1

Smithers, BC

VOJ 2NO

Gear: River Trap Fate: Rel 847 4458 Ltr? N Hat? N

Letter sent: N

FISH TAGGING RECORD _____

FISH Coho Unknown sex

TAGGED 93/09/07 At SK (in the Skeena)

TYEE GN

Gear: River Gillnet Group: Tyee Test Fish

•••

RECAP 1 93/10/18 At BU (in the Bulkley)

Toboggan Creek Fence

Gear: River Trap Fate: Rel Group: BC Environment

JOHNSON, Robert 344 6th ave east Prince Rupert

V8J-1W4 (Silver Token) (Tyee)

624-4843 Notify?

Toboggan Cr.Enh.Soc

RR #1

Smithers, BC

VOJ 2NO 847 4458 Ltr? N Hat? 1

Letter sent: N

FISH TAGGING RECORD ------

Tag O N04626 As at 93/11/25

FISH Coho Male

TAGGED 93/09/08 At BU (in the Bulkley) Moricetown Falls split caudal

Gear: River Dipnet

Moricetown Band RR#1,Box 1,site 15 Smithers B.C.VOJ-2NO

Larry Joseph, git/wet-842-6511 847-3630 Notify? N

Group: Moricetown

RECAP 1 93/10/27 At BU (in the Bulkley) Toboggan Creek Fence

Gear: River Trap Fate: Rel Group: BC Environment

Toboggan Cr.Enh.Soc

RR #1

Smithers, BC

VOJ 2NO

Letter sent: N Ltr? N Hat? 1

FISH Coho Male

TAGGED 93/09/08 At BU (in the Bulkley) Moricetown Falls

Gear: River Dipnet Group: Moricetown

RECAP 1 93/10/19 At BU
(in the Bulkley)
Toboggan Creek Fence

Gear: River Trap Fate: Rel

Group: BC Environment

Moricetown Band RR#1,Box 1,site 15 Smithers B.C.VOJ-2NO Larry Joseph,git/wet-842-6511 847-3630 Notify? N

Toboggan Cr.Enh.Soc.

RR #1 Smithers, BC VOJ 2NO

847 4458 Ltr? N Hat?

Letter sent: N

FISH TAGGING RECORD

Tag 0 N04619 As at 93/11/25

FISH Coho Male

TAGGED 93/09/08 At BU
(in the Bulkley)
Moricetown Falls
parasite infection
Gear: River Dipnet

Group: Moricetown

RECAP 1 93/10/04 At BU
(in the Bulkley)
Toboggan Creek fence

Gear: River Trap Fate: Rel

Group: BC Environment

Moricetown Band
RR#1,Box 1,site 15
Smithers B.C.VOJ-2NO
Larry Joseph,git/wet-842-6511
847-3630
Notify? N

Toboggan Cr.Enh.Soc RR #1 Smithers, BC VOJ 2N0

847 4458 Ltr? N Hat? N

Letter sent: N