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Catalogue of Salmon Streams and Spawning Escapements of Statistical Area 26 (Kyuquot Sound)

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Fisheries and Oceans
Canadian Data Report of
Fisheries and Aquatic Sciences
No. 183

April 1980

CATALOGUE OF SALMON STREAMS AND SPAWNING ESCAPEMENTS OF
STATISTICAL AREA 26(KYUQUOT SOUND)

by

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ABSTRACT

Marshall, D.E., M.J. Comfort, and E.W. Britton. 1980. Catalogue of salmon streams and spawning escapements of Statistical Area 26(Kyuquot Sound).

Catalogue containing each stream's location, spawning distribution, barriers and points of difficult ascent, escapement records and other general data pertaining to the stream. The catalogue also includes a topographical map of the stream's location and in some cases a sketch which further describes the surrounding area.

Keywords: British Columbia, Statistical Area 26, salmon streams, spawning escapements.

RÉSUMÉ

Marshall, D.E., M.J. Comfort, and E.W. Britton. 1980. Catalogue of salmon streams and spawning escapements of Statistical Area 26(Kyuquot Sound).

Le présent catalogue donne l'emplacement de chaque cours d'eau, la répartition des frayères, des barrières et des endroits difficiles à franchir, et fournit des données sur la remonte et d'autres données générales portant sur les cours d'eau. Il contient aussi des cartes topographiques donnant l'emplacement des cours d'eau et, dans certains cas, des dessins, pour une meilleure description des environs.

Mots clés: Colombie-Britannique, aire statistique N° 26, cours d'eau à saumon, saumon de remonte.

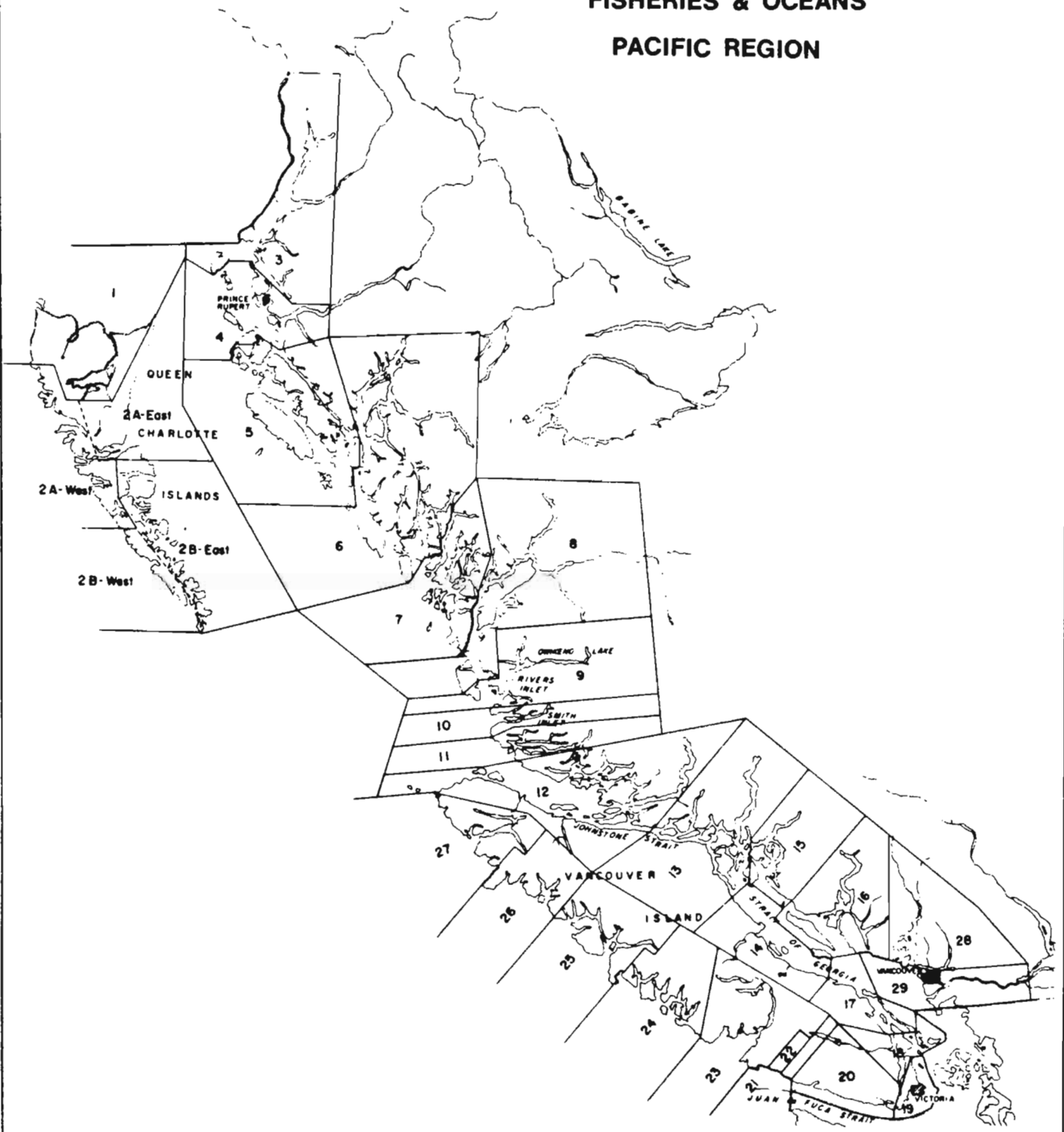
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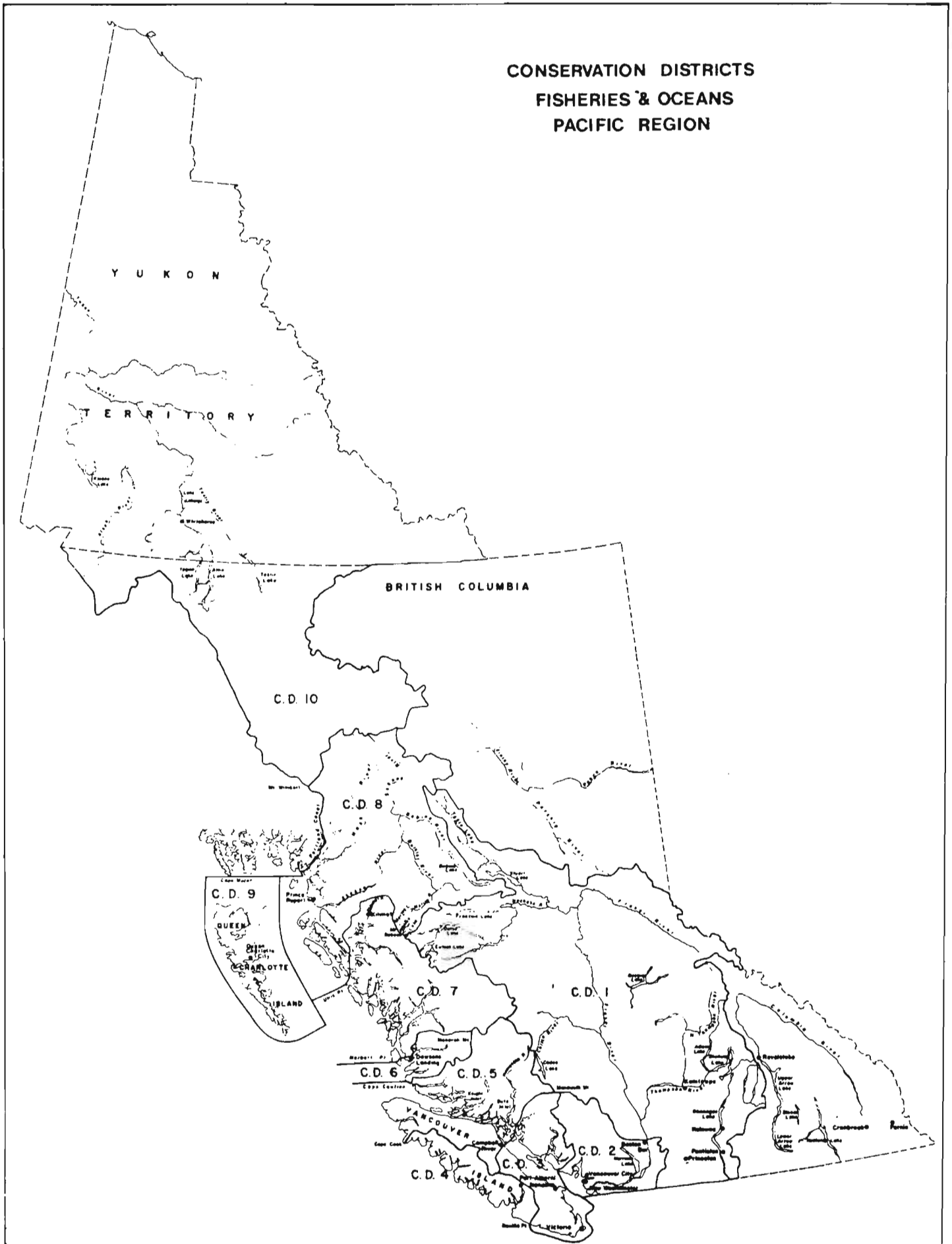
STREAM DATA

AMAI CREEK	1
ARTLISH RIVER	5
BATTLE RIVER	9
BRITISH CREEK	13
CACHALOT CREEK	17
CHAMISS CREEK	21
CLANNINICK CREEK	25
COCKSHUTTLE RIVER	(see Kashutl River)
EASY CREEK	29
ELAINE CREEK	33
FAIR HARBOUR RIVER	(see Kaouk River)
JANSEN LAKE CREEK	37
KAOUK RIVER	41
KAPOOSE CREEK	45
KASHUTL RIVER	49
KAUWINCH RIVER	53
MALKSOPE RIVER	59
MCKAY COVE CREEK	63
NARROWGUT CREEK	67
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OUOUKINSH RIVER	75
POWER RIVER	79
TAHSISH RIVER	83
TATCHU CREEK	87
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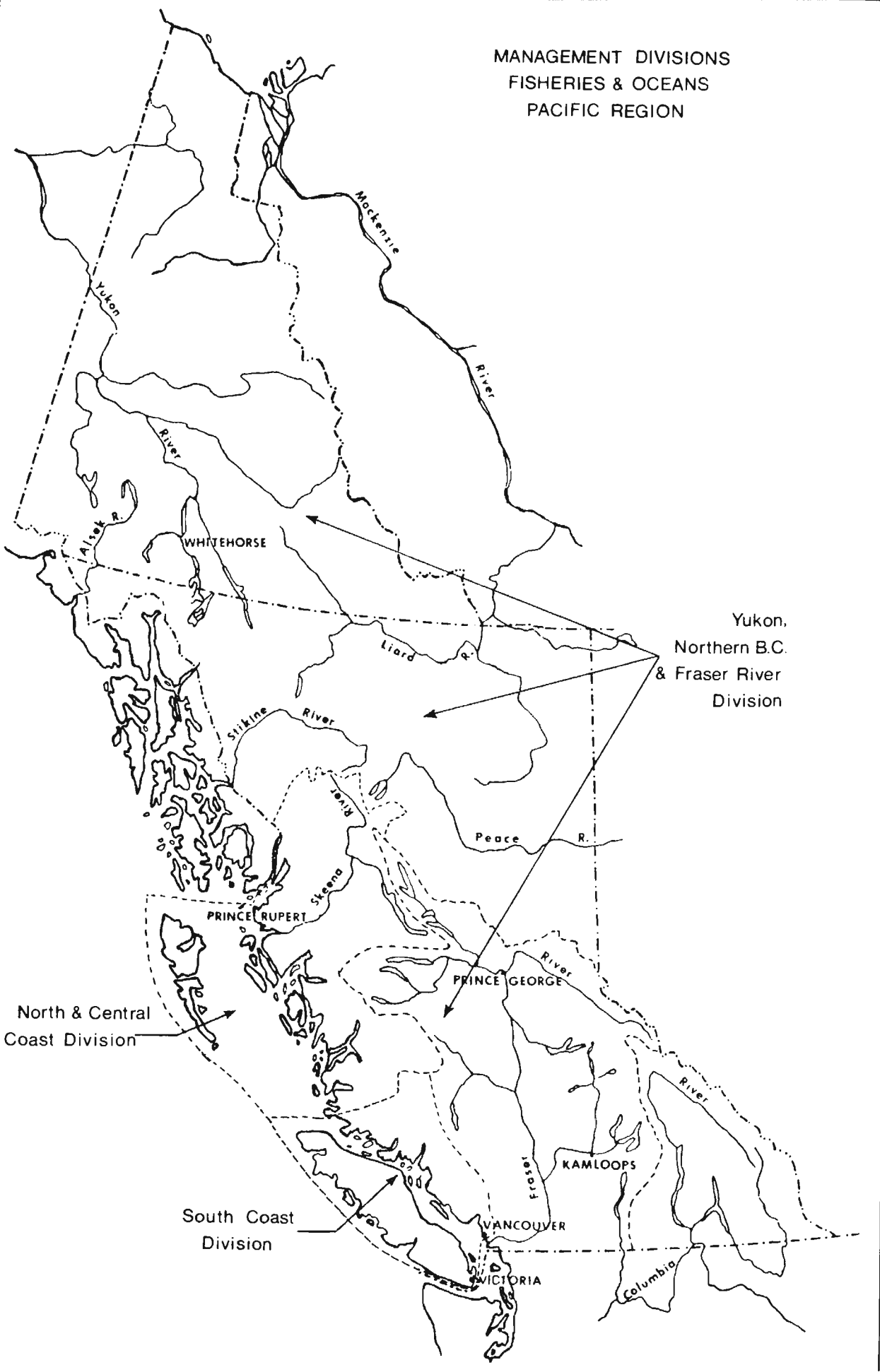
**STATISTICAL AREAS
FISHERIES & OCEANS
PACIFIC REGION**



CONSERVATION DISTRICTS
FISHERIES & OCEANS
PACIFIC REGION



MANAGEMENT DIVISIONS
FISHERIES & OCEANS
PACIFIC REGION



MAP REFERENCES

Roads:

hard surface, all weather		more than 2 lanes
hard surface, all weather		2 lanes
loose surface, all weather		2 lanes wide or more
" less than 2 lanes		all weather dry weather
Private Road, Trail		Private Road Trail

Railways:

normal gauge, multiple track		Station
normal gauge, single track		Stop Siding
abandoned, or under construction		
narrow gauge, single track		
Bridge, underpass or overpass		
Tunnel		

Boundary, International	
" Province	
" County or District	
" Township or Parish	
" City or Town	
" Reservation, Indian, Military, etc	
Power Transmission Line	
Telephone or Telegraph, trunk route	
Horizontal Control Point	
Boundary Marker	
Bench Mark	
Spot Elevation, (in feet)	
Mine or Pit	

Road, Hard Surface, All Weather		2 Lanes
" Loose Surface, All Weather		2 Lanes
" Loose Surface, Less than 2 lanes		All Weather Dry Weather
" Private (Logging, Mining etc)		
" Four Wheel Drive		
Trail		
Railway		
Main Telephone Line		
Main Electric Power Line		
Horizontal Control Station		
Contours (Interval 500 feet)		5000
Elevation in feet above mean sea-level		2584 - 6312'
Intermittent Stream		
Swamp or Marsh		
Dam		
Spring		
Navigation Light		
Mine		
Glacier		
Customs Office		

House, Building	
School	
Church	
" with conspicuous Tower or Spire	
Post Office	
Tower, Radio Mast, Lookout, etc.	
Cemetery	
Quarry	
Sand or Gravel Pit	
Cliff	
Cutting	
Embankment	
Saw Mill	

Lighthouse	
Wharf or Pier	
Foreshore Flats	
Swamp or Marsh	
Lake or Pond, intermittent	
Glacier or Snowfield	
Stream, intermittent	
Irrigation Canals, Ditches	
Inundated Land, seasonal	
Contours, elevation	
" depression	
" approximate	
Forest, unclassified	

Surveyed timber license number		TL 2841
Lot number		L 124 or S 66
Building		
School		
Non-perennial stream		
Marsh or Swamp		
Glacier		
Foreshore flats		
Contours, elevation		500
Contours, depression		
Forest		

City or large town	
Town	
Village or settlement	
Streams	
intermittent or dry	
indefinite	
Irrigation canal or ditch	
Rapids, falls	
Aerodrome	
Landing ground	

Post office	
School	
Church	
Intermittent lake	
Marsh or swamp	
Sand, gravel or mud	
Wooded areas	
Seaplane base	
Seaplane anchorage	

Streams		Dam	
Highways		Log Jams	
Roads		Log	
Trails		Power Line	
Houses		Coho	
Railroad		Chum	
Falls		Pink	
Rapids		Chinook	
Rip-Rap		Sockeye	
Bridges			

STANDARDS USED ON STREAM DATA PAGE

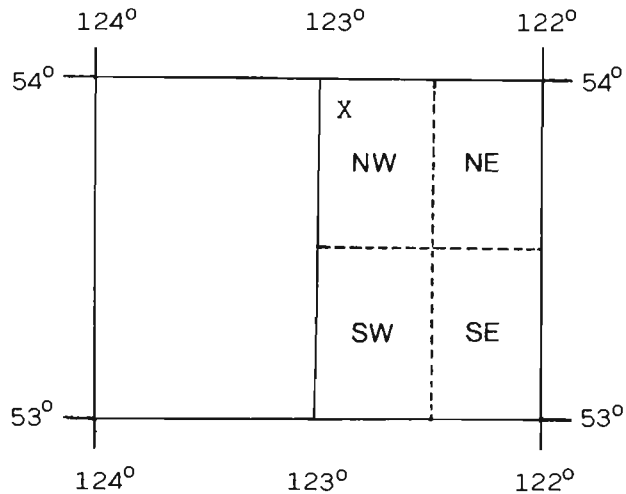
Name of Stream: Name as given in Gazetteer of Canada, British Columbia 1966 edition; local or non-gazetted names are added in lower case type.

Conservation District: As defined by the Conservation and Protection Service (April 1965).

Statistical Area: As defined by Department of the Environment, Fisheries Operations Statistical Map (January 1974).

Location and Position: Defined by quadrant indexing. Each geographical quadrilateral of the earth's surface of 1 degree in extent in latitude and longitude is divided into the SE, SW, NE and NW quarters. The south-east corner of each quadrilateral gives the initial point for the figure of reference (Gazetteer of Canada).

EXAMPLE "X"
53° 122° NW



Length: The portion of the stream accessible to spawning salmon.

Width: Average width, estimated to the nearest metre for the described length.

Drainage: Area in square kilometres of the entire drainage basin feeding the stream.

Composition:

Bedrock	bedrock
Boulder	>256 mm
Coarse	50.9 - 256 mm
Fine	3.37 - 50.8 mm
Sand & Silt	<3.37 mm
Unclassified	where bottom cannot be observed, e.g. log jams, pools, water colour, etc.

Gradient: Expressed as a percentage

Wetted Area: Number of square metres of stream bed under water at average flows within the described length.

Spawning Area: Estimated square metres of stream bed suitable for salmon spawning within the described length.

Discharge: Mean annual discharge. Maximum and minimum values are either daily means or instantaneous discharges. The latter are identified by (Inst.). Discharge data is taken from "Historical Stream Flow Summary", British Columbia, Water Survey of Canada.

Temperature: As described. (°C)

Barriers and Points of Difficult Ascent: Complete and partial barriers to salmon and their distance from the stream mouth. Species likely to be affected may be listed. Both natural and man-made obstructions are defined.

Spawning Distribution: Portion of the stream utilized by each species. Distribution is indicated by brief comments opposite the species.

Potential of Inaccessible Portion of Stream: Indicates whether or not the inaccessible portion of the stream could be utilized by spawning salmon.

General Remarks: Emphasizes features of stream and spawning populations. Also includes industrial activity, routes of accessibility, etc. The comments with dates are taken from "Annual Reports of Salmon Streams & Spawning Grounds" (B.C. 16's). In some cases, references to additional information not included in the General Remarks may be given.

Escapement Records: The escapement represents the mid point of the coded range of escapement for each species. For example: the letter "H" representing 5000-10000 fish would be entered as 7500. Where absolute numbers are provided by Fisheries Personnel, these numbers are entered. N/O means the stream was inspected but no fish were observed; UNK means there was evidence of fish present but no estimates were made; NO RECORDS means no escapement records for the applicable years could be found in the escapement files.

Timing: Dates which salmon arrive in the stream, begin to spawn, reach peak spawning period and finish spawning.

E = early (1st to 10th of the month)

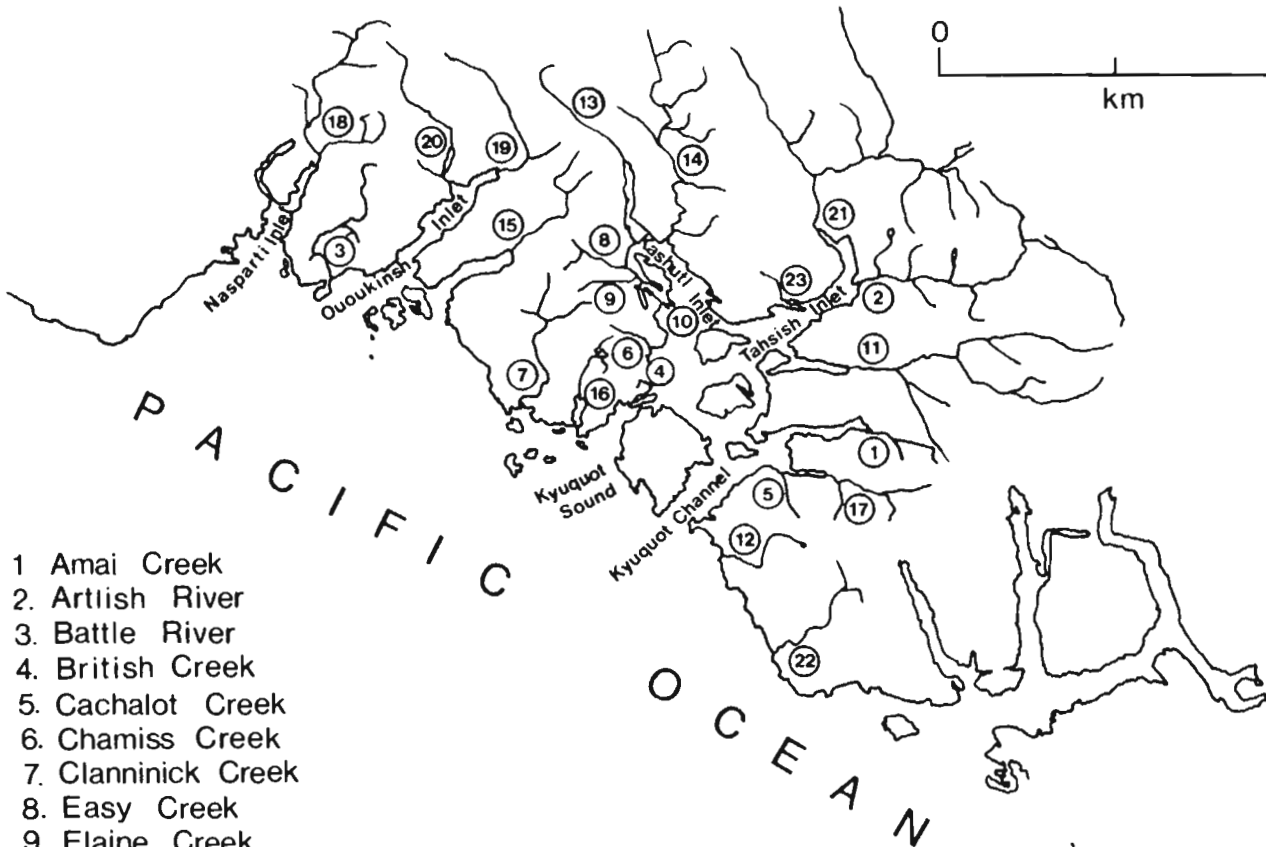
M = mid (11th to 20th of the month)

L = late (21st to end of the month)

NB: Distance references are from the mouth of the stream unless otherwise stated.

SALMON SPAWNING STREAMS STATISTICAL AREA 26

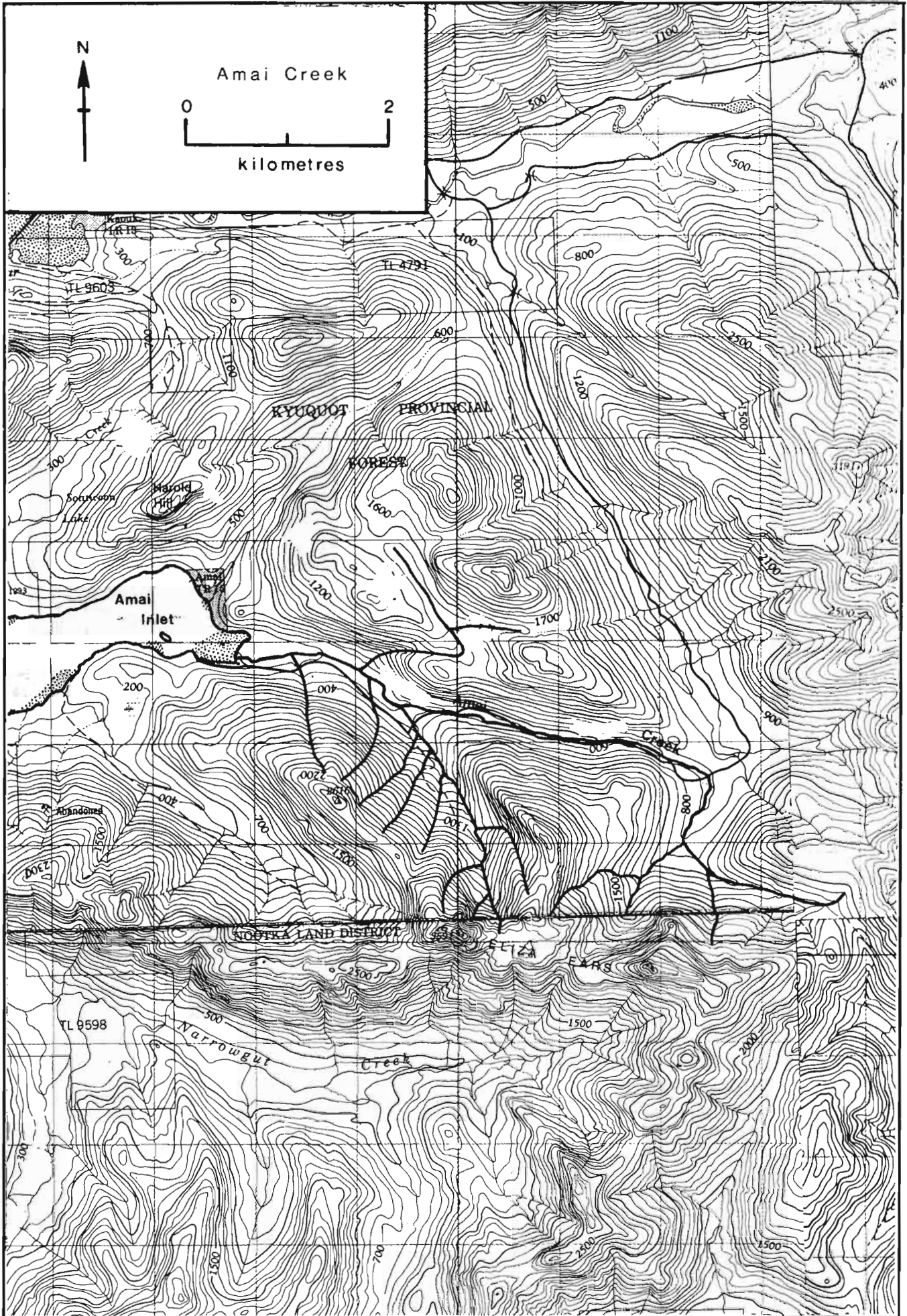
VANCOUVER ISLAND



1. Amai Creek
2. Artlish River
3. Battle River
4. British Creek
5. Cachalot Creek
6. Chamiss Creek
7. Clanninick Creek
8. Easy Creek
9. Elaine Creek
10. Jansen Lake Creek
11. Kaouk River
12. Kapoose Creek
13. Kashutl River
14. Kauwinch Creek
15. Malksope River
16. McKay Cove Creek
17. Narrowgut Creek
18. Naspatti River
19. Ououkinsh River
20. Power River
21. Tahsish River
22. Tatchu Creek
23. Yaku River

STREAM DATA

STATISTICAL AREA 26



NAME OF STREAM AMAI CREEK
 CONSERVATION DISTRICT 4 STATISTICAL AREA 26
 LOCATION OF MOUTH Flows W. into head of Amai Inlet, Rupert Dist.
 POSITION 50 127 SE
 LENGTH 4 km WIDTH 10.7 m DRAINAGE 13.7 km²
 COMPOSITION: BEDROCK 25% BOULDER 35% COARSE 35% FINE 5%
 SILT & SAND _____ UNCLASSIFIED _____

PERCENT GRADIENT

0.00 - 0.25	
0.25 - 0.50	
0.50 - 0.75	
0.75 - 1.00	
>1.00	throughout

WETTED AREA 42800 m² SPAWNING AREA 17120 m²

DISCHARGE (m³/s) _____

TEMPERATURE (°C) 6.5°C (70/11/12)

BARRIERS OR POINTS OF DIFFICULT ASCENT _____
Impassable canyon at 4 km.

SPAWNING DISTRIBUTION

SPECIES	SECTION OF STREAM USED
SOCKEYE	
CHINOOK	lower 3 km
COHO	lower 3 km
CHUM	lower 2 km
PINK (ODD YEAR)	
PINK (EVEN YEAR)	lower 3 km
STEELHEAD	

POTENTIAL OF INACCESSIBLE PORTION OF STREAM _____

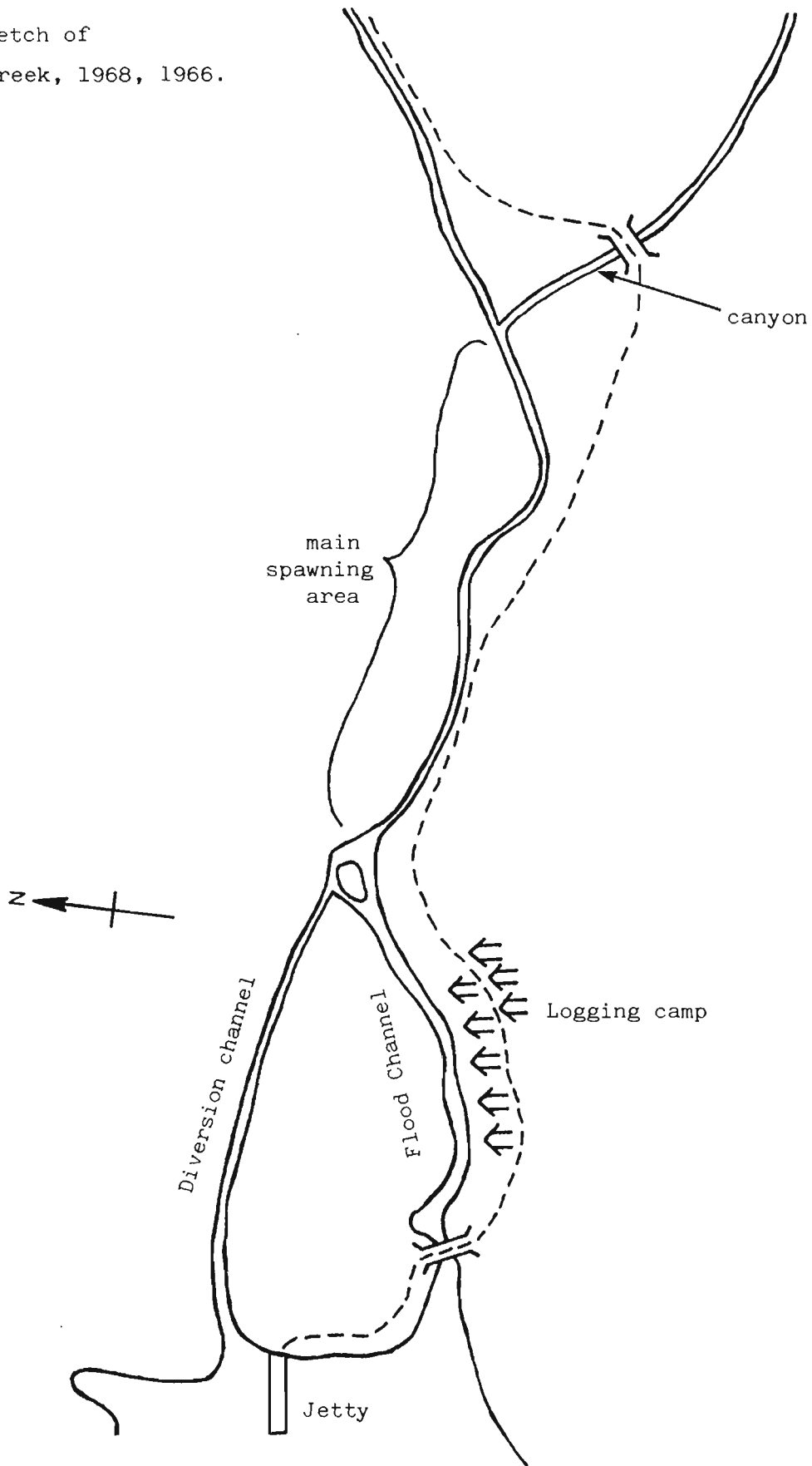
GENERAL REMARKS

1962. A logging contractor has changed the course of the river by making a diversion from the regular channel in the lower 3/4 mile.(1.2 km)
 1963. Chum have been using the new channel created by the diversion. During low water levels, the channel dries out and eggs are destroyed.
 1965. The stream is now completely diverted, except during high water when both channels contain water.

References:

Envirocon Ltd., 1977. Kyuquot Sound salmonid enhancement study.
 Reconnaissance and general feasibility study. Prepared for: Canada, Dept. of Fisheries and Environment: 85 pp.

Sketch of
Amai Creek, 1968, 1966.



ESCAPEMENT RECORD FOR AMAI CREEK

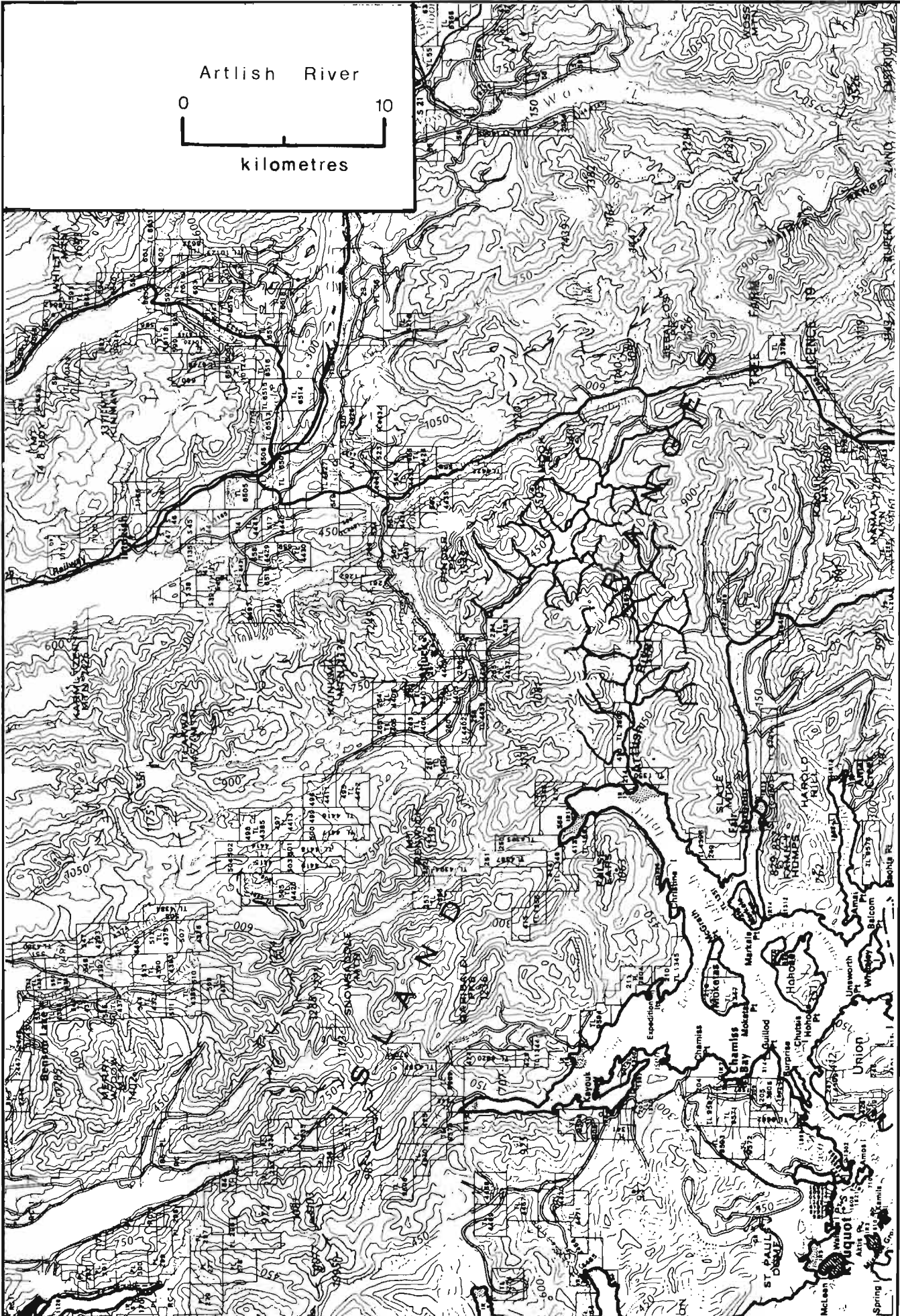
YEAR	SOCKEYE	CHINOOK	COHO	CHUM	PINK	STEELHEAD
1947			750	3500		
48			400	3500	75	
49			200	3500		
50			400	7500		
51			200	3500		
52			400	7500		
53			400	3500		
54		1	750	3500	25	
55		25	1500	1500		
56		N/O	1500	750	25	
57		25	400	3500		
58		N/O	400	7500	N/O	
59		25	200	1500		
60		25	400	3500		
61		25	25	750		
62		N/O	200	3500		
63		25	25	400	N/O	
64		N/O	25	750	N/O	
65		N/O	200	400		
66			400	400		
67			N/O	400	N/O	
68		N/O	75	750		
69				75		
70			25	400		
71		25	200	200		
72		25	75	400	75	
73		25	25	1500		
74		25	25	400		
75			NOT INSPECTED			
76			25	200	25	
77					16	
78				2500		
79		25	121	304		25
80						
81						
82						
83						
84						
85						

TIMING

ARRIVE				E. OCT	
START		SEPT	E. OCT	M. OCT	
PEAK		SEPT	L. OCT	L. OCT	
END		L. OCT	NOV	E. NOV	

REMARKS

1958. Includes 1500 chum from two unnamed creeks near mouth.
 1979. Coho averaging 1.5-2 kg. with some up to 5.5 kg.



NAME OF STREAM ARTLISH RIVER
 CONSERVATION DISTRICT 4 STATISTICAL AREA 26
 LOCATION OF MOUTH Flows W. into Tahsish Inlet, N. of Kaouk Inlet, Rupert Dist.
 POSITION 50 127 SE
 LENGTH 20 km WIDTH 15 m DRAINAGE 95.8 km²
 COMPOSITION: BEDROCK _____ BOULDER 20% COARSE 30% FINE 25%
 SILT & SAND 25% UNCLASSIFIED _____

PERCENT GRADIENT

0.00 - 0.25	
0.25 - 0.50	0 - 8 km
0.50 - 0.75	
0.75 - 1.00	
> 1.00	

WETTED AREA 300000 m² SPAWNING AREA 165000 m²

DISCHARGE (m³/s) 2 m³/sec (77/8/13)

TEMPERATURE (°C) 3.5°C (52/2/9) 2°C (52/2/26)

BARRIERS OR POINTS OF DIFFICULT ASCENT _____

SPAWNING DISTRIBUTION

SPECIES	SECTION OF STREAM USED
SOCKEYE	
CHINOOK	throughout
COHO	throughout
CHUM	lower 6 km
PINK (ODD YEAR)	
PINK (EVEN YEAR)	lower 6 km
STEELHEAD	

POTENTIAL OF INACCESSIBLE PORTION OF STREAM _____

The upper sections of this river appear to be capable of supporting salmon.

GENERAL REMARKS

1952. This is a good coho stream and it appears that it could support a larger chum run.

1960. The chum run of this river is small compared to similar rivers in the area.(i.e. - Tahsish)

1969. Despite good spawning conditions this stream has never been a large producer.

1971. Logging operations began in the headwaters this year.

1978. Road construction in the upper watershed may result in silting problems.

GENERAL REMARKS(con't)

References:

Envirocon Ltd., 1977. Kyuquot Sound salmonid enhancement study. Reconnaissance and general feasibility study. Prepared for: Canada, Dept. of Fisheries and the Environment: 85 pp.

Sprout, P., 1977. A preliminary report on the salmon resource and potential enhancement opportunities of the northern west coast of Vancouver Island.(Areas 26 and 27) Manuscript in preparation.

ESCAPEMENT RECORD FOR ARTLISH RIVER

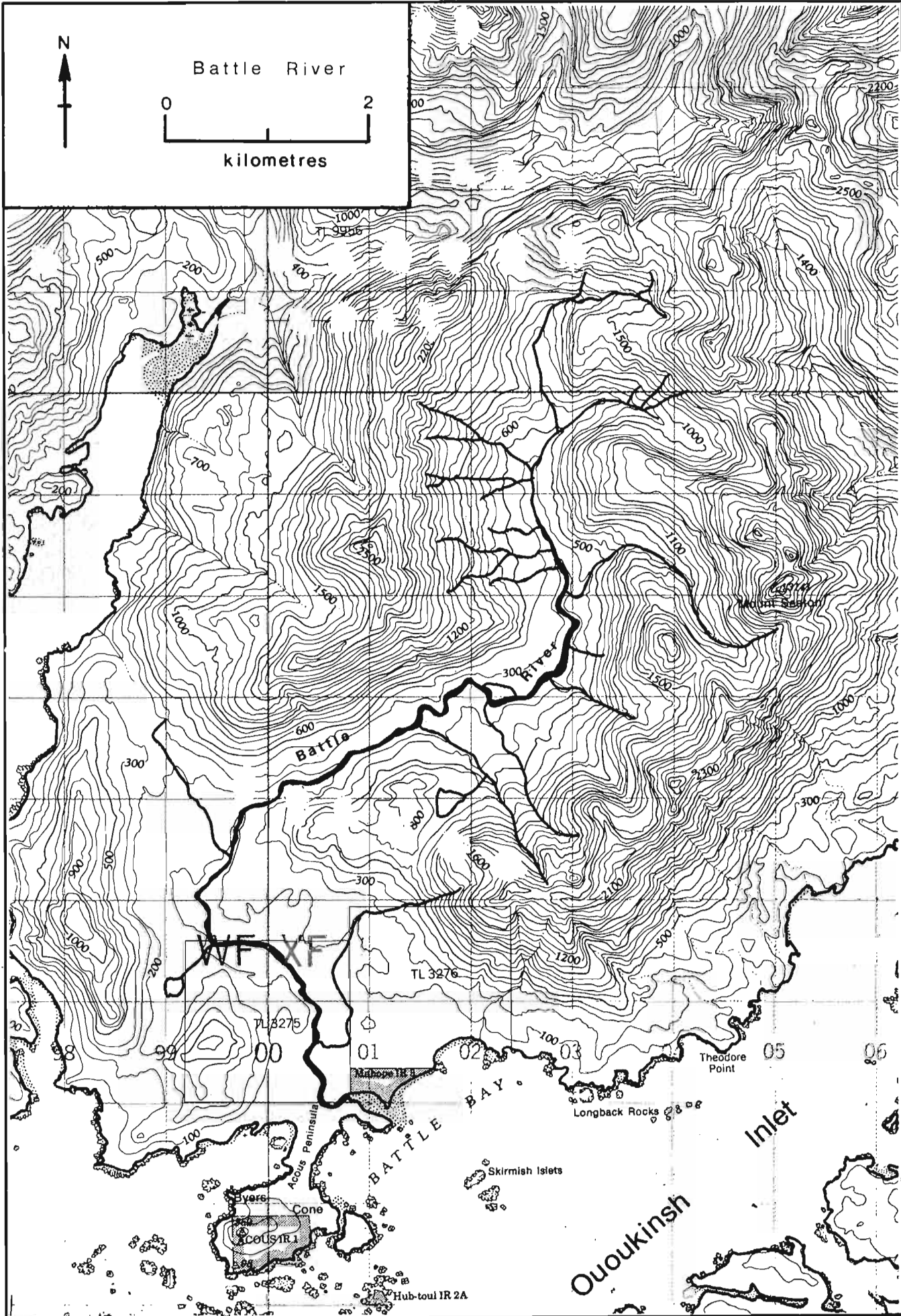
YEAR	SOCKEYE	CHINOOK	COHO	CHUM	PINK	STEELHEAD
1947		400	400	750		
48		3500	3500	3500	75	
49		1500	1500	750		
50		1500	750	3500		
51		750	1500	200		25
52		3500	1500	3500	200	
53		1500	1500	1500		
54		750	3500	5500	400	
55		750	3500	1500		
56		400	7500	1500	750	750
57		400	1500	1500		
58		3500	1500	3500	750	
59		200	750	400		
60		750	750	400	750	
61		400	400	750		
62		200	75	750	N/0	
63		750	400	400	200	
64		25	1500	N/0	25	
65		400	200	750	25	
66		3500	400	200	25	
67		25	200	1500	N/0	
68		25	25	1500	200	
69		200	25	75	25	
70		200	400	750	25	
71		200	400	400		
72		400	75	750	75	
73		750	750	3500		
74		200	750	750	750	
75		25	25	750		
76		25	25	200	15000	25
77		60	100	400		
78				2100	2000	
79		40	100	500	30	20
80						
81						
82						
83						
84						
85						

TIMING

ARRIVE		SEPT	SEPT	SEPT	SEPT	
START		M. SEPT	OCT	E. OCT	M. SEPT	
PEAK		E. OCT	M. OCT	L. OCT	L. SEPT	
END		M. OCT	L. OCT	L. NOV	M. OCT	

REMARKS

There is a steelhead winter/spring run in this river.



NAME OF STREAM _____ (Battle River)
 CONSERVATION DISTRICT 4 STATISTICAL AREA 26
 LOCATION OF MOUTH Flows SW. and SE. into Battle Bay, Ououkinsh Inlet, Rupert
 Dist. _____ POSITION 50 127 SW
 LENGTH 7 km WIDTH 9 m DRAINAGE 35 km²
 COMPOSITION: BEDROCK 10% BOULDER 10% COARSE 30% FINE 20%
 SILT & SAND 30% UNCLASSIFIED _____

PERCENT GRADIENT

0.00 - 0.25	
0.25 - 0.50	
0.50 - 0.75	
0.75 - 1.00	
>1.00	throughout

WETTED AREA 63000 m² SPAWNING AREA 31500 m²

DISCHARGE (m³/s) _____

TEMPERATURE (°C) _____

BARRIERS OR POINTS OF DIFFICULT ASCENT _____

Passable log jams at 2 - 3 km.

Passable 3 - 4.5 m falls at 5 km.

SPAWNING DISTRIBUTION

SPECIES	SECTION OF STREAM USED
SOCKEYE	
CHINOOK	to 7 km
COHO	to 7 km
CHUM	to 3 km
PINK (ODD YEAR)	3 - 5 km
PINK (EVEN YEAR)	
STEELHEAD	

POTENTIAL OF INACCESSIBLE PORTION OF STREAM _____

Approximately 50% gravel for about 3-5 km above the falls.

GENERAL REMARKS _____

This river is difficult to reach because it is open to the Pacific Ocean.

BRITISH CREEK - For topographical map refer to page 21.

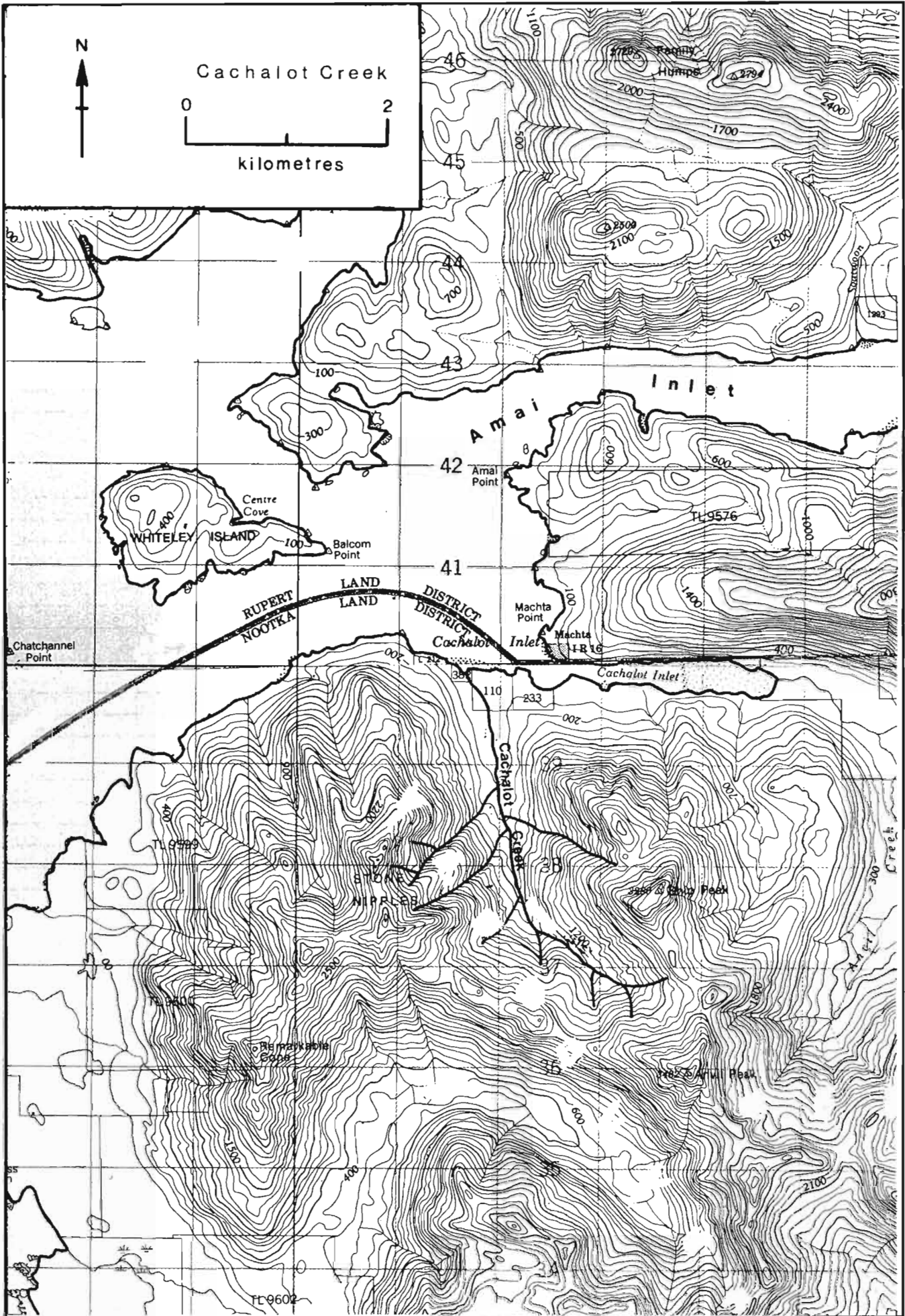
ESCAPEMENT RECORD FOR BRITISH CREEK

YEAR	SOCKEYE	CHINOOK	COHO	CHUM	PINK	STEELHEAD
1947						
48						
49						
50						
51						
52						
53						
54						
55						
56						
57						
58						
59						
60						
61						
62						
63						
64						
65						
66						
67						
68						
69						
70						
71						
72						
73						
74						
75						
76						
77						
78						
79				200		
80						
81						
82						
83						
84						
85						

TIMING

ARRIVE						
START						
PEAK						
END						

REMARKS



NAME OF STREAM CACHALOT CREEK
 CONSERVATION DISTRICT 4 STATISTICAL AREA 26
 LOCATION OF MOUTH Flows N. into Cachalot Inlet, Nootka Dist.
 POSITION 49 127 NE
 LENGTH 3 km WIDTH _____ m DRAINAGE 7 km²
 COMPOSITION: BEDROCK _____ BOULDER _____ COARSE _____ FINE _____
 SILT & SAND _____ UNCLASSIFIED _____

PERCENT GRADIENT

0.00 - 0.25	
0.25 - 0.50	
0.50 - 0.75	
0.75 - 1.00	
>1.00	throughout

WETTED AREA _____ m² SPAWNING AREA _____ m²

DISCHARGE (m³/s) _____

TEMPERATURE (°C) _____

BARRIERS OR POINTS OF DIFFICULT ASCENT _____

SPAWNING DISTRIBUTION

SPECIES	SECTION OF STREAM USED
SOCKEYE	
CHINOOK	
COHO	to 1.6 km
CHUM	scattered up to 0.8 km
PINK (ODD YEAR)	
PINK (EVEN YEAR)	
STEELHEAD	

POTENTIAL OF INACCESSIBLE PORTION OF STREAM _____

GENERAL REMARKS

This is a rocky stream with very little gravel.

References:

Envirocon Ltd., 1977. Kyuquot Sound salmonid enhancement study.
Reconnaissance and general feasibility study. Prepared for:
Canada, Dept. of Fisheries and the Environment: 85 pp.

ESCAPEMENT RECORD FOR CACHALOT CREEK

YEAR	SOCKEYE	CHINOOK	COHO	CHUM	PINK	STEELHEAD
1947						
48						
49						
50						
51			NO RECORDS	UNTIL 1958		
52						
53						
54						
55						
56						
57						
58			25	1500		
59				200		
60			25	750		
61				200		
62				200		
63				75		
64				750		
65				400		
66				750	25	
67				400		
68				400		
69				25		
70				25		
71			25	400		
72			25	1500		
73			25	1500		
74				1500		
75				400		
76				75		
77			NO	RECORD		
78				500		
79				400		
80						
81						
82						
83						
84						
85						

TIMING

ARRIVE						
START				E. OCT		
PEAK				L. OCT		
END				M. NOV		

REMARKS



NAME OF STREAM CHAMISS CREEK
 CONSERVATION DISTRICT 4 STATISTICAL AREA 26
 LOCATION OF MOUTH Flows E. into Chamiss Bay, NE. of M^cKay Cove, Rupert Dist.
 POSITION 50 127 SE
 LENGTH 4 km WIDTH 8 m DRAINAGE 8.8 km²
 COMPOSITION: BEDROCK 10% BOULDER 40% COARSE 30% FINE 20%
 SILT & SAND _____ UNCLASSIFIED _____

PERCENT GRADIENT

0.00 - 0.25	
0.25 - 0.50	0 - 0.5 km
0.50 - 0.75	
0.75 - 1.00	
>1.00	above 0.5 km in both forks

WETTED AREA 32000 m² SPAWNING AREA 16000 m²

DISCHARGE (m³/s) 0.7 m³/sec (77/8/10)

TEMPERATURE (°C) _____

BARRIERS OR POINTS OF DIFFICULT ASCENT _____
Impassable log jam at 4 km.(passable to coho)

SPAWNING DISTRIBUTION

SPECIES	SECTION OF STREAM USED
SOCKEYE	
CHINOOK	
COHO	throughout both forks
CHUM	concentrated in lower 2.5 km
PINK (ODD YEAR)	concentrated in lower 2.5 km
PINK (EVEN YEAR)	
STEELHEAD	

POTENTIAL OF INACCESSIBLE PORTION OF STREAM _____

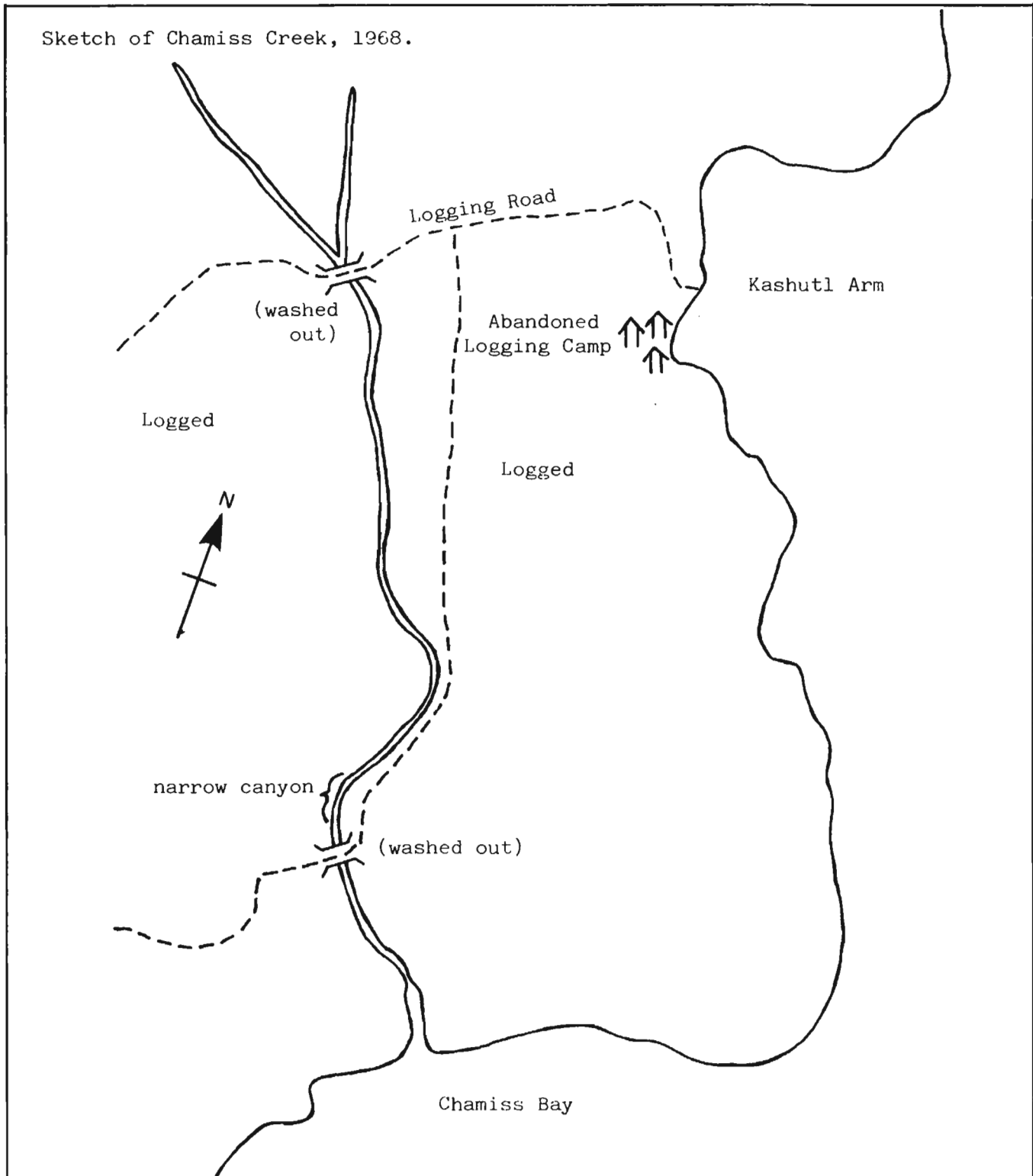
GENERAL REMARKS _____
 1956. This stream is one of the more stable systems of this area. Freshets and dry periods do not affect the water flow as much as other streams.
 1963. Logging started in the upper reaches this year.
 1970. 50% of the log jam was burned out in late September. There will be another attempt to destroy the rest of the jam in the summer or fall.
 1973. There was extensive logging in this area 12 years ago. Now there is little shade protection or bank stability.
 1977. The log jams on this system appear to be breaking up now.

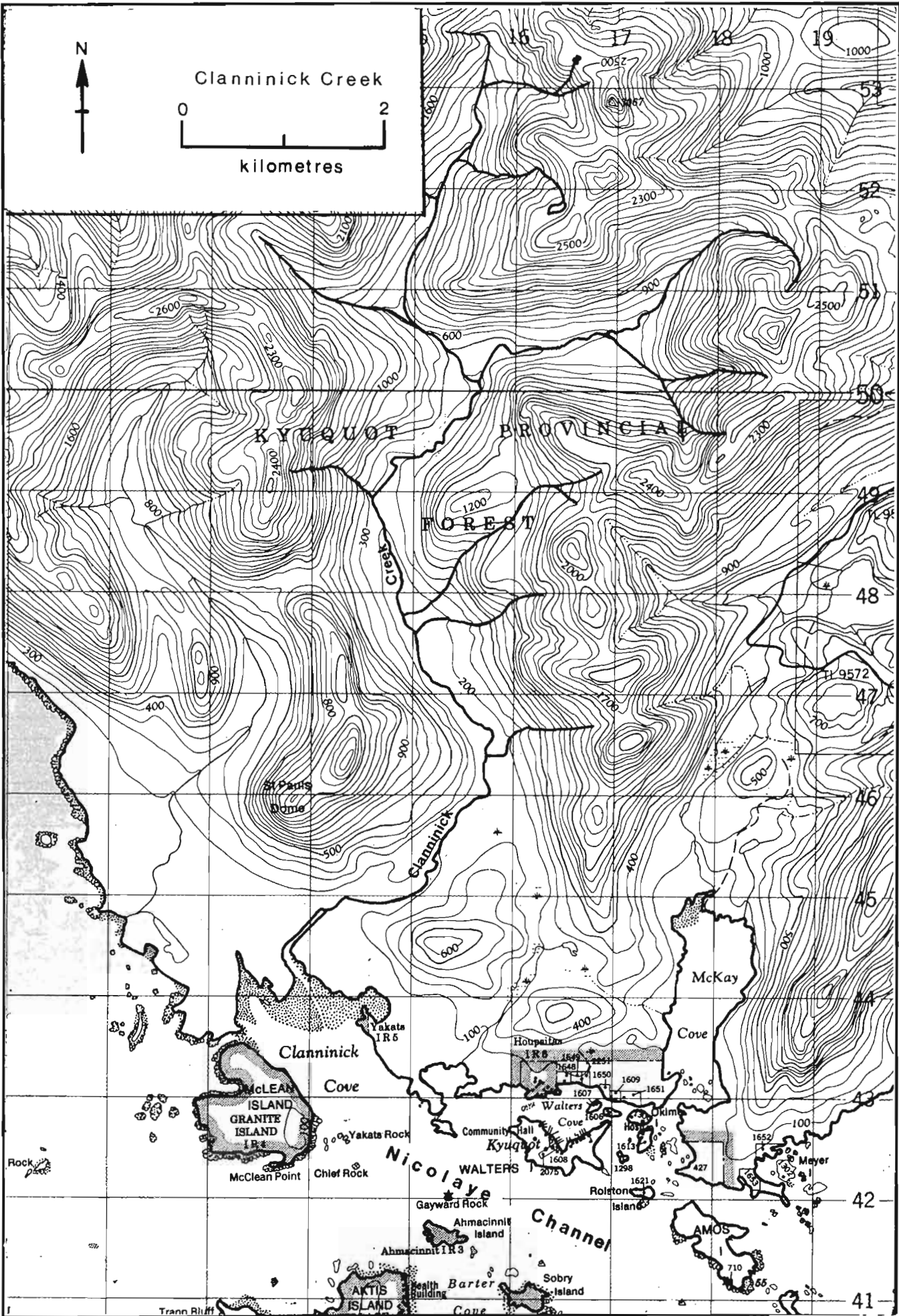
GENERAL REMARKS(con't)

References:

Envirocon Ltd., 1977. Kyuquot Sound salmonid enhancement study. Reconnaissance and general feasibility study. Prepared for: Canada, Dept. of Fisheries and the Environment: 85 pp.

Sprout, P., 1977. A preliminary report on the salmon resource and potential enhancement opportunities of the northern west coast of Vancouver Island.(Areas 26 and 27) Manuscript in preparation.





NAME OF STREAM CLANNINICK CREEK
 CONSERVATION DISTRICT 4 STATISTICAL AREA 26
 LOCATION OF MOUTH Flows SW. into Clanninick Cove, Rupert Dist.
 POSITION 50 127 SE
 LENGTH 4 km WIDTH _____ m DRAINAGE 24 km²
 COMPOSITION: BEDROCK _____ BOULDER _____ COARSE _____ FINE _____
 SILT & SAND _____ UNCLASSIFIED _____

PERCENT GRADIENT

0.00 - 0.25	
0.25 - 0.50	
0.50 - 0.75	
0.75 - 1.00	
>1.00	

WETTED AREA _____ m² SPAWNING AREA _____ m²

DISCHARGE (m³/s) 1 m³/sec (77/8/9)

TEMPERATURE (°C) _____

BARRIERS OR POINTS OF DIFFICULT ASCENT _____

Passable canyon at 1 km.

Impassable series of falls(3 m and 5 m high) at 4 km.(passable to coho)

SPAWNING DISTRIBUTION

SPECIES	SECTION OF STREAM USED
SOCKEYE	
CHINOOK	above canyon
COHO	above canyon - 8 km
CHUM	to 2.5 km, concentrated in the lower 1 km
PINK (ODD YEAR)	
PINK (EVEN YEAR)	to 3.5 km
STEELHEAD	

POTENTIAL OF INACCESSIBLE PORTION OF STREAM _____

GENERAL REMARKS _____

The first 1 km is estuary.

1953. During high water this year, coho were observed clearing the falls.

1958. Salmon net fishery off the mouth was very light.(about 1000 chum taken)

1972. Upper reaches have been logged. 500 chum were taken during the food fishery.

1973. 500 chum were taken during the food fishery.

1975. This watershed is now being logged above areas where salmon spawn.

1978. Road construction is underway in the upper part of the watershed.

References: _____

Sprout, P., 1977. A preliminary report on the salmon resource and potential enhancement opportunities of the northern west coast of Vancouver Island.

(Areas 26 and 27) Manuscript in preparation.

ESCAPEMENT RECORD FOR CLANNINICK CREEK

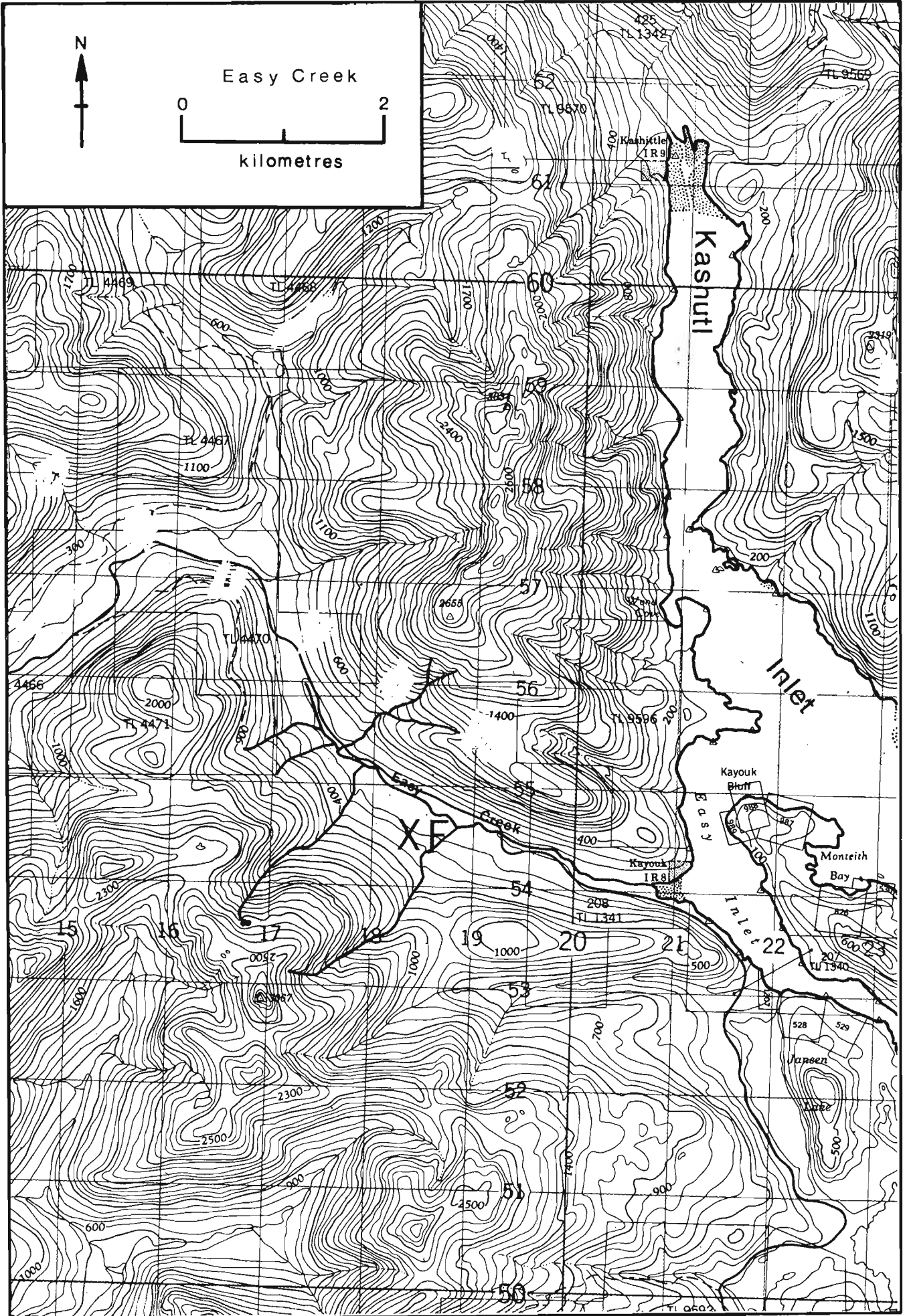
YEAR	SOCKEYE	CHINOOK	COHO	CHUM	PINK	STEELHEAD
1947			400	3500	200	
48			750	3500	200	
49			400	15000	75	
50			400	15000	200	
51			200	3500	25	
52			400	3500	750	
53			400	3500		
54			400	7500	1500	
55			750	750		200
56		5	750	1500	750	750
57		25	400	7500		400
58		N/O	200	15000	1500	
59			400	3500		
60			75	15000	1500	
61		25	400	1500		
62			200	1500	750	
63		N/O	400	750		
64		N/O	200	1500	25	
65		N/O	400	3500		
66			400	35000	750	
67		N/O	N/O	3500		
68			200	3500	750	
69		25	25	1500	25	
70		25	400	7500	1500	
71			200	3500		
72			25	7500	3500	
73		25	400	7500	75	
74			750	7500	75	
75			25	3500		
76				25	25	
77				1500		
78	30	30	100	9500	1500	
79	1	25	100	510		
80						
81						
82						
83						
84						
85						

TIMING

ARRIVE			AUG	M. SEPT	M. SEPT	
START			E. OCT	E. OCT	E. OCT	
PEAK		M. OCT	L. OCT	L. OCT	M. OCT	
END			L. NOV	NOV	NOV	

REMARKS

1963. Steelhead Jan/Feb winter run and summer run in August.



NAME OF STREAM _____ (Easy Creek, Kiouk Creek)
 CONSERVATION DISTRICT _____ 4 _____ STATISTICAL AREA _____ 26 _____
 LOCATION OF MOUTH _____ Flows E. into Easy Inlet, W. side of Kashutl Inlet, Kyuquot Sd.,
 Rupert Dist. _____ POSITION _____ 50 127 SE _____
 LENGTH _____ 7 _____ km WIDTH _____ 15 _____ m DRAINAGE _____ 11.9 _____ km²
 COMPOSITION: BEDROCK _____ 5% _____ BOULDER _____ 50% _____ COARSE _____ 25% _____ FINE _____ 20% _____
 SILT & SAND _____ UNCLASSIFIED _____

PERCENT GRADIENT

0.00 - 0.25	
0.25 - 0.50	
0.50 - 0.75	
0.75 - 1.00	
> 1.00	

WETTED AREA _____ 105000 _____ m² SPAWNING AREA _____ 47250 _____ m²

DISCHARGE (m³/s) _____

TEMPERATURE (°C) _____ 6°C(51/11/13), 6.5°C(52/5/3), 8°C(51/10/28), 12°C(51/8/5, 51/6/20)

BARRIERS OR POINTS OF DIFFICULT ASCENT _____

Impassable logging debris in headwaters at 7 km.

Passable log jams and windfalls throughout.

SPAWNING DISTRIBUTION

SPECIES	SECTION OF STREAM USED
SOCKEYE	
CHINOOK	
COHO	to 7 km
CHUM	concentrated in lower 3 km
PINK (ODD YEAR)	
PINK (EVEN YEAR)	
STEELHEAD	

POTENTIAL OF INACCESSIBLE PORTION OF STREAM _____

GENERAL REMARKS

1951. This is an excellent chum stream with a low gradient and ideal gravel beds.

1973. Heavy siltation occurred this year due to road construction.

1975. This area is now being logged.

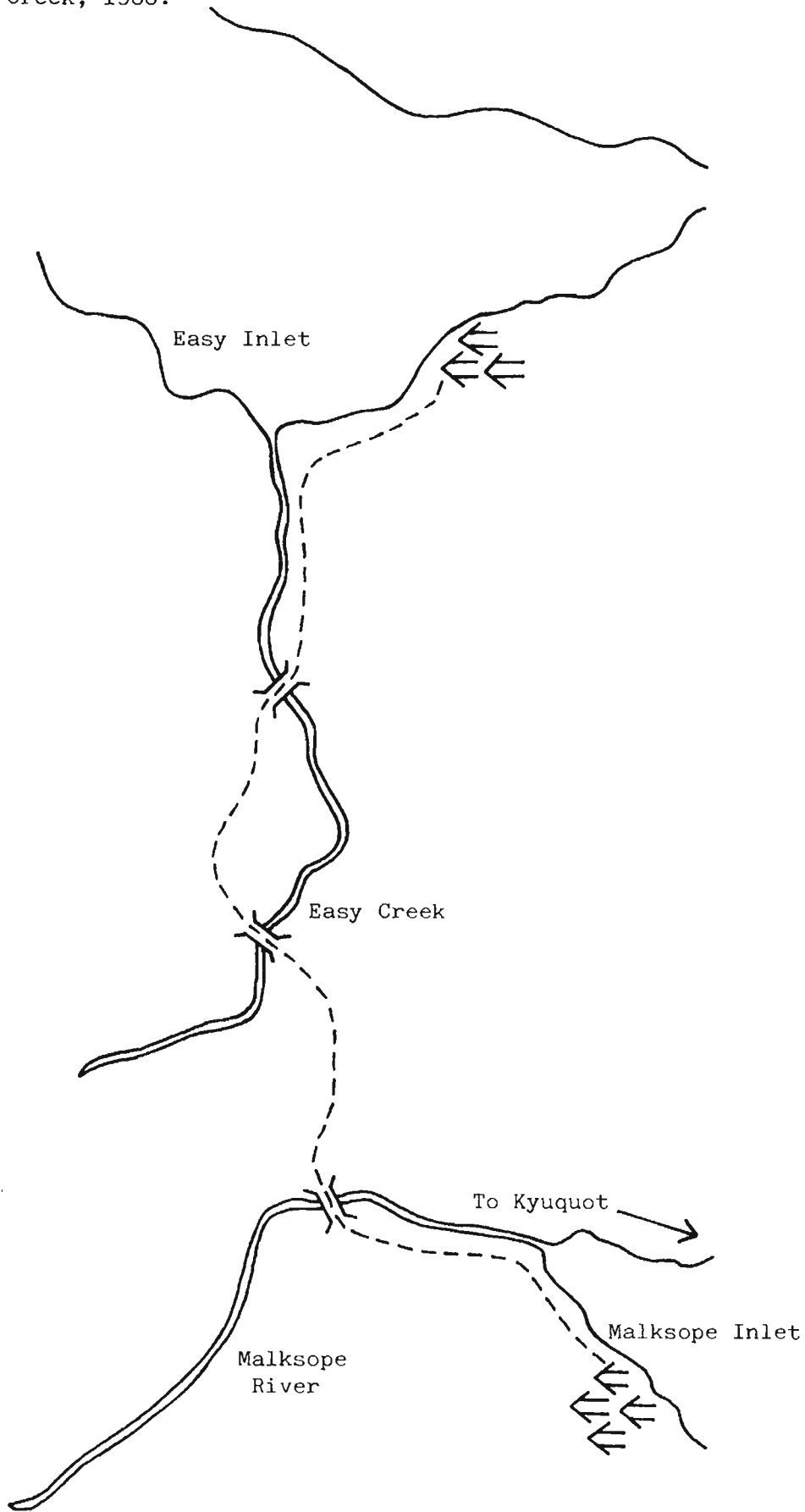
References:

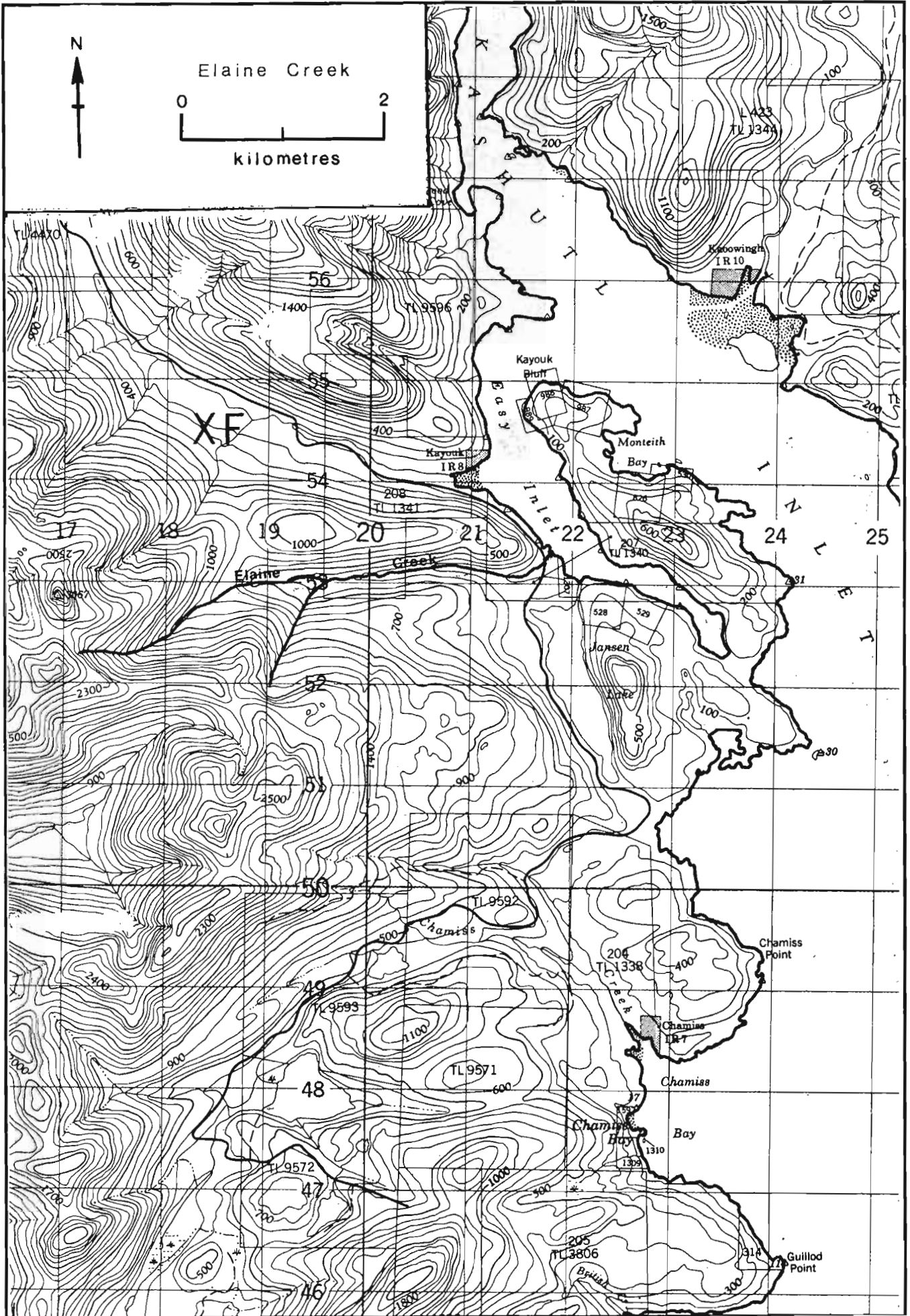
Envirocon Ltd., 1977. Kyuquot Sound salmonid enhancement study.

Reconnaissance and general feasibility study. Prepared for: Canada,

Dept. of Fisheries and the Environment: 85 pp.

Sketch of Easy Creek, 1966.





NAME OF STREAM _____ (Elaine Creek)
 CONSERVATION DISTRICT _____ 4 _____ STATISTICAL AREA _____ 26 _____
 LOCATION OF MOUTH Flows E. into Easy Inlet, W. side of Kashutl Inlet, Kyuquot
Sd., Rupert Dist. POSITION 50 127 SE
 LENGTH 0.4 km WIDTH _____ m DRAINAGE 6.2 km²
 COMPOSITION: BEDROCK _____ BOULDER _____ COARSE _____ FINE _____
 SILT & SAND _____ UNCLASSIFIED _____

PERCENT GRADIENT

0.00 - 0.25	
0.25 - 0.50	
0.50 - 0.75	
0.75 - 1.00	
>1.00	throughout

WETTED AREA _____ m² SPAWNING AREA _____ m²

DISCHARGE (m³/s) _____

TEMPERATURE (°C) _____

BARRIERS OR POINTS OF DIFFICULT ASCENT _____
Impassable log jam in canyon at 0.4 km.

SPAWNING DISTRIBUTION

SPECIES	SECTION OF STREAM USED
SOCKEYE	
CHINOOK	
COHO	to 0.4 km
CHUM	to 0.4 km
PINK (ODD YEAR)	
PINK (EVEN YEAR)	
STEELHEAD	

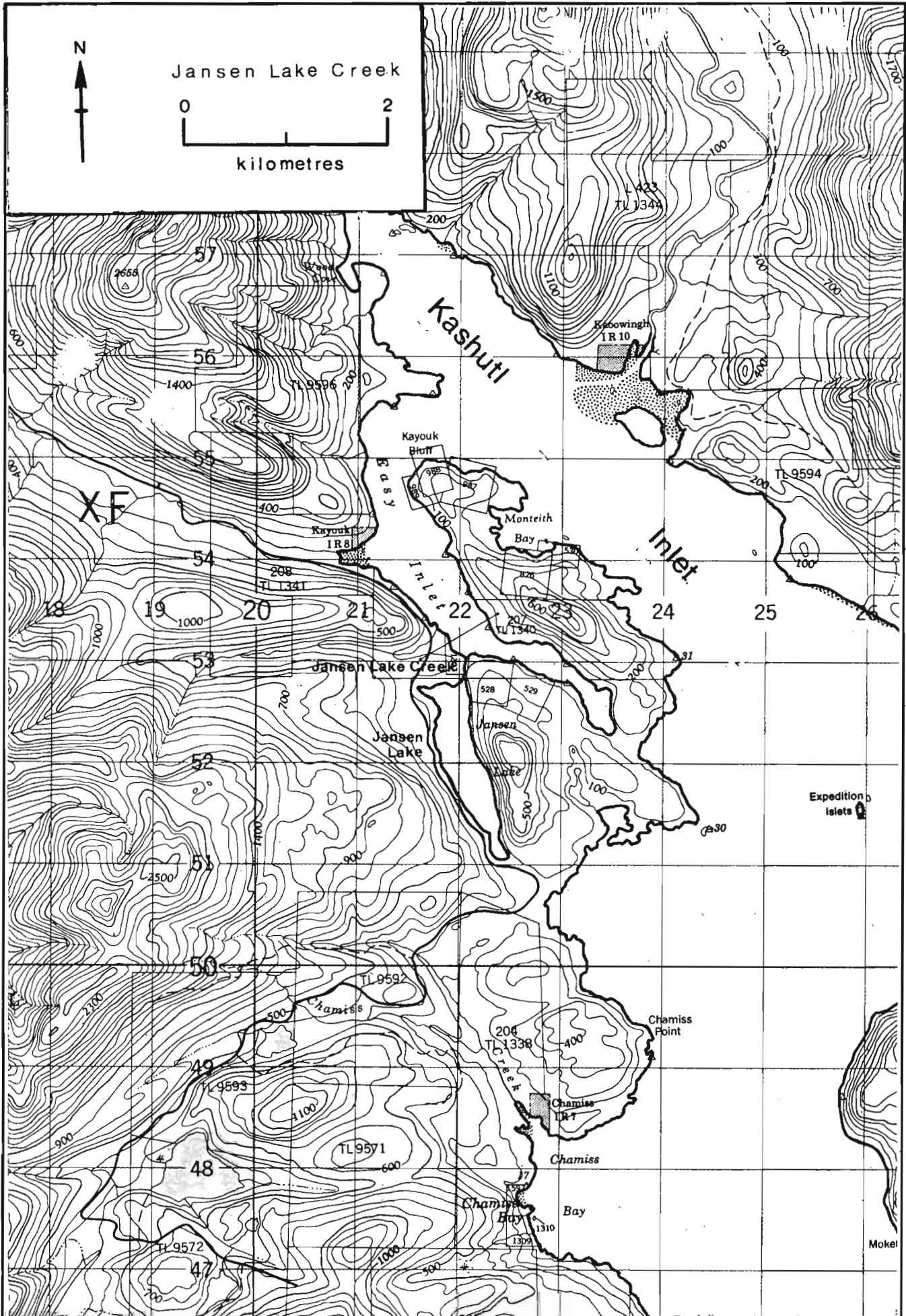
POTENTIAL OF INACCESSIBLE PORTION OF STREAM _____
1969. There is about 2.4 km of good coho spawning ground above the canyon.

GENERAL REMARKS

1972. The jam was removed in summer but another formed during the rains in August. A very small stream but a good producer. (Several attempts have been made to remove the jam from the canyon but it reforms quickly due to high water conditions.)
1973. This stream supports a good number of chum though it only has approximately 90 m of gravel.

References:

Envirocon Ltd., 1977. Kyuquot Sound salmonid enhancement study. Reconnaissance and general feasibility study. Prepared for: Canada, Dept. of Fisheries and Environment: 85 pp.



NAME OF STREAM _____ (Jansen Lake Creek)
 CONSERVATION DISTRICT 4 STATISTICAL AREA 26
 LOCATION OF MOUTH Flows N. into Easy Inlet, W. side of Kashutl Inlet, Kyuquot
Sd., Rupert Dist. POSITION _____
 LENGTH 2 km WIDTH _____ m DRAINAGE 3.6 km²
 COMPOSITION: BEDROCK _____ BOULDER _____ COARSE _____ FINE _____
 SILT & SAND _____ UNCLASSIFIED _____

PERCENT GRADIENT

0.00 - 0.25	
0.25 - 0.50	
0.50 - 0.75	
0.75 - 1.00	
> 1.00	from mouth to Jansen Lake

WETTED AREA _____ m² SPAWNING AREA _____ m²

DISCHARGE (m³/s) _____

TEMPERATURE (°C) _____

BARRIERS OR POINTS OF DIFFICULT ASCENT _____

Passable log jam at the outlet of the lake at 0.4 km. (Passable only at high water levels.)

Two passable falls between lake outlet and mouth.

SPAWNING DISTRIBUTION

SPECIES	SECTION OF STREAM USED
SOCKEYE	some in creek; most in lake
CHINOOK	some in creek; most in lake
COHO	some in creek; most in lake
CHUM	at the mouth
PINK (ODD YEAR)	
PINK (EVEN YEAR)	
STEELHEAD	

POTENTIAL OF INACCESSIBLE PORTION OF STREAM _____

GENERAL REMARKS

1953. Logging began in the Jansen Lake watershed this year.

1955. This stream was used as a skidway for moving logs from the lake to the mouth of the creek. The logging operation was finished this year.

1965. Low water levels delayed spawning until late October this year.

There is a large log jam at the outlet of Jansen Lake which impedes the migration of fish into Jansen Lake, particularly during low water. When the water levels are low, the fish school in Easy Inlet.

The smaller jams in the creek need to be continually cleared because they are constantly being refurbished by more logs and debris from the large jam at the outlet of the lake.

GENERAL REMARKS:(con't)

In 1963 it was suggested that the debris in and along the creek be burnt, the outlet of the lake be cleared and that boom logs be placed at the outlet to retain debris that has moved down the lake and prevent it from moving into the creek.

Another problem with the Jansen Lake system is that the tributaries entering Jansen Lake have apparently deteriorated due to logging road construction around the lake.

References:

Envirocon Ltd., 1977. Kyuquot Sound salmonid enhancement study. Reconnaissance and general feasibility study. Prepared for: Canada, Dept. of Fisheries and the Environment: 85 pp.

NAME OF STREAM KAOUK RIVER (Fair Harbour River)
 CONSERVATION DISTRICT 4 STATISTICAL AREA 26
 LOCATION OF MOUTH Flows W. into head of Fair Hr., Rupert Dist.
 POSITION 50 127 SE
 LENGTH 17 km WIDTH 23 m DRAINAGE 102.3 km²
 COMPOSITION: BEDROCK _____ BOULDER 10% COARSE 40% FINE 40%
 SILT & SAND 5% UNCLASSIFIED pools - 5%

PERCENT GRADIENT

0.00 - 0.25	
0.25 - 0.50	
0.50 - 0.75	to 8 km
0.75 - 1.00	above 8 km
>1.00	

WETTED AREA 391000 m² SPAWNING AREA 312800 m²

DISCHARGE (m³/s) 4 m³/sec 77/10/8

TEMPERATURE (°C) _____

BARRIERS OR POINTS OF DIFFICULT ASCENT _____
Impassable falls at 17 km.

SPAWNING DISTRIBUTION

SPECIES	SECTION OF STREAM USED
SOCKEYE	
CHINOOK	throughout the system but concentrated in the lower 5 km
COHO	throughout with small numbers in Rowland Creek
CHUM	mainly in the lower 5 km
PINK (ODD YEAR)	
PINK (EVEN YEAR)	beyond Rowland Creek(13 km)
STEELHEAD	

POTENTIAL OF INACCESSIBLE PORTION OF STREAM _____

GENERAL REMARKS

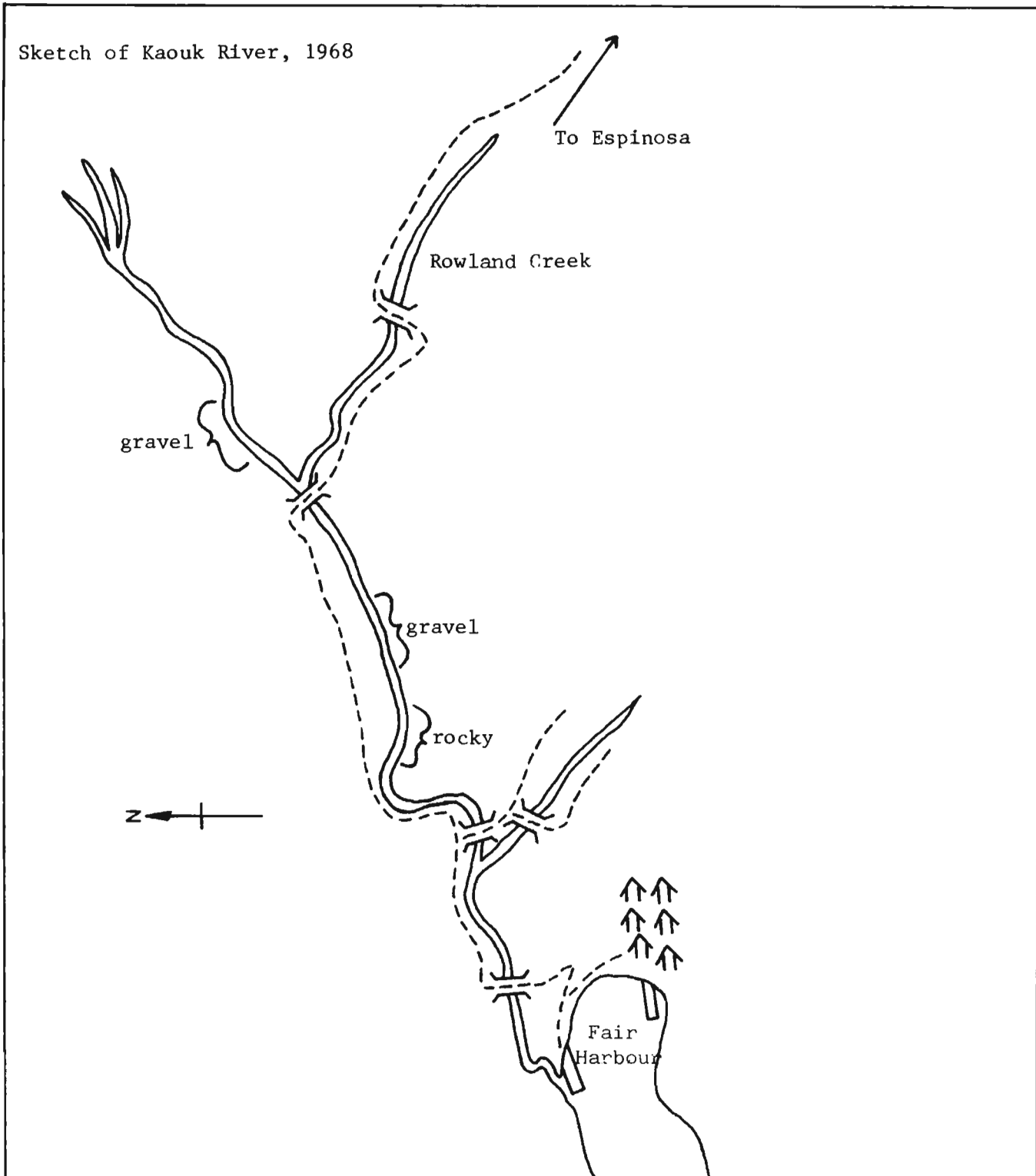
1951. This is considered a fairly steady producer of chinook and coho. The chum escapements are low compared to other rivers in the area.
 1956. This is a large and fairly slow moving river. As a result the run-off does little damage to spawning beds, particularly in the lower reaches.
 1960. Logging operations began on this river this year.
 1969. This river remains high and muddy long after other rivers have cleared.
 1971. Light silting occurred due to logging.
 1975. Due to accessibility, this river is sport fished more than any other river in the area.
 1978. Logging and road construction is taking place on Rowland Creek.

GENERAL REMARKS(con't)

References:

Envirocon Ltd., 1977. Kyuquot Sound salmonid enhancement study. Reconnaissance and general feasibility study. Prepared for: Canada, Dept. of Fisheries and the Environment: 85 pp.

Sprout, P., 1977. A preliminary report on the salmon resource and potential enhancement opportunities of the northern west coast of Vancouver Island.(Areas 26 and 27) Manuscript in preparation.



ESCAPEMENT RECORD FOR KAOUK RIVER (Fair Harbour River)

YEAR	SOCKEYE	CHINOOK	COHO	CHUM	PINK	STEELHEAD
1947			400	750		
48		1500	1500	3500	200	
49		1500	750	750	750	
50		750	750	1500	200	
51		750	750	750	25	25
52		1500	750	3500	400	25
53		750	400	3500		
54	9	750	1500	3500	800	
55		750	3500	750		3500
56		400	3500	3500	1500	1500
57		750	1500	3500		750
58		200	3500	3500	3500	
59		75	400	750		
60		75	750	1500	1500	
61		200	400	750		
62		400	400	750	400	
63		400	750	750		
64		1500	750	75	400	
65		400	400	750	200	
66		3500	200	750	7500	
67		400	25	750	25	
68		750	N/O	750	7500	
69		750	200	750		
70		750	1500	3500	15000	
71		750	400	7500	25	
72		300	1500	11000	75000	
73		1500	1500	15000		
74		200	1500	3500	15000	
75		75	200	7500		25
76	25	25	75	3500	35000	
77		75	200	1000		
78		50	50	6500	10000	
79		60	200	1300		20
80						
81						
82						
83						
84						
85						

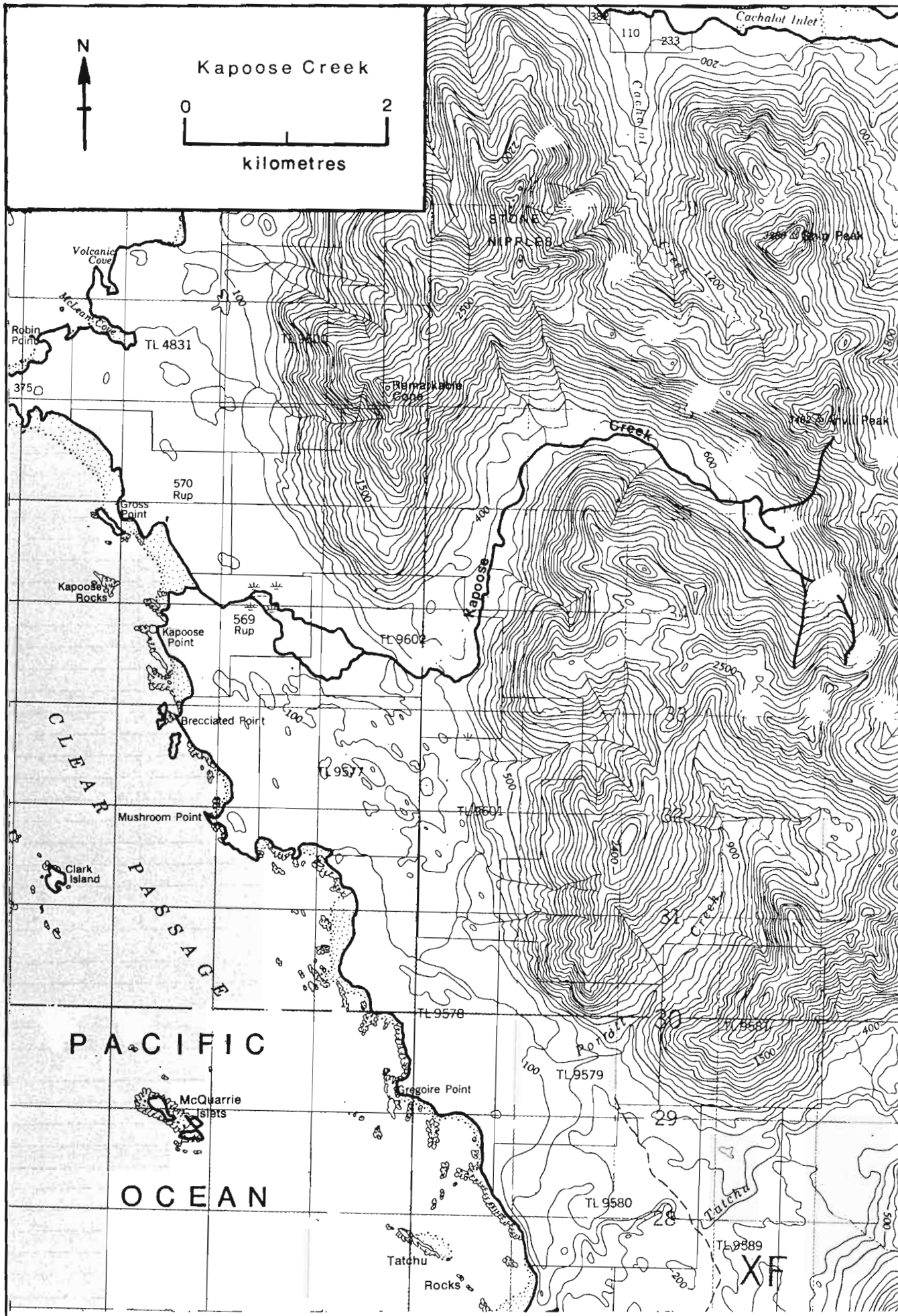
TIMING

ARRIVE					M. AUG	
START		L. SEPT	SEPT	E. OCT	L. AUG	
PEAK		L. SEPT	L. SEPT	M. OCT	L. SEPT	
END		M. OCT	M. NOV	M. NOV	M. OCT	

REMARKS

1976. This river was inspected by Envirocon.

There are summer and winter runs of steelhead present in this river.



NAME OF STREAM KAPOOSE CREEK
 CONSERVATION DISTRICT 4 STATISTICAL AREA 26
 LOCATION OF MOUTH Flows SW. and NW. into the Pacific Ocean, SE. of Rugged Pt.,
Nootka Dist. POSITION 49 127 NE
 LENGTH 3 km WIDTH _____ m DRAINAGE 18 km²
 COMPOSITION: BEDROCK _____ BOULDER _____ COARSE _____ FINE _____
 SILT & SAND _____ UNCLASSIFIED _____

PERCENT GRADIENT

0.00 - 0.25	
0.25 - 0.50	
0.50 - 0.75	
0.75 - 1.00	
> 1.00	

WETTED AREA _____ m² SPAWNING AREA _____ m²

DISCHARGE (m³/s) _____

TEMPERATURE (°C) _____

BARRIERS OR POINTS OF DIFFICULT ASCENT _____
 Impassable falls at 3 km.

SPAWNING DISTRIBUTION

SPECIES	SECTION OF STREAM USED
SOCKEYE	
CHINOOK	
COHO	to 3 km and in the numerous side channels
CHUM	in the lower reaches
PINK (ODD YEAR)	
PINK (EVEN YEAR)	
STEELHEAD	

POTENTIAL OF INACCESSIBLE PORTION OF STREAM _____

GENERAL REMARKS _____
 1977. This stream has no clearly defined channel in the flood plain. It is made up of numerous channels in a marsh like area. These channels were full of coho in June.

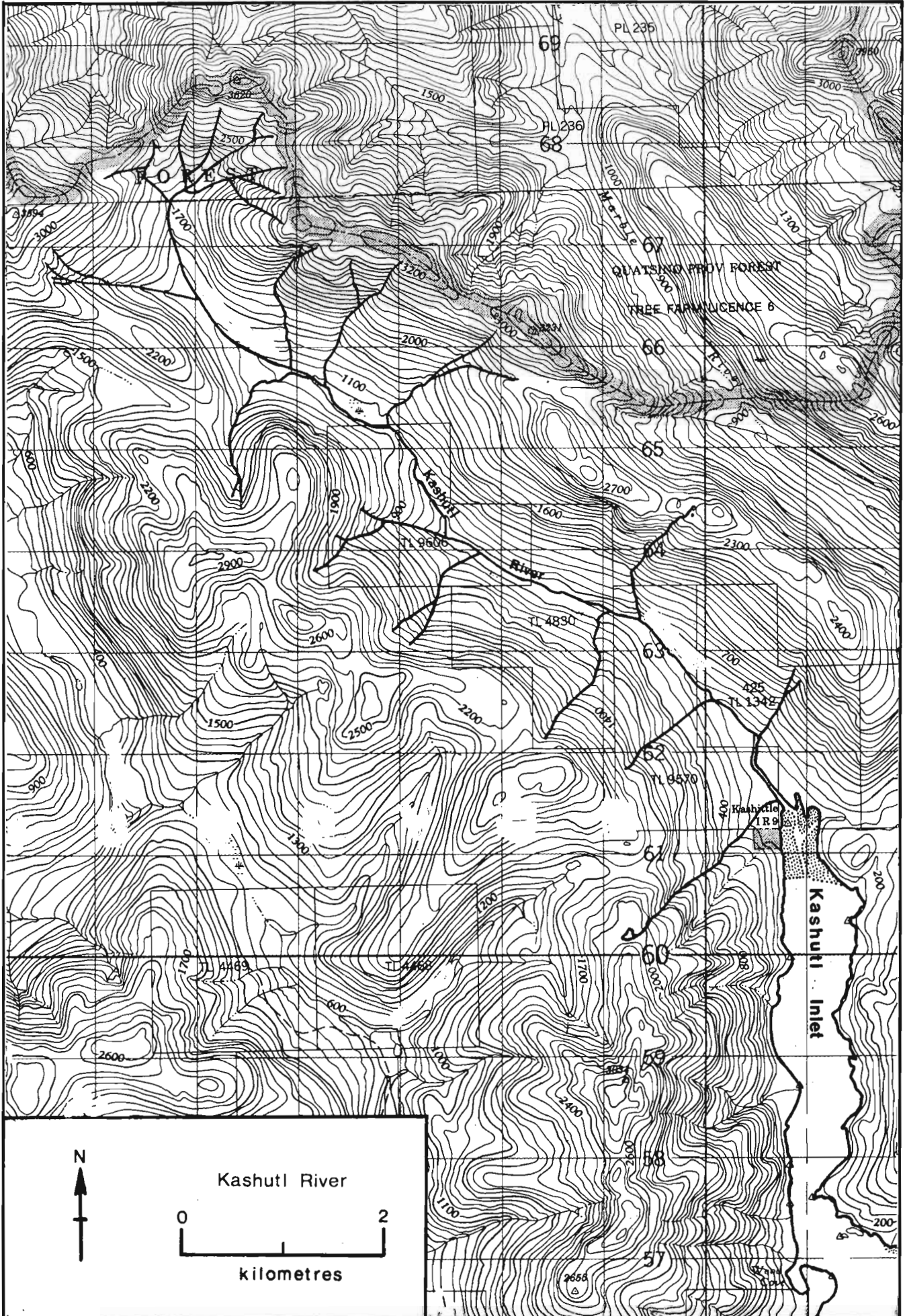
ESCAPEMENT RECORD FOR KAPOOSE CREEK

YEAR	SOCKEYE	CHINOOK	COHO	CHUM	PINK	STEELHEAD
1947						
48						
49						
50						
51						
52						
53						
54						
55						
56						
57						
58						
59						
60						
61						
62			N/O	N/O		
63			NO RECORDS	FROM 1963	TO 1976	
64						
65						
66						
67						
68						
69						
70						
71						
72						
73						
74						
75						
76						
77			20	50		
78						
79						
80						
81						
82						
83						
84						
85						

TIMING

ARRIVE						
START						
PEAK						
END						

REMARKS



NAME OF STREAM KASHUTL RIVER (Cockshuttle River)
 CONSERVATION DISTRICT 4 STATISTICAL AREA 26
 LOCATION OF MOUTH Flows SE. into head of Kashutl Inlet, Rupert Dist.
 POSITION 50 127 SE.
 LENGTH 3 km WIDTH _____ m DRAINAGE 25.4 km²
 COMPOSITION: BEDROCK _____ BOULDER _____ COARSE _____ FINE _____
 SILT & SAND _____ UNCLASSIFIED _____

PERCENT GRADIENT

0.00 - 0.25	
0.25 - 0.50	
0.50 - 0.75	
0.75 - 1.00	0 - 1.5 km
> 1.00	above 1.5 km

WETTED AREA _____ m² SPAWNING AREA _____ m²

DISCHARGE (m³/s) 1 m³/sec (77/8/12)

TEMPERATURE (°C) _____

BARRIERS OR POINTS OF DIFFICULT ASCENT _____
Two impassable falls at 3 km. (lower falls-4 m high; upper falls-2.5 m high)
Passable log jams at 0.4 km and 0.8 km.

SPAWNING DISTRIBUTION

SPECIES	SECTION OF STREAM USED
SOCKEYE	
CHINOOK	lower reaches
COHO	scattered to 3 km
CHUM	to 1.6 km
PINK (ODD YEAR)	
PINK (EVEN YEAR)	to 2.5 km
STEELHEAD	

POTENTIAL OF INACCESSIBLE PORTION OF STREAM _____

GENERAL REMARKS

1956. This stream is subject to extreme fluctuation in water levels. Fortunately the streambed is virtually unaffected except for some movement of gravel bars.

1975. Road construction started this year. A bridge is to be built 0.8 km from the mouth.

1976. A log dump was built on the east side of the estuary.

1977. Logging is now taking place in this area. The road runs along the river which causes a certain amount of siltation during wet periods.

1978. Logging slash is building up at the log jam and should be removed before it becomes impassable to fish or scours the streambed.

GENERAL REMARKS(con't)

References:

Envirocon Ltd., 1977. Kyuquot Sound salmonid enhancement study. Reconnaissance and general feasibility study. Prepared for: Canada, Dept. of Fisheries and the Environment: 85 pp.

Sprout, P., 1977. A preliminary report on the salmon resource and potential enhancement opportunities of the northern west coast of Vancouver Island.(Areas 26 and 27) Manuscript in preparation.

ESCAPEMENT RECORD FOR KASHUTL RIVER (Cockshuttle River)

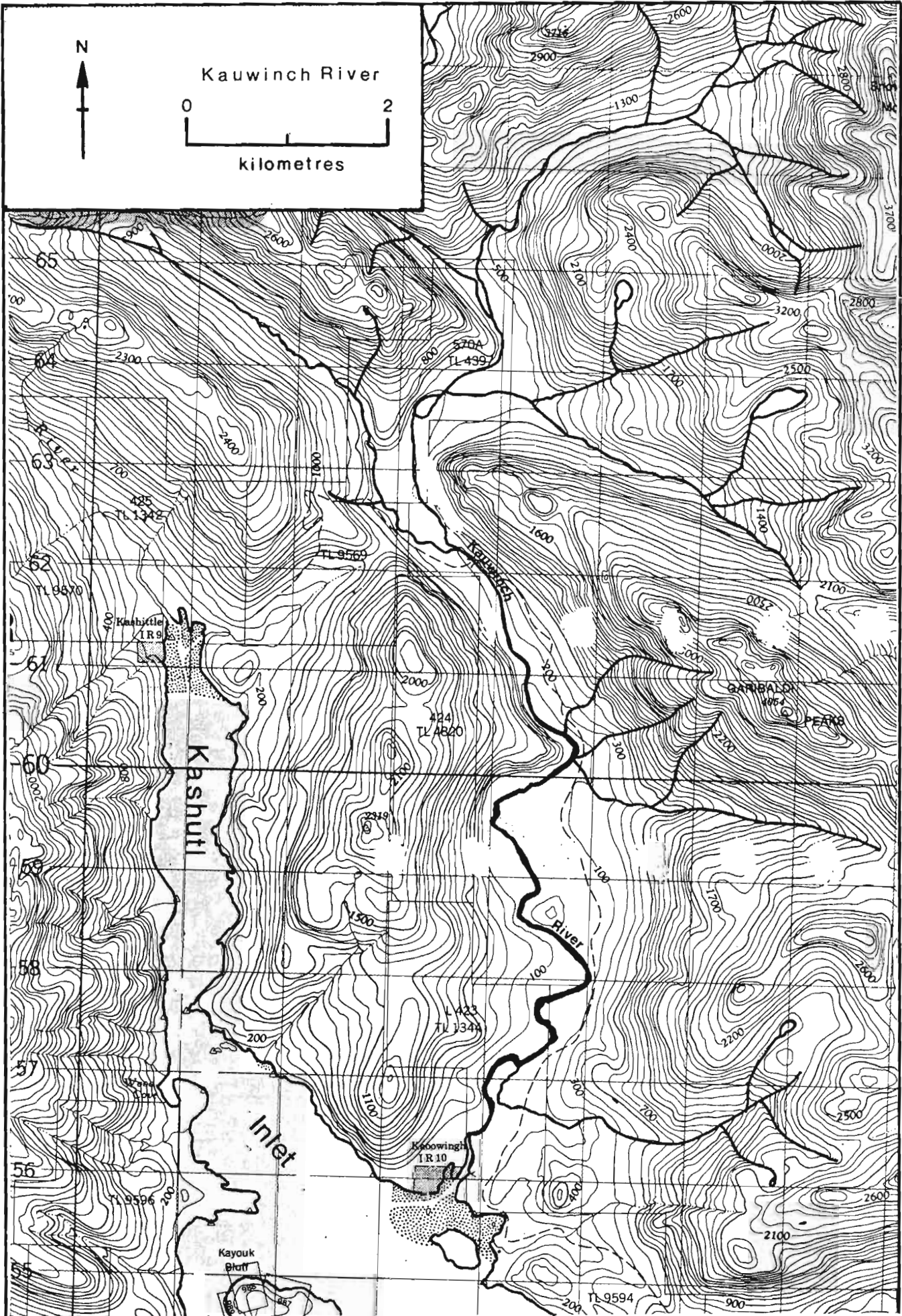
YEAR	SOCKEYE	CHINOOK	COHO	CHUM	PINK	STEELHEAD
1947			200	3500		
48		75	75	3500	75	
49			75	7500		
50			200	7500		
51			200	3500		
52		200	1500	7500	750	
53		75	400	3500		
54			750	3500	200	
55		25	1500	400		
56		25	1500	1500	400	
57		25	750	3500		
58			750	7500	400	
59		N/0	200	3500		
60		25	25	3500	400	
61		25	75	1500		
62		N/0	200	1500	75	
63		N/0	200	750		
64		N/0	25	3500	75	
65		N/0	25	1500		
66		25	200	7500	75	
67			25	3500		
68		25	25	3500	75	
69		25	25	3500	25	
70			25	7500	400	
71			200	3500		
72			25	750	400	
73			200	3500		
74		25	25	7500	75	
75		25		400		
76			25	400	25	
77			200	1500		
78	150		50	4500	200	
79	2	12	200	350		
80						
81						
82						
83						
84						
85						

TIMING

ARRIVE						
START			OCT	E. OCT	SEPT	
PEAK			M. OCT	E. NOV	L. SEPT	
END			E. NOV	M. NOV		

REMARKS

There are summer and winter runs of steelhead present in this river.



NAME OF STREAM KAUWINCH RIVER
 CONSERVATION DISTRICT 4 STATISTICAL AREA 26
 LOCATION OF MOUTH Flows S. into E. side of Kashutl Inlet, Rupert Dist.
 POSITION 50 127 SE
 LENGTH 17.5 km WIDTH 21 m DRAINAGE 73.8 km²
 COMPOSITION: BEDROCK 10% BOULDER 20% COARSE 25% FINE 30%
 SILT & SAND _____ UNCLASSIFIED pools - 15%

PERCENT GRADIENT

0.00 - 0.25	
0.25 - 0.50	
0.50 - 0.75	
0.75 - 1.00	0 - 8 km
> 1.00	above 8 km

WETTED AREA 367500 m² SPAWNING AREA 202125 m²

DISCHARGE (m³/s) 3 m³/sec (77/8/11)

TEMPERATURE (°C) _____

BARRIERS OR POINTS OF DIFFICULT ASCENT _____
Passable canyon at 8 km.(acts as a velocity barrier to pinks during high water)

SPAWNING DISTRIBUTION

SPECIES	SECTION OF STREAM USED
SOCKEYE	
CHINOOK	throughout; mainly in upper reaches
COHO	throughout; mainly in upper reaches
CHUM	mainly in lower 3 km
PINK (ODD YEAR)	
PINK (EVEN YEAR)	mainly in lower 3 km but when escapements are high the upper reaches are used

POTENTIAL OF INACCESSIBLE PORTION OF STREAM _____

GENERAL REMARKS

1948. Freezing temperatures and low water during February this year may have caused some damage to spawning beds.
 1954. This stream appears to be capable of handling runs up to triple the present number.
 1955. This stream is subject to sustained high water during wet months.
 1975. 80% of this watershed has been logged. Danger of log jam formation is great.
 1977. This watershed hasn't recovered from the adverse effects of logging yet. Water levels were very low this year.
 1979. Due to past logging this stream is now subject to rapid changes in water levels.

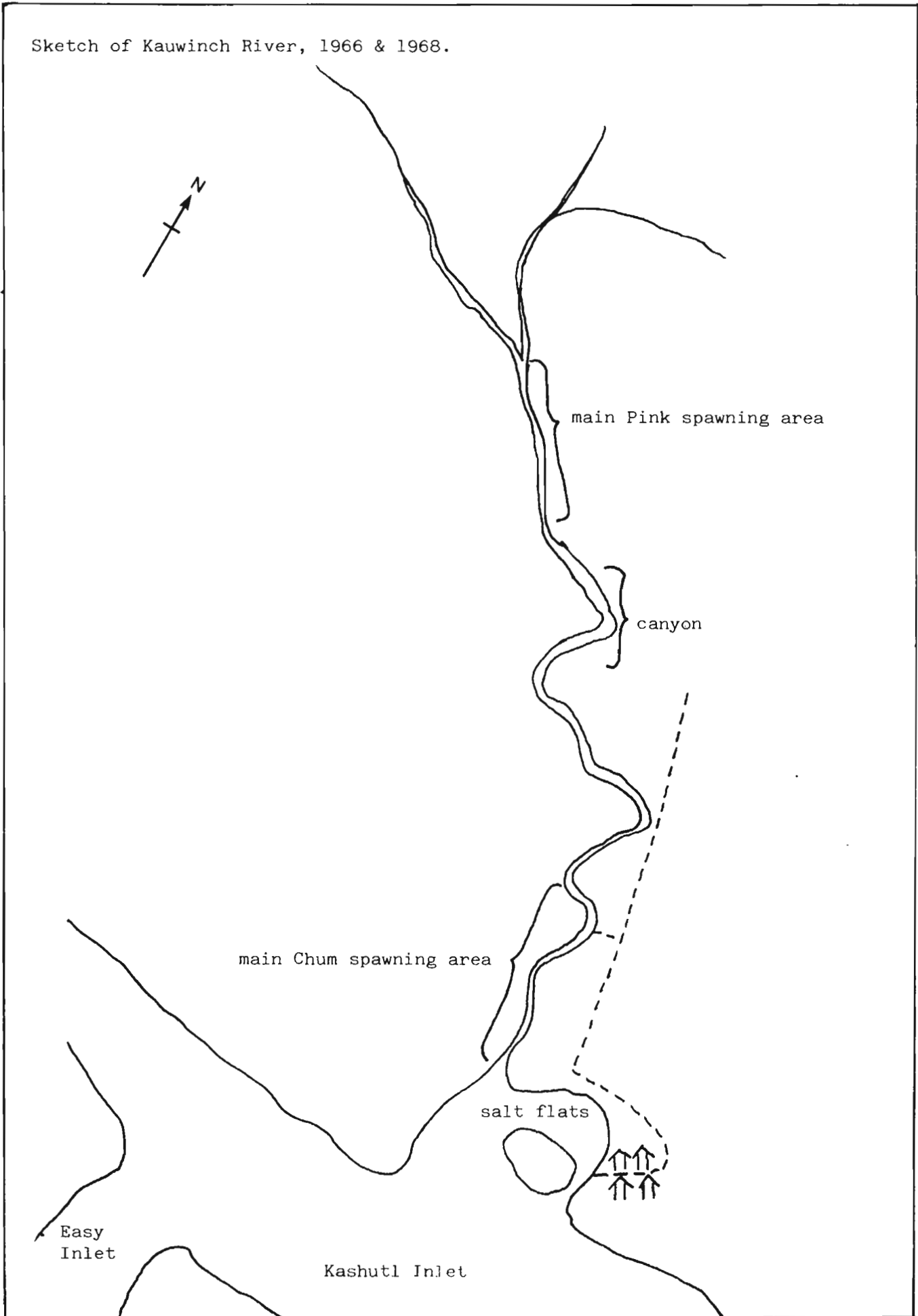
GENERAL REMARKS(con't)

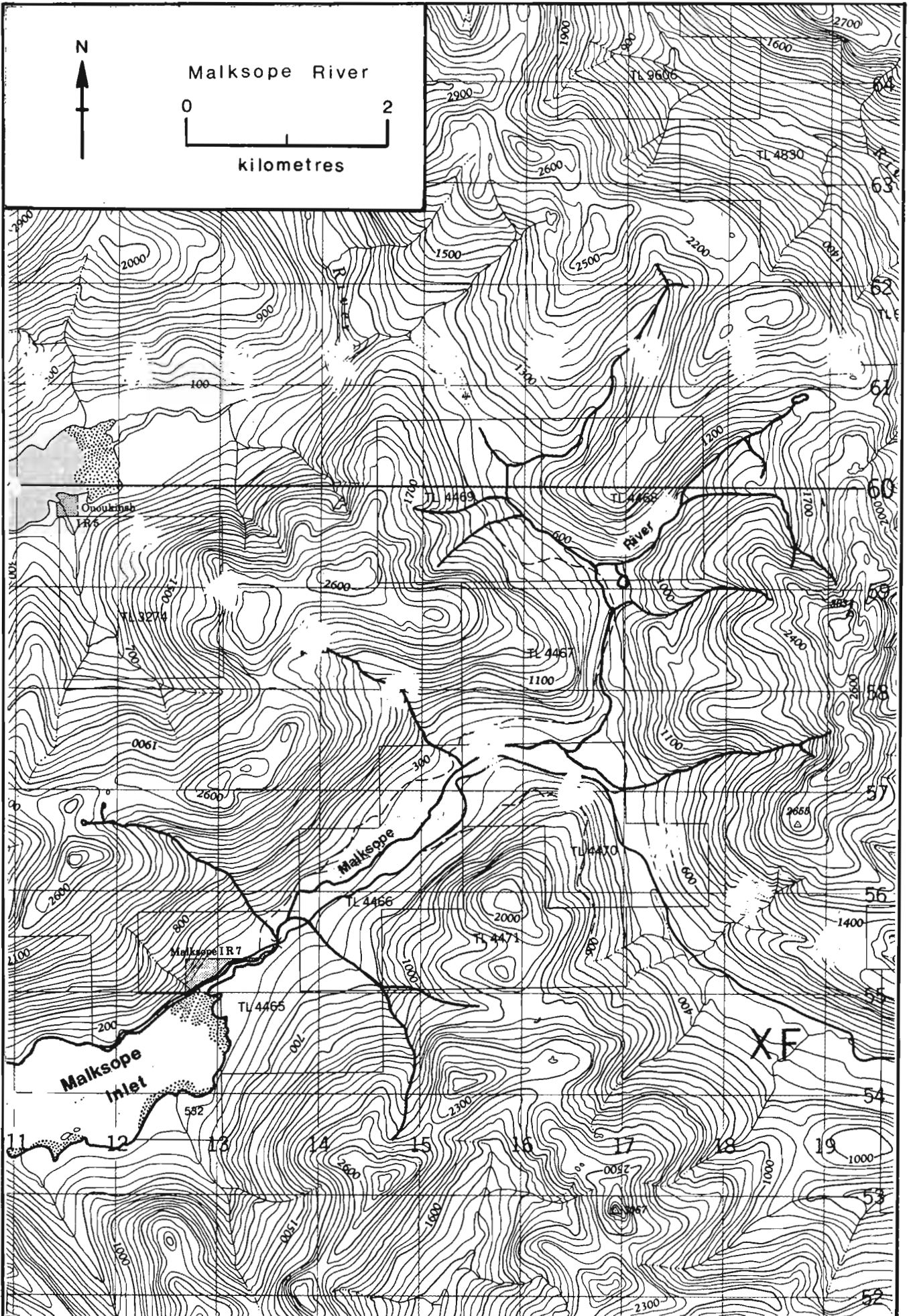
References:

Envirocon Ltd., 1977. Kyuquot Sound salmonid enhancement study. Reconnaissance and general feasibility study. Prepared for: Canada, Dept. of Fisheries and the Environment: 85 pp.

Sprout, P., 1977. A preliminary report on the salmon resource and potential enhancement opportunities of the northern west coast of Vancouver Island.(Areas 26 and 27) Manuscript in preparation.

Sketch of Kauwinch River, 1966 & 1968.





NAME OF STREAM MALKSOPE RIVER
 CONSERVATION DISTRICT 4 STATISTICAL AREA 26
 LOCATION OF MOUTH Flows SW. into head of Malksope Inlet, Rupert Dist.
 POSITION 50 127 SE
 LENGTH 7.2 km WIDTH 15 m DRAINAGE 36 km²
 COMPOSITION: BEDROCK 10% BOULDER 35% COARSE 40% FINE 15%
 SILT & SAND _____ UNCLASSIFIED _____

PERCENT GRADIENT

0.00 - 0.25	
0.25 - 0.50	
0.50 - 0.75	
0.75 - 1.00	
> 1.00	

WETTED AREA 108000 m² SPAWNING AREA 59400 m²

DISCHARGE (m³/s) 0.6 m³/sec (77/8/16)

TEMPERATURE (°C) _____

BARRIERS OR POINTS OF DIFFICULT ASCENT _____

Passable log jams at 5 km.

Passable canyon at 4 km.

SPAWNING DISTRIBUTION

SPECIES	SECTION OF STREAM USED
SOCKEYE	
CHINOOK	throughout
COHO	throughout
CHUM	in lower 3 km
PINK (ODD YEAR)	
PINK (EVEN YEAR)	in lower 3 km
STEELHEAD	

POTENTIAL OF INACCESSIBLE PORTION OF STREAM _____

GENERAL REMARKS

1949. Freezing temperatures through February during low water levels may have damaged spawning beds.

1951. One of the best chum producers in Kyuquot Area. It has excellent gravel interspersed with pools. There is very little scouring evident in the spawning area.

1959. About 12000 chum were taken in the inlet by drum seines.(in 8 days)

1963. Boundary moved one nautical mile seaward from a point near Hollywood Pass to opposite shore.

1968. Logging started this year.

1971. Some siltation and debris in the river due to logging operations.

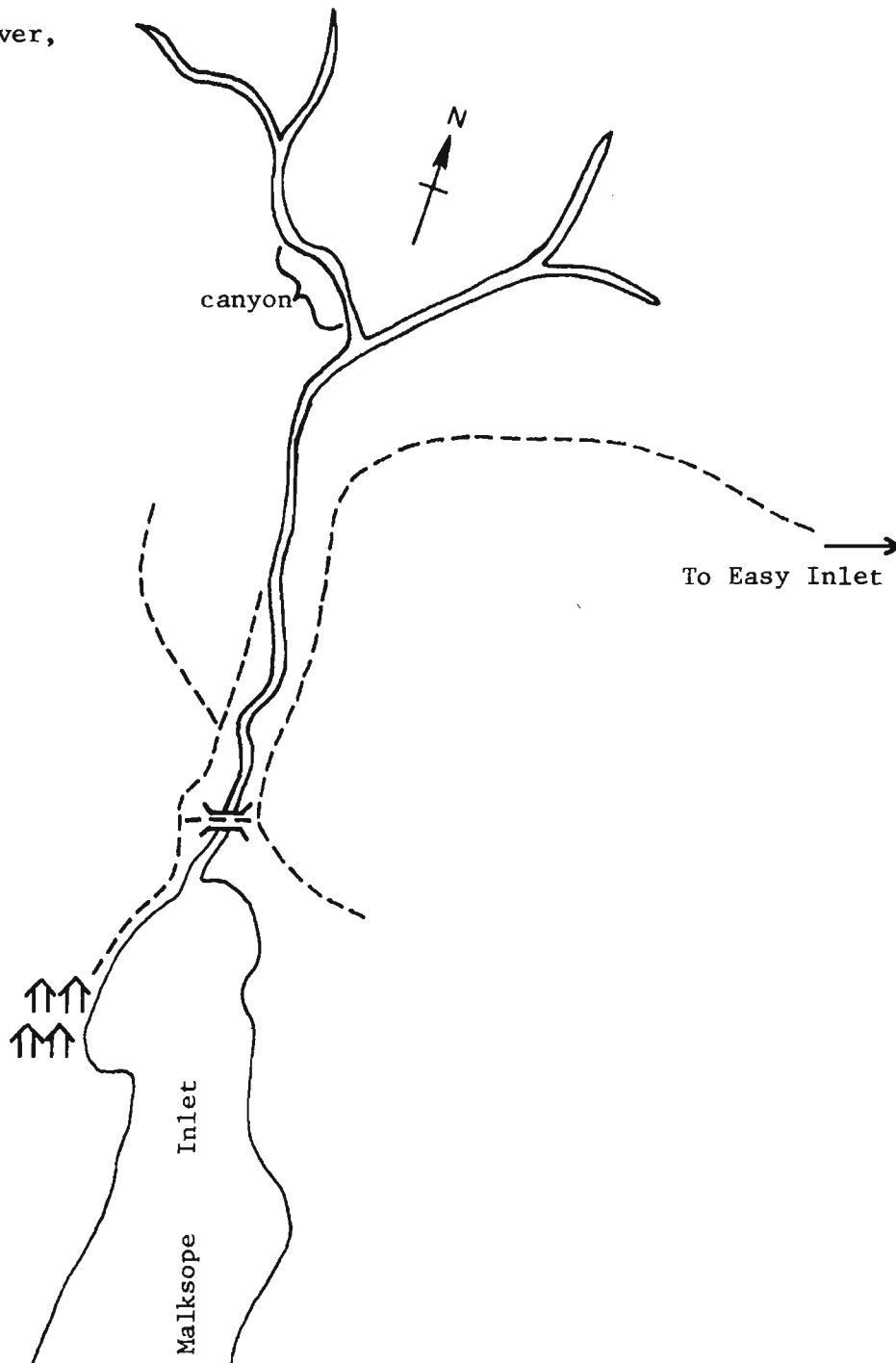
GENERAL REMARKS(con't)

1977. Due to extensive logging this system is subject to fluctuations in water level. Juvenile rearing potential is not considered high due to the absence of streamside cover and the apparent unstable flows as indicated by the extreme difference in wetted and streambed widths.

References:

Sprout, P., 1977. A preliminary report on the salmon resource and potential enhancement opportunities of the northern west coast of Vancouver Island.(Areas 26 and 27) Manuscript in preparation.

Sketch of Malksope River,
1968



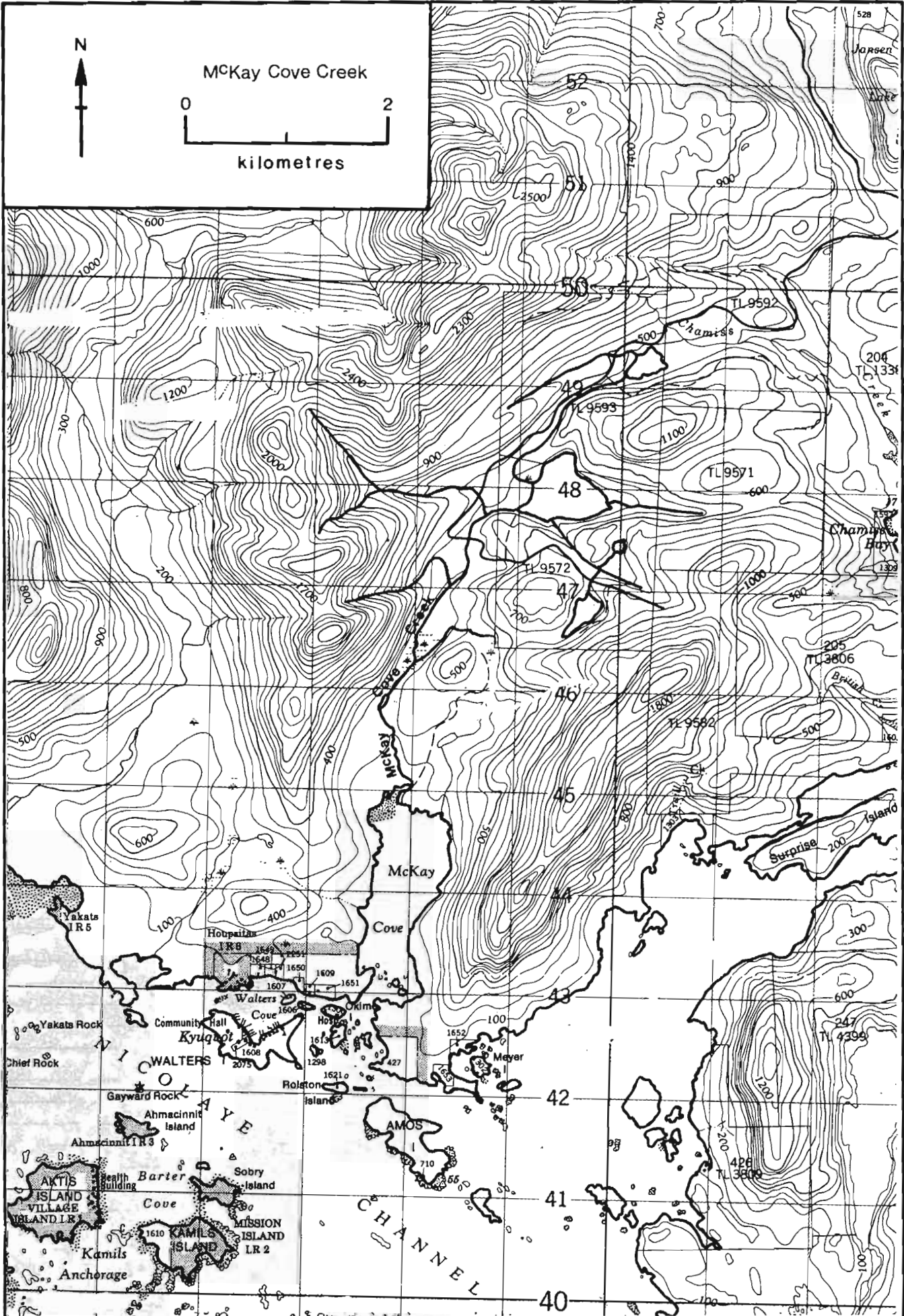
ESCAPEMENT RECORD FOR MALKSOPE RIVER

YEAR	SOCKEYE	CHINOOK	COHO	CHUM	PINK	STEELHEAD
1947			400	7500	200	
48			75	3500	75	
49			400	3500	75	
50			400	15000	75	
51			400	7500		
52			750	15000	200	
53			750	7500		
54		25	750	3500	200	
55		75	3500	3500		
56		400	1500	7500	400	
57		25	750	3500		
58		200	1500	15000	750	
59		N/O	1500	7500		
60		N/O	200	7500	400	
61		25	200	750		
62		200	200	7500	200	
63		N/O	1500	1500		
64		N/O	400	7500		
65		N/O	200	7500	200	
66		75	400	7500	200	
67		25	75	1500		
68		400	200	7500	750	
69		200	750	15000		
70		400	1500	35000	1500	
71		25	1500	15000	25	
72		75	400	13000	3500	
73			400	15000		
74		25	75	7500	400	
75		200	750	3500		
76			200	1500	25	
77			10	1000		
78				8000	300	
79	3	10	170	270		
80						
81						
82						
83						
84						
85						

TIMING

ARRIVE				SEPT		
START		M. SEPT	E. OCT	L. SEPT	M. SEPT	
PEAK		L. SEPT	M. OCT	M. OCT	E. OCT	
END		L. OCT	M. NOV	M. NOV	L. OCT	

REMARKS



NAME OF STREAM (McKay Cove Creek)
 CONSERVATION DISTRICT 4 STATISTICAL AREA 26
 LOCATION OF MOUTH Flows S. into McKay Cove, NE. of Kyuquot Sd., Rupert Dist.
 POSITION 50 127 SE
 LENGTH 2.4 km WIDTH 7.6 m DRAINAGE 15 km²
 COMPOSITION: BEDROCK _____ BOULDER _____ COARSE _____ FINE _____
 SILT & SAND _____ UNCLASSIFIED _____

PERCENT GRADIENT

0.00 - 0.25	
0.25 - 0.50	
0.50 - 0.75	
0.75 - 1.00	
> 1.00	

WETTED AREA 18240 m² SPAWNING AREA _____ m²

DISCHARGE (m³/s) _____

TEMPERATURE (°C) 7°C-51/11/12; 51/10/31. 13°C-51/09/21; 51/6/18. 16.5°C-51/8/13;

BARRIERS OR POINTS OF DIFFICULT ASCENT 51/7/22. 17°C-51/7/11; 51/6/29.
Impassable falls and log jam at 2.4 km.

SPAWNING DISTRIBUTION

SPECIES	SECTION OF STREAM USED
SOCKEYE	
CHINOOK	to 2.4 km
COHO	to 2.4 km
CHUM	to 2.4 km
PINK (ODD YEAR)	
PINK (EVEN YEAR)	to 2.4 km
STEELHEAD	

POTENTIAL OF INACCESSIBLE PORTION OF STREAM _____

GENERAL REMARKS

1949. Freezing temperatures through February during low water levels may have damaged spawning beds.
1959. Logging began in this area this year.
1971. There is some debris in the river due to abnormally high water levels.

Sketch of
McKay Cove Creek, 1966

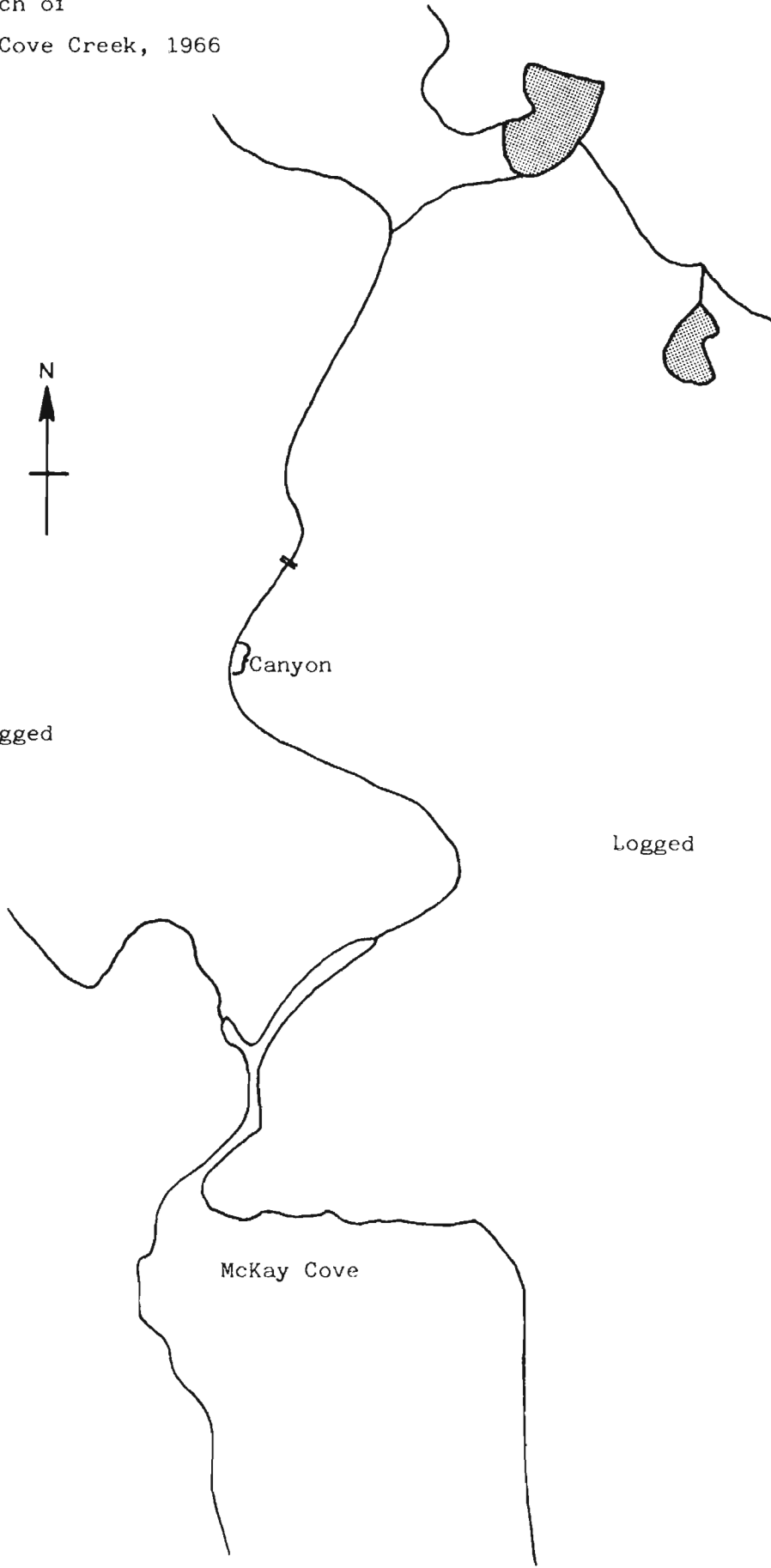


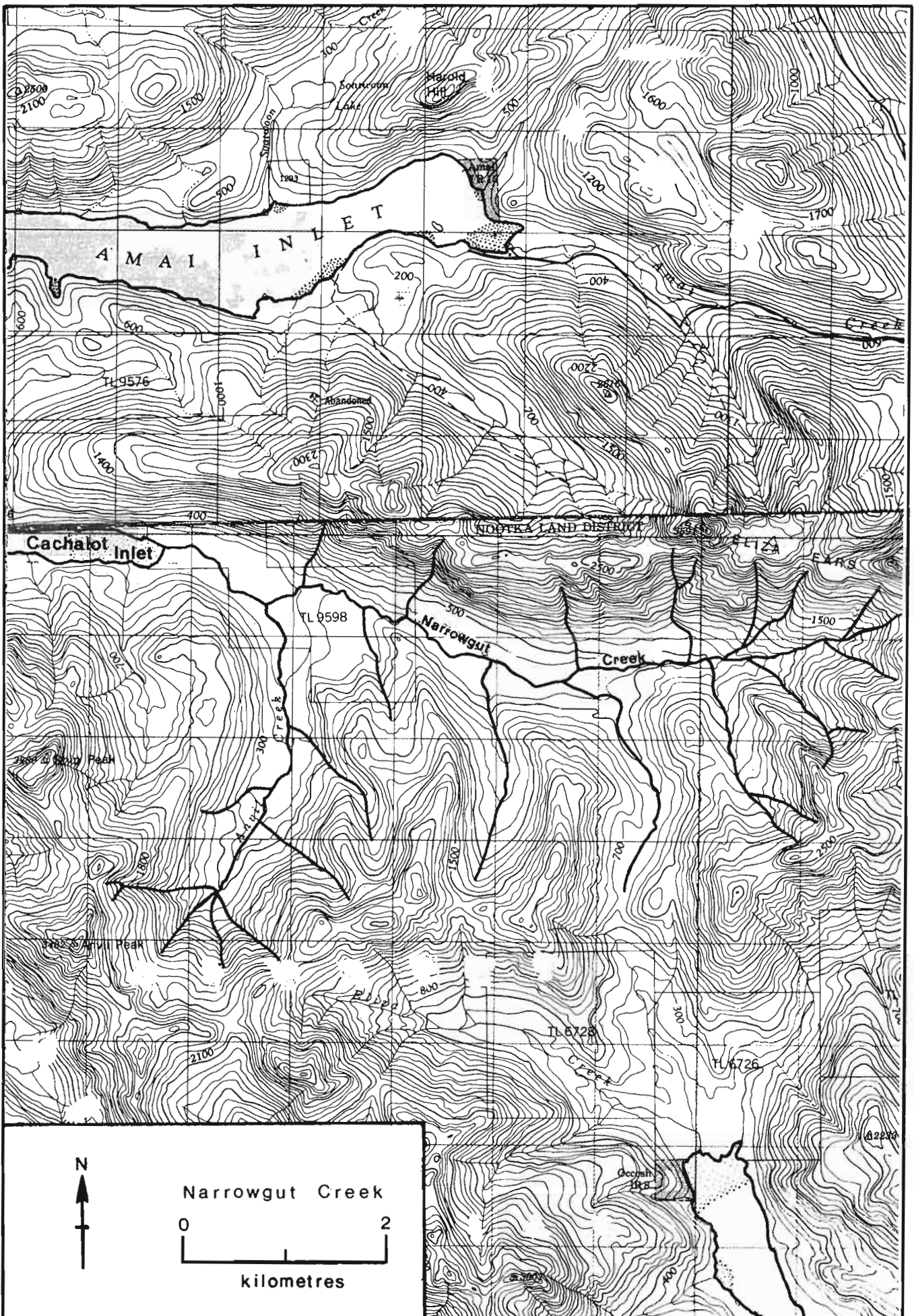
Logged

Canyon

Logged

McKay Cove





NAME OF STREAM NARROWGUT CREEK
 CONSERVATION DISTRICT 4 STATISTICAL AREA 26
 LOCATION OF MOUTH Flows W. into Cachalot Inlet, Nootka Dist.
 POSITION 49 127 NE
 LENGTH 4 km WIDTH 11 m DRAINAGE 25.9 km²
 COMPOSITION: BEDROCK 25% BOULDER 25% COARSE 50% FINE _____
 SILT & SAND _____ UNCLASSIFIED _____

PERCENT GRADIENT

0.00 - 0.25	
0.25 - 0.50	
0.50 - 0.75	
0.75 - 1.00	
>1.00	throughout

WETTED AREA 44000 m² SPAWNING AREA 22000 m²

DISCHARGE (m³/s) _____

TEMPERATURE (°C) _____

BARRIERS OR POINTS OF DIFFICULT ASCENT _____
Impassable falls at 4 km.

SPAWNING DISTRIBUTION

SPECIES	SECTION OF STREAM USED
SOCKEYE	
CHINOOK	to 4 km
COHO	to 4 km
CHUM	to 2 km
PINK (ODD YEAR)	
PINK (EVEN YEAR)	to 3 km
STEELHEAD	

POTENTIAL OF INACCESSIBLE PORTION OF STREAM _____

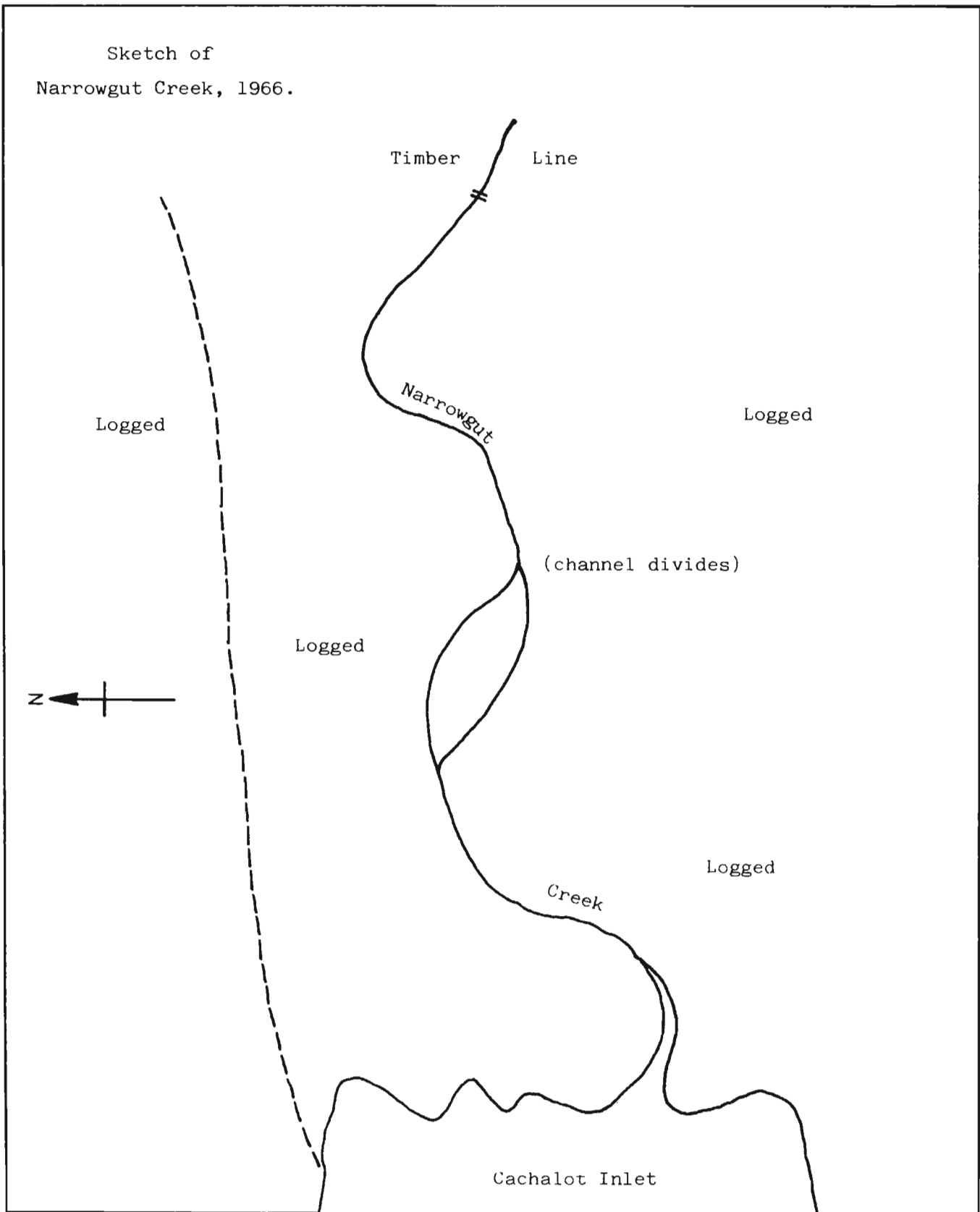
GENERAL REMARKS

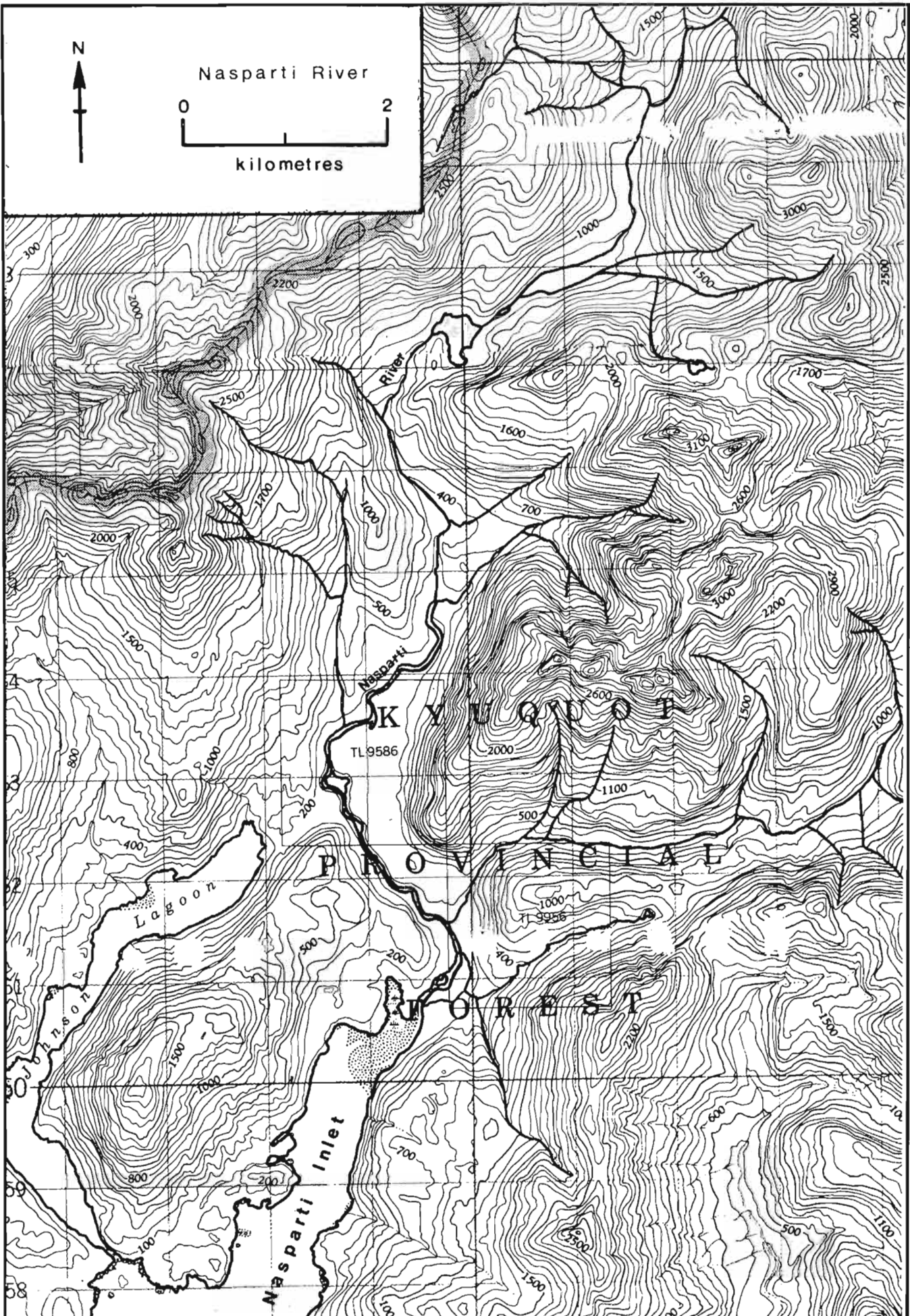
1959. Downward trend in chum numbers may be due to net fishery(Drum seines) in Amai and Cachalot Inlets. About 25000 chum were taken during the first week of the fall season.
1970. Lower section of the river was logged off several years ago. Now it has a good second growth.
1976. Salvage logging took place along this stream this year. A temporary crossing was constructed for July and August.
1978. The banks of this stream are eroding, resulting in a number of windfalls.

GENERAL REMARKS: (con't)

References:

Envirocon Ltd., 1977. Kyuquot Sound salmonid enhancement study. Reconnaissance and general feasibility study. Prepared for: Canada, Dept. of Fisheries and the Environment: 85 pp.





NAME OF STREAM _____ (Nasparti River)
 CONSERVATION DISTRICT _____ 4 _____ STATISTICAL AREA _____ 26 _____
 LOCATION OF MOUTH _____ Flows S. into Nasparti Inlet, Rupert Dist. _____
 _____ POSITION _____ 50 127 SW _____
 LENGTH _____ 15 _____ km WIDTH _____ 14 _____ m DRAINAGE _____ 65 _____ km²
 COMPOSITION: BEDROCK _____ 25% _____ BOULDER _____ COARSE _____ 25% _____ FINE _____ 25% _____
 SILT & SAND _____ 25% _____ UNCLASSIFIED _____

PERCENT GRADIENT

0.00 - 0.25	
0.25 - 0.50	
0.50 - 0.75	
0.75 - 1.00	to 3.2 km
>1.00	above 3.2 km

WETTED AREA _____ 210000 _____ m² SPAWNING AREA _____ 105000 _____ m²

DISCHARGE (m³/s) _____ 1 m³/sec (77/8/6) _____

TEMPERATURE (°C) _____

BARRIERS OR POINTS OF DIFFICULT ASCENT _____

Passable log jam at 0.4 km.

Passable canyon at 3.2 km.

SPAWNING DISTRIBUTION

SPECIES	SECTION OF STREAM USED
SOCKEYE	
CHINOOK	
COHO	mainly above the canyon
CHUM	to 3.2 km
PINK (ODD YEAR)	
PINK (EVEN YEAR)	to 3.2 km
STEELHEAD	mainly above the canyon

POTENTIAL OF INACCESSIBLE PORTION OF STREAM _____

GENERAL REMARKS

1951. This stream's chum run is one of the earliest in the area.
 1957. The early run of chum seems to have dissappeared and the fall run is not large enough to use the stream to its full capacity.
 1961. Poor escapements may be due to scouring and silting and frequent changes in the streambed.
 1965. This stream is subject to scouring during flooding.
 1973. This watershed has not yet been logged.
 1977. Rearing areas are well distributed below the canyon. There are also well established side channels above the canyon with good rearing potential.

GENERAL REMARKS(con't)

References:

Sprout, P., 1977. A preliminary report on the salmon resource and potential enhancement opportunities of the northern west coast of Vancouver Island.(Areas 26 and 27) Manuscript in preparation.

ESCAPEMENT RECORD FOR

(Naspartí River)

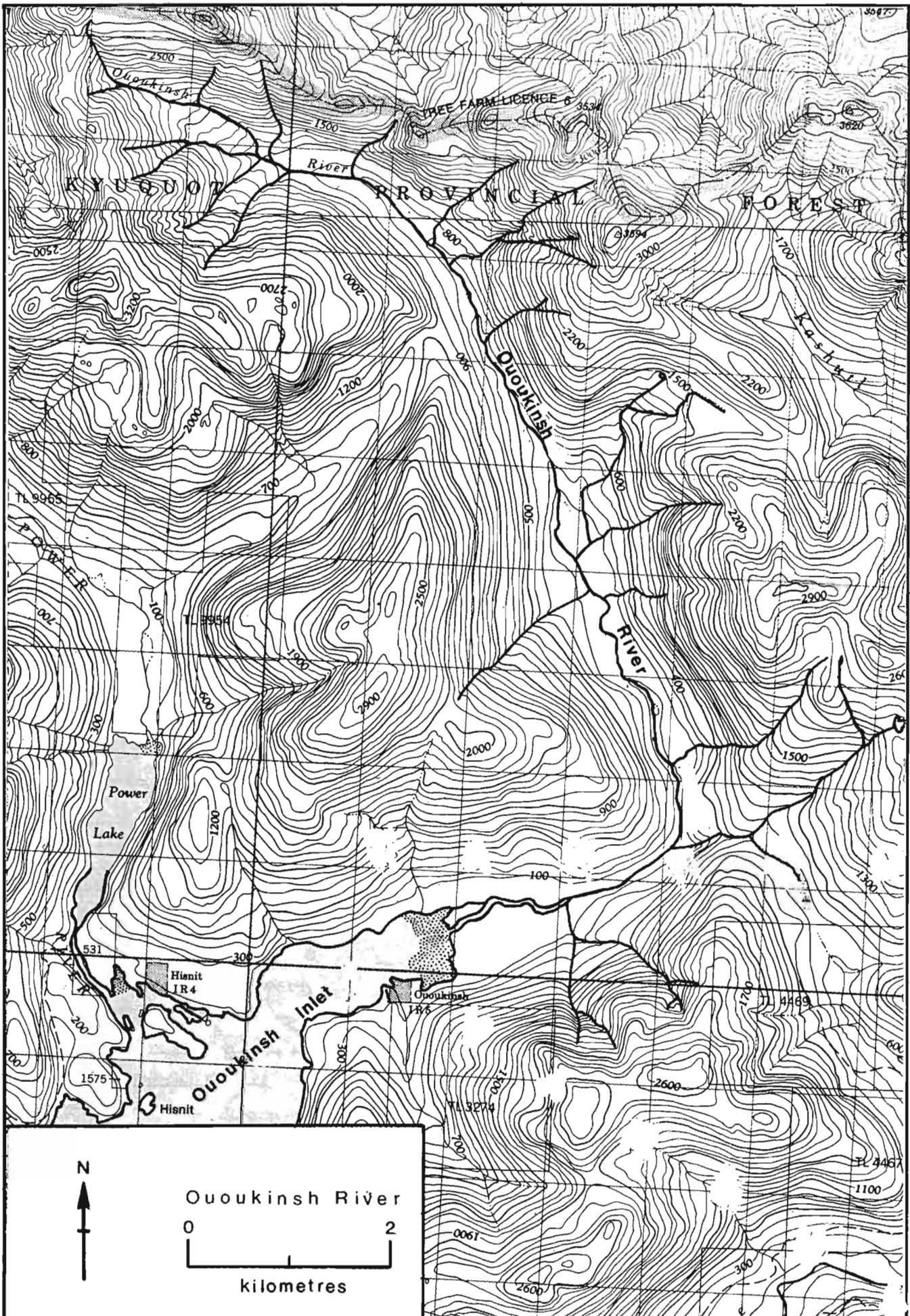
YEAR	SOCKEYE	CHINOOK	COHO	CHUM	PINK	STEELHEAD
1947			200	3500	200	
48			200	3500	25	
49			200	400	75	
50			NO	RECORD		
51			400	3500		
52			400	3500	200	
53			400	1500		
54			750	2500	400	
55			750	400		75
56			750	3500	400	
57			750	1500		
58		75	400	1500	400	
59		N/O	200	750		
60		N/O	25	750	400	
61			75	200		
62		N/O	200	750	200	
63		N/O	25	25		
64			N/O	N/O	25	
65			25	200	25	
66		2	25	750	25	
67			25	750		
68		25	25	400	25	
69			25	1500		
70		25	75	750	25	
71		N/O	N/O	750		
72		25		2000	25	
73				3500		
74			200	1500	750	
75		25	200	1500		
76				200		
77			100	300		
78				7000		
79				1		
80						
81						
82						
83						
84						
85						

TIMING

ARRIVE						
START			M. SEPT	E. OCT	M. SEPT	
PEAK			M. OCT	L. OCT	L. SEPT	
END			NOV	E. NOV		

REMARKS

There are winter and summer runs of steelhead present in this river.



NAME OF STREAM OUOUKINSH RIVER
 CONSERVATION DISTRICT 4 STATISTICAL AREA 26
 LOCATION OF MOUTH Flows SW. into head of Ououkinsh Inlet, Rupert Dist.
 POSITION 50 127 SE
 LENGTH 13 km WIDTH 9 m DRAINAGE 37 km²
 COMPOSITION: BEDROCK 10% BOULDER 50% COARSE 20% FINE 20%
 SILT & SAND _____ UNCLASSIFIED _____

PERCENT GRADIENT

0.00 - 0.25	
0.25 - 0.50	
0.50 - 0.75	
0.75 - 1.00	
>1.00	

WETTED AREA 117000 m² SPAWNING AREA 46800 m²

DISCHARGE (m³/s) 0.7 m³/sec (77/8/17)

TEMPERATURE (°C) _____

BARRIERS OR POINTS OF DIFFICULT ASCENT _____
Canyons at 3 km and 3.2 km.(velocity barriers to chum and pink)

SPAWNING DISTRIBUTION

SPECIES	SECTION OF STREAM USED
SOCKEYE	
CHINOOK	throughout
COHO	throughout
CHUM	to 3 km
PINK (ODD YEAR)	
PINK (EVEN YEAR)	to 3 km
STEELHEAD	

POTENTIAL OF INACCESSIBLE PORTION OF STREAM _____

GENERAL REMARKS

1949, 1951. Some chum spawning in the estuary.
 1958. Approximately 1200 chum were taken by net fishery in Ououkinsh Inlet.
 1975. Logging will be taking place in 1976.
 1977. Rearing potential in the lower 3.2 km is high due to well protected back-waters and side channels.

References:

Sprout, P., 1977. A preliminary report on the salmon resource and potential enhancement opportunities of the northern west coast of Vancouver Island. (Areas 26 and 27) Manuscript in preparation.

ESCAPEMENT RECORD FOR OUOUKINSH RIVER

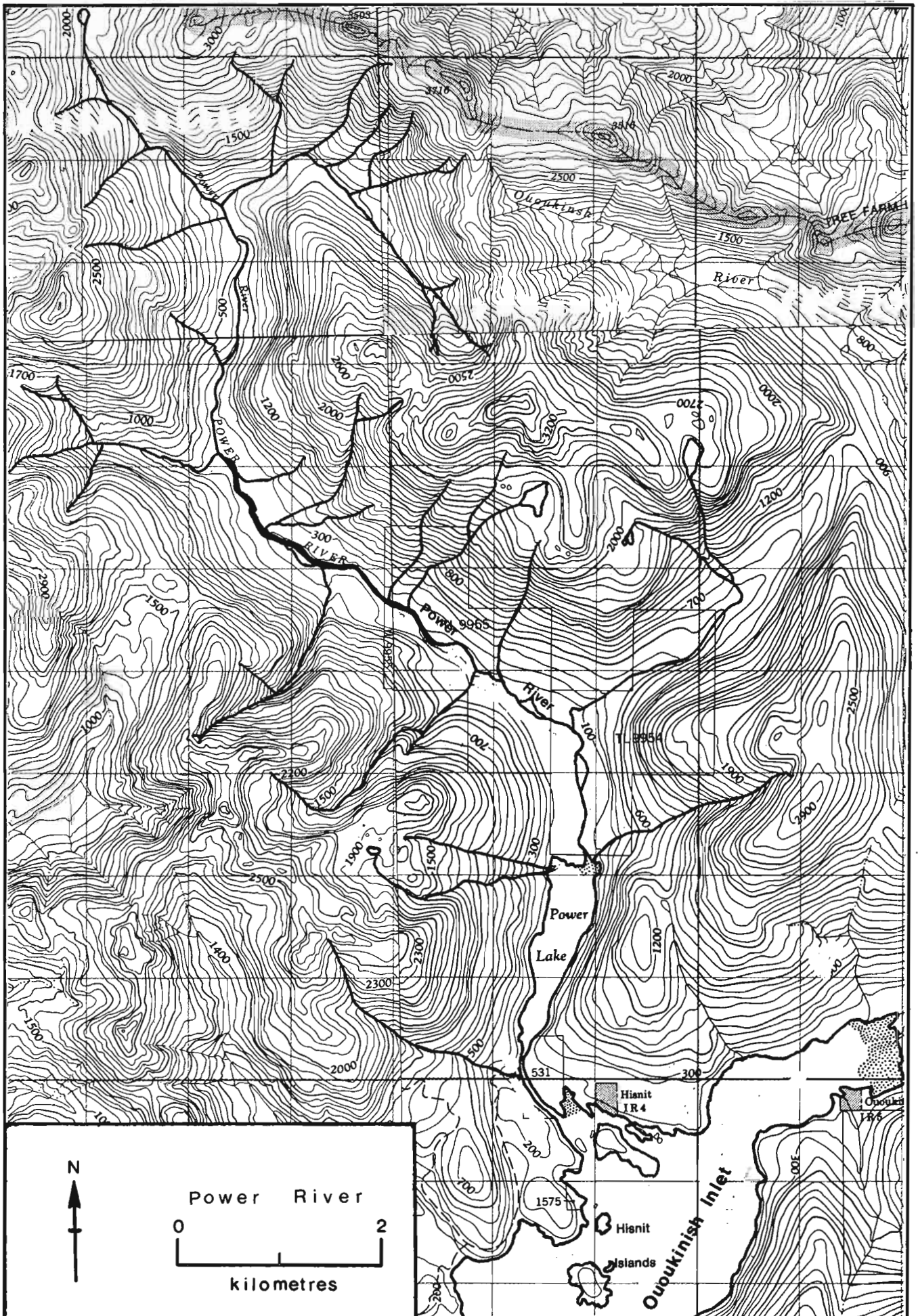
YEAR	SOCKEYE	CHINOOK	COHO	CHUM	PINK	STEELHEAD
1947		75	400	3500		
48		400	400	1500	75	
49		400	400	3500	75	
50		200	400	15000	750	
51		75	400	1500	25	
52		400	750	7500	750	
53		400	750	3500		
54		200	750	3500	400	
55		75	750	750		25
56		200	750	1500	400	
57		75	750	3500		
58		200	400	3500	400	
59		N/O	400	1500		
60		400	25	3500	750	
61		25	75	400		
62		25	25	3500	400	
63		N/O	750	400		
64		N/O	25	750	25	
65		N/O	75	400	25	
66		25	25	1500	750	
67			25	3500	25	
68		N/O	25	400	400	
69		25	25	7500		
70		25	750	3500	3500	
71		25	200	3500		
72		N/O	750	3500	7500	
73		75	400	15000		
74			400	3500	1500	
75		25	200	3500		
76		400	200	400	1500	
77		N/O	N/O	2000		
78		N/O	N/O	7000		
79			110	274		
80						
81						
82						
83						
84						
85						

TIMING

ARRIVE						
START			E. OCT	E. OCT	M. SEPT	
PEAK		L. SEPT	M. OCT	L. OCT	E. OCT	
END			L. OCT	E. NOV	L. OCT	

REMARKS

Winter/spring run of steelhead present.



NAME OF STREAM POWER RIVER
 CONSERVATION DISTRICT 4 STATISTICAL AREA 26
 LOCATION OF MOUTH Flows SE. into head of Ououkinsh Inlet, Rupert Dist.
 POSITION 50 127 SE
 LENGTH 16 km WIDTH 7.6 m DRAINAGE 44 km²
 COMPOSITION: BEDROCK 5% BOULDER 10% COARSE 40% FINE 20%
 SILT & SAND 25% UNCLASSIFIED _____

PERCENT GRADIENT

0.00 - 0.25	
0.25 - 0.50	
0.50 - 0.75	
0.75 - 1.00	
> 1.00	

WETTED AREA 121600 m² SPAWNING AREA 72960 m²

DISCHARGE (m³/s) 0.9 m³/sec (77/8/17)

TEMPERATURE (°C) _____

BARRIERS OR POINTS OF DIFFICULT ASCENT _____
Passable log jams in the upper part of the river.

SPAWNING DISTRIBUTION

SPECIES	SECTION OF STREAM USED
SOCKEYE	in lake and some above lake
CHINOOK	in lower river and lake
COHO	in river above lake; also in lake
CHUM	in lower river and upper river, just above lake
PINK (ODD YEAR)	
PINK (EVEN YEAR)	in river above lake
STEELHEAD	

POTENTIAL OF INACCESSIBLE PORTION OF STREAM _____

GENERAL REMARKS

1949. Cold temperatures and low water through February may have damaged spawning beds.
1957. The main spawning area is in the river at the head of the lake and is several miles long.
1960. Logging began this year.
1965. This river is noted for flash floods.(1964,1965,1967,1968)
1969. The lower river is shallow and very rapid. The outlet of the lake can be navigated by fish during ideal conditions.
1975. Extensive silting throughout the river was the result of a slide in the headwaters.

GENERAL REMARKS(con't)

References:

Sprout, P., 1977. A preliminary report on the salmon resource and potential enhancement opportunities of the northern west coast of Vancouver Island.(Area 26 and 27) Manuscript in preparation.

ESCAPEMENT RECORD FOR POWER RIVER

YEAR	SOCKEYE	CHINOOK	COHO	CHUM	PINK	STEELHEAD
1947	200	75	750	750	200	
48	3500	200	1500	3500	200	
49	3500	400	750	3500	200	
50	400	200	750	3500	200	
51	1500	400	750	750	25	
52	3500	750	1500	3500	200	
53	3500	400	1500	3500		
54	1500	400	1500	1500	200	
55	1500	200	3500			750
56	750	400	3500	750	750	750
57	1500	400	1500	3500		400
58	750	200	1500	750	400	
59	400	200	750	400	3500	
60	750	N/O	1500	750	750	
61	1500	75	400	400		
62	3500	75	3500	1500	1500	
63	1500	200	3500	200		
64	1500	1500	N/O	400	N/O	
65	1500	200	400	750	75	
66	1500	200	400	400	200	
67	1500	25	75	400	N/O	
68	3500	400	25	400	75	
69		400	400	200	25	
70		25	25	200	200	
71	200	75	200	750		
72		25	75	200	3500	
73	25	25	400	200		
74	200	25	75	25	75	
75	25		200	200		
76		200	200	200		
77		60	N/O	300		
78	N/O	6	10	80	N/O	
79	110	200	350	700	100	
80						
81						
82						
83						
84						
85						

TIMING

ARRIVE						
START	M. AUG	M. SEPT	E. OCT	E. OCT	E. SEPT	
PEAK	AUG	M. OCT	M. OCT	M. OCT	M. SEPT	
END	E. SEPT	L. OCT	L. OCT	M. NOV	L. SEPT	

REMARKS

Winter/spring run and a summer run of steelhead are present in this river.



NAME OF STREAM TAHSISH RIVER
 CONSERVATION DISTRICT 4 STATISTICAL AREA 26
 LOCATION OF MOUTH Flows S. into head of Tahsish Inlet, Rupert Dist.
 POSITION 50 127 SE
 LENGTH 8.5 km WIDTH _____ m DRAINAGE 259.5 km²
 COMPOSITION: BEDROCK _____ BOULDER _____ COARSE _____ FINE _____
 SILT & SAND _____ UNCLASSIFIED _____

PERCENT GRADIENT

0.00 - 0.25	
0.25 - 0.50	
0.50 - 0.75	
0.75 - 1.00	
> 1.00	

WETTED AREA _____ m² SPAWNING AREA _____ m²

DISCHARGE (m³/s) 3 m³/sec (77/8/13)

TEMPERATURE (°C) 2°C-51/11/16; 12°C-51/9/30; 14°C-51/9/17, 51/8/17; 12.5°C-51/7/7

BARRIERS OR POINTS OF DIFFICULT ASCENT _____

A series of impassable rapids and falls in the canyon area at 8.5 km.
Passable log jam at 0.8 km.

SPAWNING DISTRIBUTION

SPECIES	SECTION OF STREAM USED
SOCKEYE	
CHINOOK	to canyon
COHO	to canyon - some in lower end of Kwois Creek
CHUM	to 6 km; mainly in first 3 km, some in intertidal area & Silburn Cr.
PINK (ODD YEAR)	
PINK (EVEN YEAR)	to 6 km
STEELHEAD	

POTENTIAL OF INACCESSIBLE PORTION OF STREAM _____

An additional 14 km of spawning and rearing area exists above the canyon.

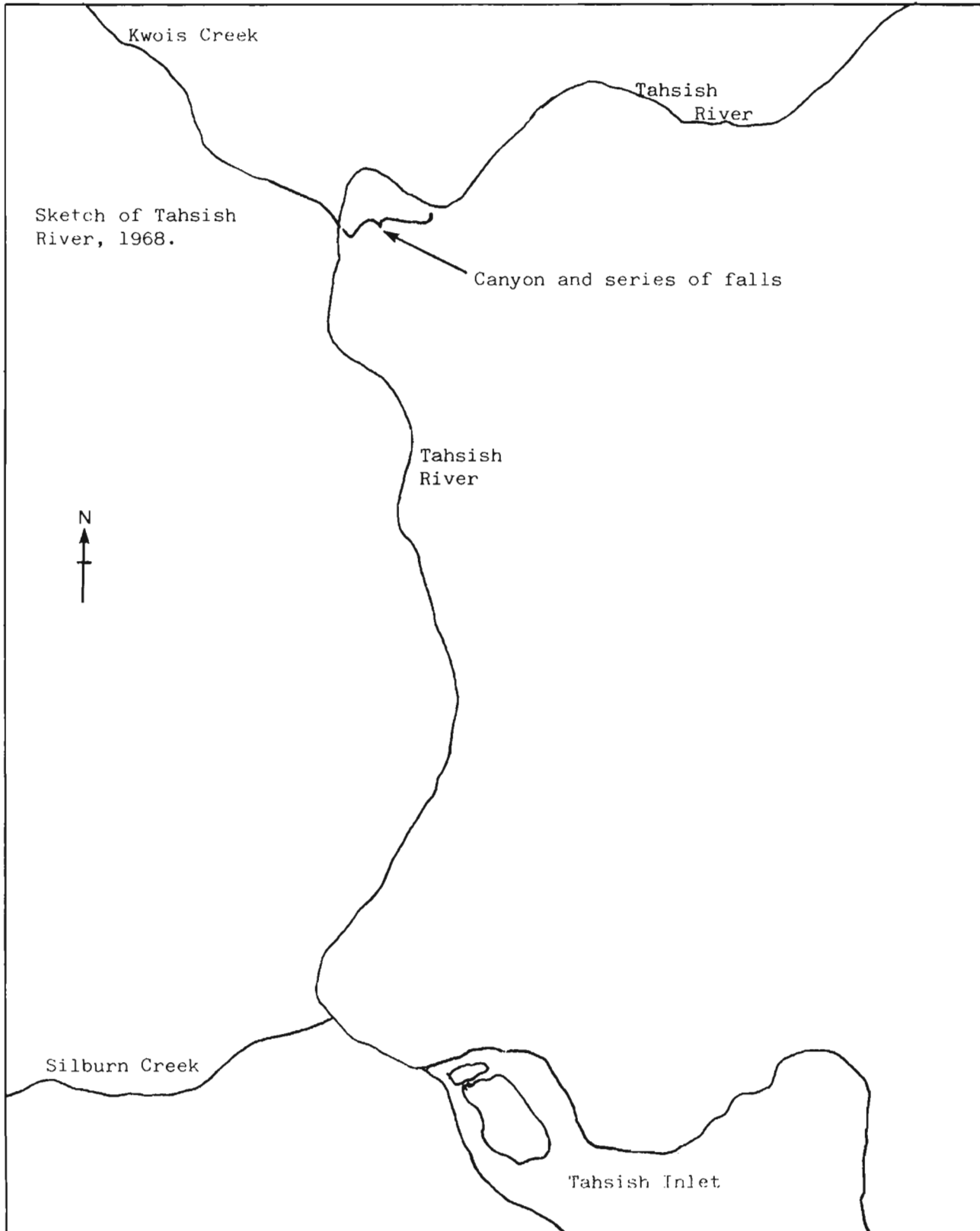
GENERAL REMARKS

1951. Tahsish River is the most important salmon stream in Kyuquot subdistrict.
1957. This river is being heavily fished by trout fishermen. The reduced run in this river is believed to be due to the the "trap" at Yaku Bay. It is recommended that the boundary be changed.
1971. The log jam was blasted this year but proved to be deeper than expected. More work is required to completely clear it.
1974. River has diverted to a new channel over the last few years.
1977. The river forks about 5 km from the mouth; the left fork(Kwois Cr.) tends to dry up in the summer; while the right fork maintains a good water level.

GENERAL REMARKS(con't)

References:

Sprout, P., 1977. A preliminary report on the salmon resource and potential enhancement opportunities of the northern west coast of Vancouver Island.(Areas 26 and 27) Manuscript in preparation.



ESCAPEMENT RECORD FOR TAHSISH RIVER

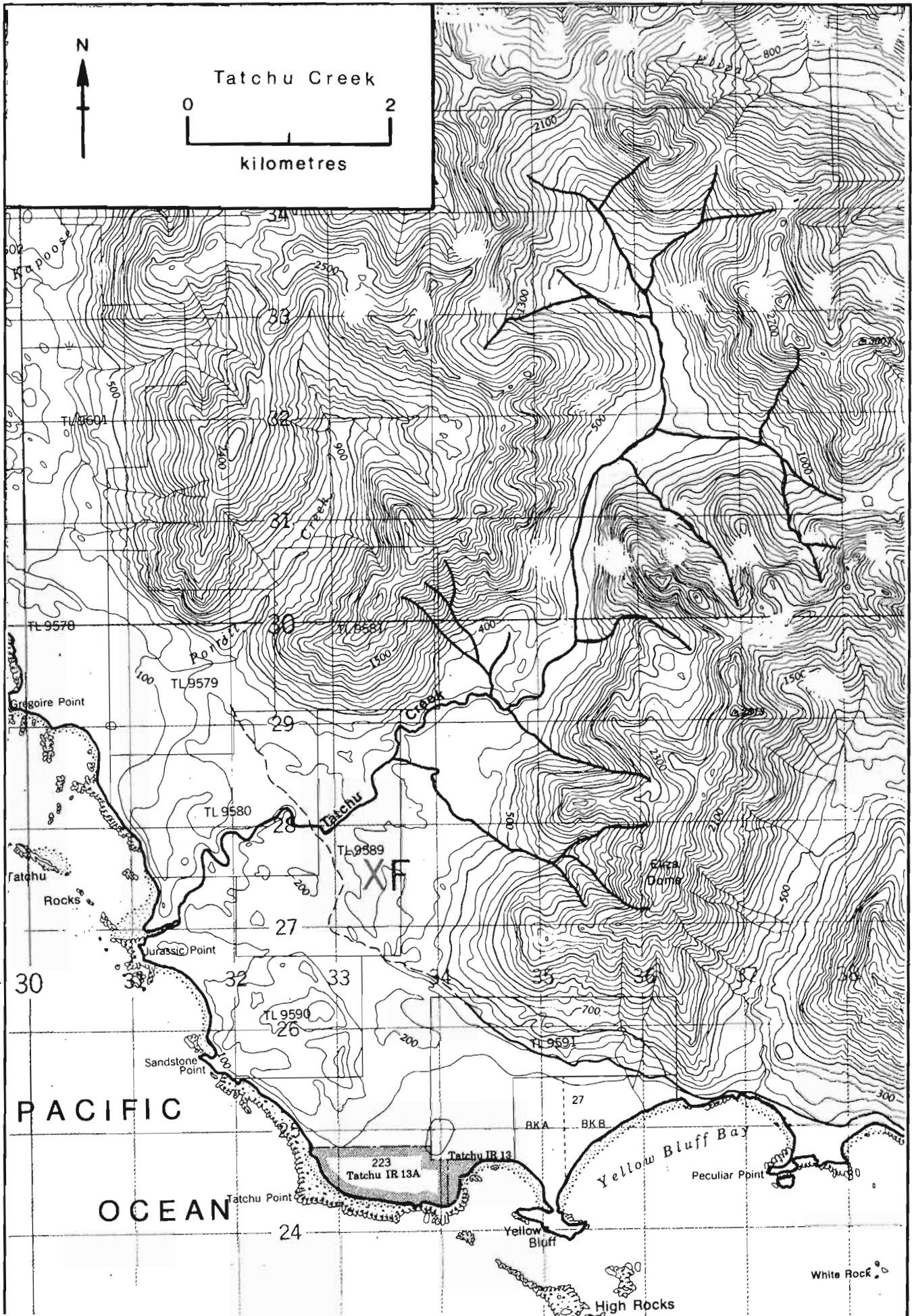
YEAR	SOCKEYE	CHINOOK	COHO	CHUM	PINK	STEELHEAD
1947		75	75	7500		
48		3500	3500	7500		
49		3500	1500	15000		
50			NO RECORD			
51		3500	3500	7500		75
52		7500	3500	15000	3500	25
53		3500	1500	15000		25
54		3500	750	7500	400	
55		3500	3500	7500		
56		3500	7500	3500	3500	
57		3500	3500	7500		
58	200	1500	1500	15000	1500	
59		200	750	15000		
60		750	750	7500	750	
61		400	750	3500		
62		750	750	3500	N/0	
63		3500	750	3500		
64		1500	200	3500	N/0	
65		25	200	3500	25	
66		1500	400	7500	3500	
67		750	750	7500		
68		1500	200	3500	1500	
69		750	25	7500		
70		1500	1500	15000	1500	
71		750	7500	15000		
72		750	3500	31000	750	
73		1500	400	7500		
74		1500	400	7500	750	
75		25	25	3500		
76	25	25	1500	1500	750	
77	200	100	500	5000		
78	N/0	50	130	7500	1500	
79		200	150	2000	20	20
80						
81						
82						
83						
84						
85						

TIMING

ARRIVE						
START		M. SEPT	L. SEPT	E. OCT	M. SEPT	
PEAK		L. SEPT	M. OCT	L. OCT	L. SEPT	
END		L. OCT	M. NOV	M. NOV	M. OCT	

REMARKS

There are winter and summer runs of steelhead present in this river.



NAME OF STREAM TATCHU CREEK

CONSERVATION DISTRICT 4 STATISTICAL AREA 26

LOCATION OF MOUTH Flows SW. into Pacific Ocean, NW. of Tatchu Pt., Nootka Dist.

POSITION 49 127 NE

LENGTH 5.6 km WIDTH _____ m DRAINAGE 33.7 km²

COMPOSITION: BEDROCK _____ BOULDER _____ COARSE _____ FINE _____

SILT & SAND _____ UNCLASSIFIED _____

PERCENT GRADIENT

0.00 - 0.25	
0.25 - 0.50	
0.50 - 0.75	
0.75 - 1.00	
> 1.00	

WETTED AREA _____ m² SPAWNING AREA _____ m²

DISCHARGE (m³/s) _____

TEMPERATURE (°C) _____

BARRIERS OR POINTS OF DIFFICULT ASCENT _____

SPAWNING DISTRIBUTION

SPECIES	SECTION OF STREAM USED
SOCKEYE	in first 3 km
CHINOOK	in first 3 km
COHO	in first 3 km
CHUM	in first 3 km
PINK (ODD YEAR)	
PINK (EVEN YEAR)	in first 3 km
STEELHEAD	

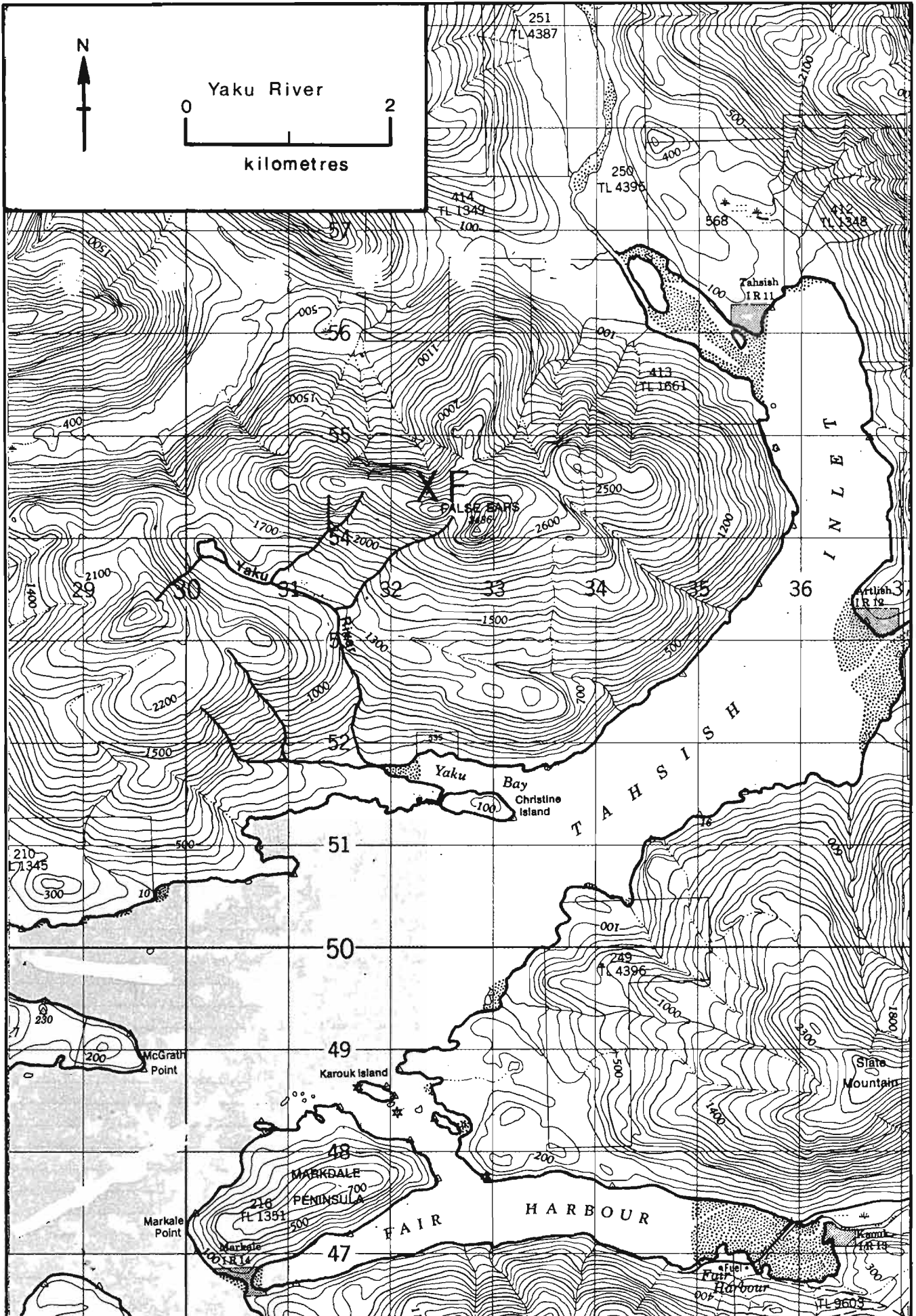
POTENTIAL OF INACCESSIBLE PORTION OF STREAM _____

GENERAL REMARKS

1956. This stream is difficult to inspect because its mouth is open to the Pacific Ocean.

1977. During hot weather, this stream is subject to rapid decreases in water flows.

1978. This watershed has been extensively logged and has a number of log jams. Gravel quality is poor.



NAME OF STREAM _____ (Yaku River)
 CONSERVATION DISTRICT _____ 4 _____ STATISTICAL AREA _____ 26 _____
 LOCATION OF MOUTH Flows SE. into Yaku Bay, N. side of Tahsish Inlet, Kyuquot Sd.,
Rupert Dist. _____ POSITION 50 127 SE _____
 LENGTH _____ km WIDTH _____ m DRAINAGE 6.5 km² _____
 COMPOSITION: BEDROCK _____ BOULDER _____ COARSE _____ FINE _____
 SILT & SAND _____ UNCLASSIFIED _____

PERCENT GRADIENT

0.00 - 0.25	
0.25 - 0.50	
0.50 - 0.75	
0.75 - 1.00	
> 1.00	throughout

WETTED AREA _____ m² SPAWNING AREA _____ m²
 DISCHARGE (m³/s) _____
 TEMPERATURE (°C) _____
 BARRIERS OR POINTS OF DIFFICULT ASCENT _____

SPAWNING DISTRIBUTION

SPECIES	SECTION OF STREAM USED
SOCKEYE	
CHINOOK	
COHO	
CHUM	mainly in the first 0.8 km
PINK (ODD YEAR)	
PINK (EVEN YEAR)	mainly in the first 0.8 km
STEELHEAD	

POTENTIAL OF INACCESSIBLE PORTION OF STREAM _____

GENERAL REMARKS

1979. Logging has started in an upper feeder stream. Falling occurred in this feeder stream and, as a result, debris will be entering the main Yaku River.

References:

Envirocon Ltd., 1977. Kyuquot Sound salmonid enhancement study. Reconnaissance and general feasibility study. Prepared for: Canada, Dept. of Fisheries and the Environment: 85 pp.

METRIC EQUIVALENTS

<u>Length</u>		<u>Area</u>	
centimeter (cm)	= 0.394 in	square centimeter (in ²)	= 0.155 in ²
meter (m)	= 3.280 ft	square meter (m ²)	= 10.760 ft ²
meter (m)	= 1.094 yd	square meter (m ²)	= 1.196 yd ²
kilometer (km)	= 0.621 mi	square kilometer (km ²)	= 0.386 mi ²
		hectare (ha)	= 2.470 a
inch (in)	= 2.540 cm	square inch (in ²)	= 6.451 cm ²
foot (ft)	= 0.305 m	square foot (ft ²)	= 0.093 m ²
yard (yd)	= 0.914 m	square yard (yd ²)	= 0.836 m ²
mile (mi)	= 1.609 km	square mile (mi ²)	= 2.590 km ²
		acre (a)	= 0.405 ha

<u>Volume</u>		<u>Weight</u>	
cubic centimeter (cm ³)	= 0.061 in ³	gram (gm)	= 0.035 oz
liter (L)	= 61.023 in ³	kilogram (kg)	= 2.205 lb
liter (L)	= 0.035 ft ³	kilogram (kg)	= 0.001 ton (short)
liter (L)	= 0.264 U.S. gal	tonne (t)	= 1.103 ton (short)
	= 0.220 Imp. gal		
cubic meter (m ³)	= 35.315 ft ³	ounce (oz)	= 31.103 gm
cubic meter (m ³)	= 1.308 yd ³	pound (lb)	= 0.373 kg
		ton (short)	= 907.180 kg
cubic inch (in ³)	= 16.387 cm ³	ton (short)	= 0.907 t
cubic inch (in ³)	= 0.016 L		
cubic foot (ft ³)	= 0.028 m ³		
cubic foot (ft ³)	= 28.320 L		
cubic yard (yd ³)	= 0.765 m ³		
U.S. gallon (gal)	= 3.785 L		
Imp. gallon (gal)	= 4.546 L		

Velocity

meter per second (m/s)	= 3.280 ft/s
feet per second (ft/s)	= 0.305 m/s

Discharge

cubic meter per second (m ³ /s)	= 35.315 ft ³ /s
cubic foot per second (ft ³ /s)	= 0.028 m ³ /s
cubic meter per second (m ³ /s)	= 15350.879 U.S. gal/min
	= 13198.628 Imp. gal/min

Temperature

Degrees Centigrade (°C)	= 5/9 (Degrees Fahrenheit - 32)
Degrees Fahrenheit (°F)	= 9/5 (Degrees Centigrade) + 32