



REVISED ANADROMOUS STREAM CATALOG FOR
SOUTHEASTERN ALASKA

Appendix B - District 2

Volume I

South End Area Survey Data

By:
Paul Novak

1975

ADF&G TECHNICAL DATA REPORTS

This series of reports is designed to facilitate prompt reporting of data from studies conducted by the Alaska Department of Fish and Game, especially studies which may be of direct and immediate interest to scientists of other agencies.

The primary purpose of these reports is presentation of data. Description of programs and data collection methods is included only to the extent required for interpretation of the data. Analysis is generally limited to that necessary for clarification of data collection methods and interpretation of the basic data. No attempt is made in these reports to present analysis of the data relative to its ultimate or intended use.

Data presented in these reports is intended to be final, however, some revisions may occasionally be necessary. Minor revision will be made via errata sheets. Major revisions will be made in the form of revised reports.

REVISED ANADROMOUS STREAM CATALOG OF
SOUTHEASTERN ALASKA

By

Paul Novak
Alaska Department of Fish and Game
Division of Commercial Fisheries
Ketchikan, Alaska

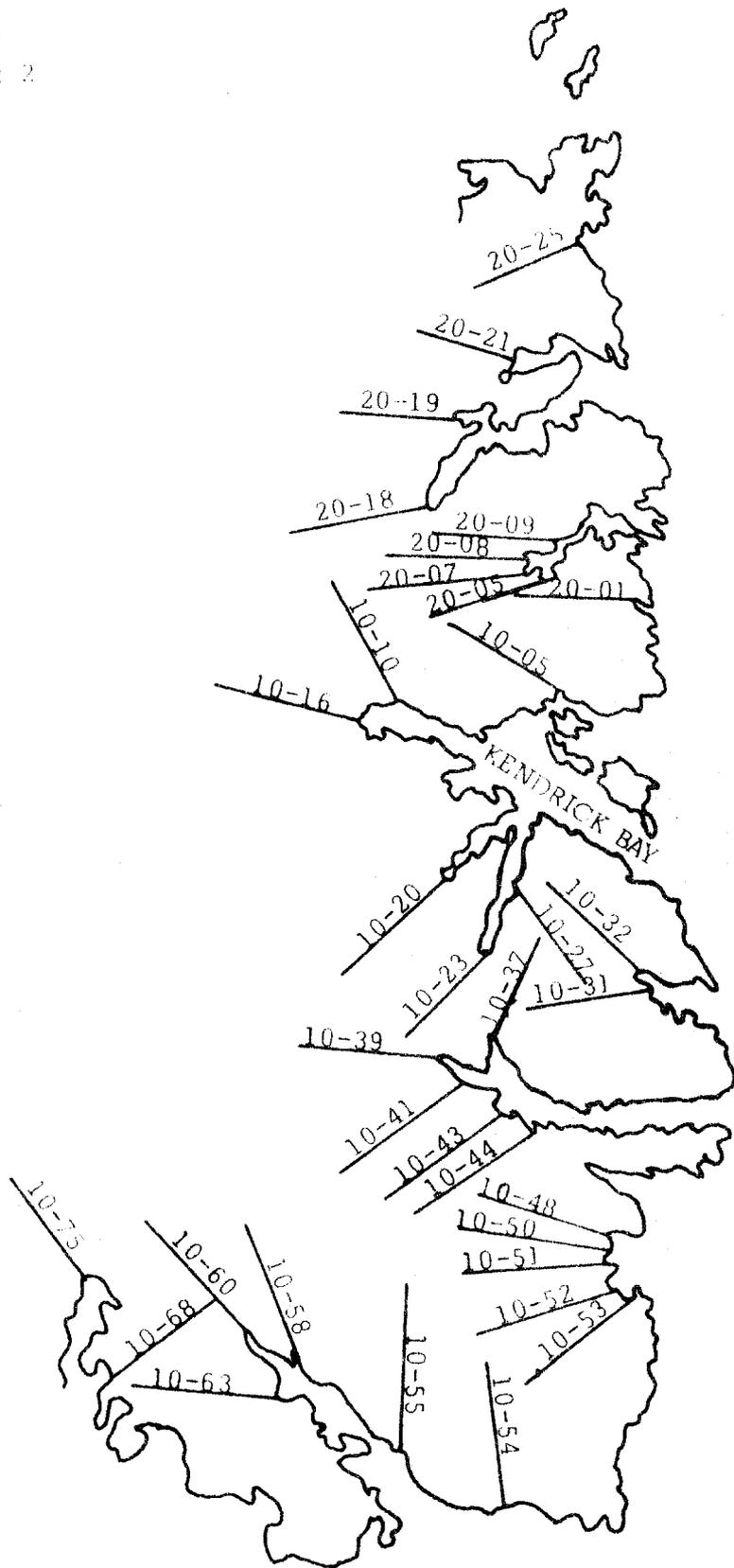
1975

Appendix B - District 2

Volume I

South End Area Survey Data

Statistical Area 102
South End - District 2



SUMMARY
STREAM EVALUATION

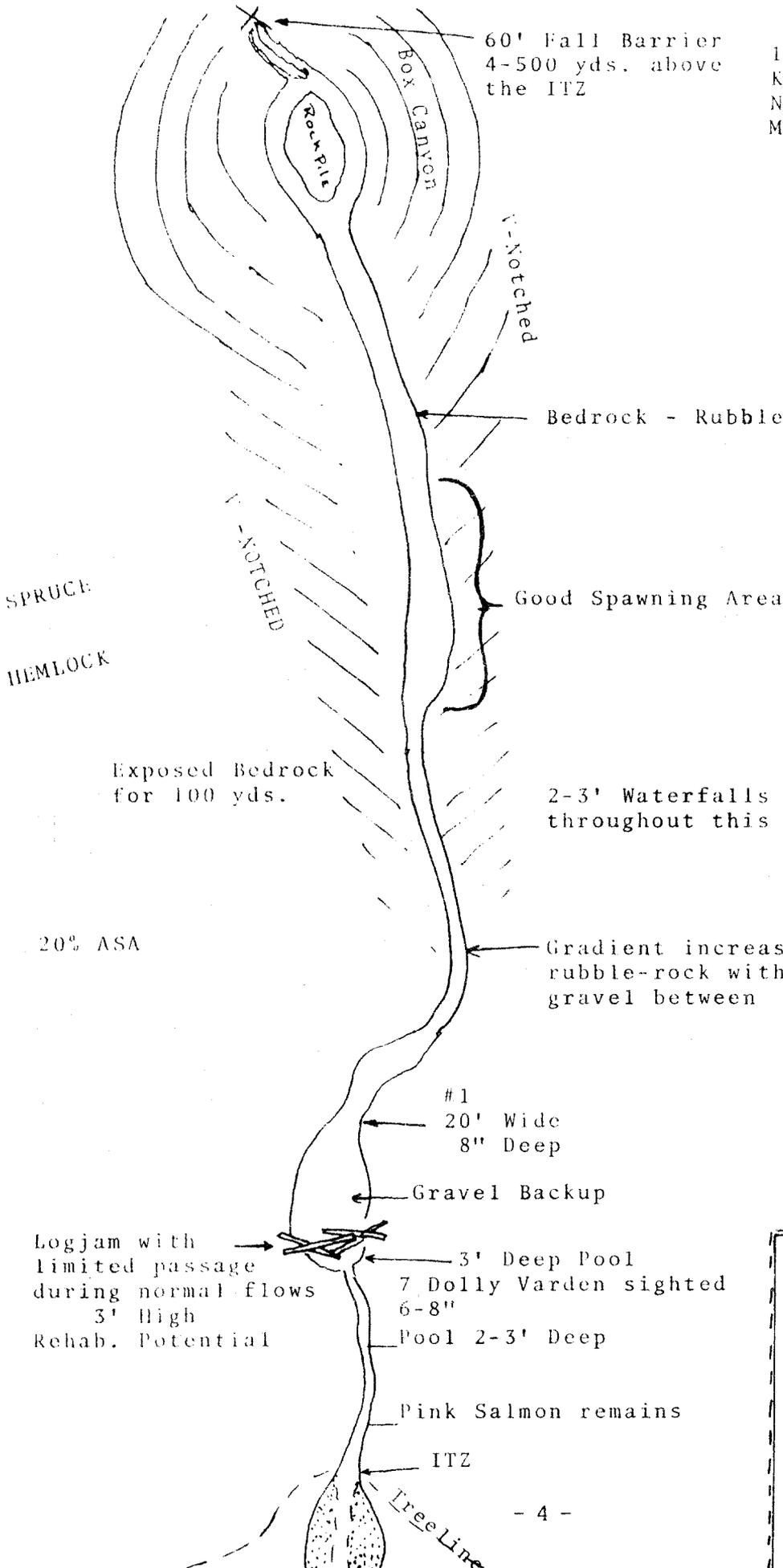
DISTRICT 2

Name & Number	Average Width	Length	Area (Ft ²)	M ²	Spawning Area (m ²)	Available Area (m ²)
Kendrick Is. Cr. 102-10-05	20'	1500'	30,000	2787	20%	557
W. Arm Kendrick B. 102-10-10	15'	1055'	15,825	1470	40%	588
Short Arm 102-10-20	8'	675'	5,400	502	20%	100
S. Arm Kendrick 102-10-23	8'	900'	7,200	669	20%	134
102-10-27	12'	2700'	32,400	3010	15%	452
	4'	300'	1,200	111	45%	50
102-10-31	8'	450'	3,600	334	35%	117
102-10-32	NO SPAWNING POTENTIAL					
102-10-37	16'	450'	7,200	669	25%	167
(ITZ)	16'	375'	6,000	557	10%	56
Ed. McLean Arm 102-10-39	12'	1200'	14,400	1338	50%	669
(ITZ)	12'	600'	7,200	669	95%	636
S. McLean Arm 102-10-41	40'	975'	39,000	3623	10%	362
McLean Arm 102-10-43	15'	5280'	79,200	7358	40%	2943
S. McLean Arm 102-10-44	9.5'	525'	4,988	463	37.5%	174
(ITZ)	15'	300'	4,500	418	25%	105
Stone Rock Bay 102-10-48	40'	5000'	200,000	18,580	20%	3716
S. Stone Rock Bay 102-10-51	25'	1575'	39,375	3658	50%	1829
S. Side Stone Rock B. 102-10-52	8'	525'	4,200	390	60%	234
Nichols Bay 102-10-54	14'	1758'	24,612	2286	40%	914

Nichols Bay 102-10-55	20'	1700'	34,000	3159	17%	537
Nichols Bay 102-10-58	15'	1500'	22,500	2090	60%	1254
Nichols Bay Lake 102-10-60	65'	1050'	68,250	6340	10%	634
	75'	450'	33,750	3135	50%	1568
	75'	600'	45,000	4181	10%	418
Nichols Bay 102-10-63	4'	150'	600	56	50%	28
E. Bronson Bay 102-10-68	6'	225'	1350	125	5%	6
	102-10-75	6'	300'	1800	167	60%
Low. Hidden Bay 102-20-01	5'	825'	4125	383	20%	77
So. Hidden Bay 102-20-05	7'	750'	5250	488	30%	146
Center Hidden Bay 102-20-07	14'	1500'	21,000	1951	40%	780
E. Hidden Bay 102-20-08	6'	1000'	6000	557	25%	139
N. Hidden Bay 102-20-09	4.3'	675'	2903	270	50%	135
	4'	75'	300	28	10%	3
Ingraham Bay 102-20-18	8'	225'	1800	167	25%	42
Ingraham Point 102-20-19	15'	600'	9000	834	50%	418

SOUTH END TOTAL 20,088

102-10-05
Kendrick Island Creek
Novak
May 29, 1974



SPRUCE
HEMLOCK

SPRUCE
HEMLOCK

60' Fall Barrier
4-500 yds. above
the ITZ

Bedrock - Rubble

Good Spawning Area

Exposed Bedrock
for 100 yds.

2-3' Waterfalls
throughout this lower V-Notch area

20% ASA

Gradient increases
rubble-rock with good
gravel between

#1
20' Wide
8" Deep

Gravel Backup

Logjam with
limited passage
during normal flows
3' High
Rehab. Potential

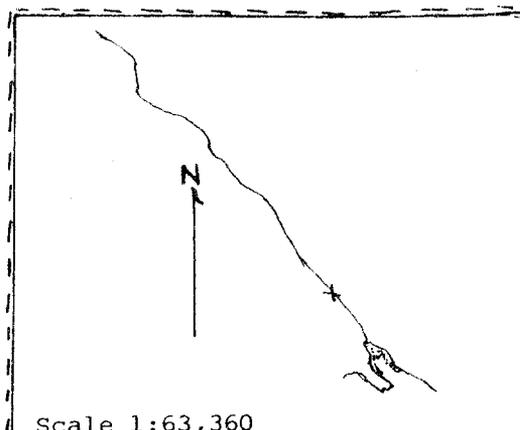
3' Deep Pool
7 Dolly Varden sighted
6-8"

Pool 2-3' Deep

Pink Salmon remains

ITZ

Tree Line



Scale 1:63,360

Kendrick Island Creek Catalog No. 102-10-05
 51°54'17" N WR No.
 132°01'22" W F No.
 Dixon Entrance D-1 Work Area Ketchikan
 Kendrick Bay Watershed Length 2.25 miles
 Area of Watershed 2.75 square miles
 Runoff Type Spring-runoff

Survey Route: Walk up stream for easiest survey route.

Remarks: Overstory heavy, therefore, it may be impossible to survey from the air.

Anchor large vessel on North side of entrance among Kendrick Islands in 6 fathom bay.

Time Spent: Surveyed First half of flood

FISHERY RESOURCES

Commercial Fisheries Pink, chum, coho

Depth of Unknown

Available spawning area - 557 M²
 Species Composition Unknown

Timing Middle

Schooling areas offmouth of stream in the bay

Shellfish Potential Clams sighted on the ITZ flats.

Sport Fisheries Dolly Varden and Coho

Land Use at Present None

History of Land Use None

Rehabilitation Potential Removal of the logjam barrier near the mouth of the stream.

Stability Stable below V-notch, but problems would arise if land use practices established in the V-notched section.

GAME RESOURCES

Beaver -----	Fish carcasses or bones (old or fresh) on banks, estimate	1
	Number of droppings	1
Deer -----	Number seen on tide flats	0
	Number seen up creek	0
	Number of broods seen	0
Rabbits -----	Number seen on tide flats	0
	Number seen up creek	0
	Number of broods seen	0
Squirrels -----	Number of broods seen	0
Field Mice -----	Number seen along creek	0
	Number of nests seen and location	0
Bank Swallows -----	Number seen at mouth of stream	0
Red Flats -----	Estimate length along beach	90 yds.
	Estimate width of beach	10'
	Est. grass covered on percent of flats	2%

STREAM INVENTORY FORM

Observers: Novak
 Date: May 29, 1974
 Temperature: 60°
 Weather: Clear-Calm

Name: Kendrick Island Creek

Number: 102-10-05

Station No.	1																		
Pool Size/Type	2/1																		
Riffle Type	20'-W																		
Width - Depth	8"-D																		
Pool Riffle Frequency	2																		
Bottom Type (Riffle)	4-5																		
Color/Turbidity	1																		
Velocity	2																		
Flow (C.F.S.)	7																		
Temp. (°F.)	50°																		
pH	5																		
Fry Abundance	2-7																		
Benthos Sample No.	-																		
Higher Plant Class	1																		
Aquatic Veg. Density	2																		
Ident.																			
(1) Mosses																			
(2) Algae	2																		

- 9 -

General Remarks (rehab., land use, barriers, log jams, etc.):

The barrier in the lower section of the stream should be removed to increase available spawning area to pink and chum salmon.

PEAK ESCAPEMENT RECORD

NAME: Kendrick Bay, N. shore 5 miles from head of W. arm

STREAM CATALOG NUMBER: 102-10-05

DATE	PINK	CHUM	OTHER SPECIES	REMARKS
Oct. 5, 1937	3,000			Very good escapement (G)
Aug. 2, 1947				Many coho fingerling. No adult.(G)

West Arm Kendrick Bay
102-10-10
Elton
5-29-74

Some cobble try seen in lower sections of stream

50% spawning
In this fork to a
falls 200 yards
upstream from forks.

8' wide
4" deep

Road to uranium mine

Bedrock and boulders,
no spawning

Cobble and
boulders with
pools on this fork.

15' wide
5" deep

75% spawning in
this 50 yards
(cobble and bed-
rock)

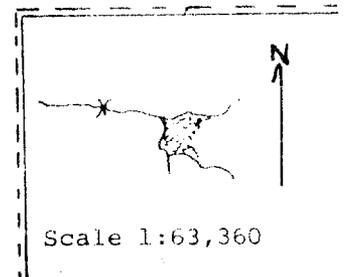
20' wide
4" deep

100% spawning in
this 25 yard area

Picture book area for spawning

10' wide x 6" deep

75% spawning in
this 30 yards of
IT (cobble)



Name _____ Catalog No. 102-10-10
 Latitude N 51° 21' 12" WR No. _____
 Longitude W 132° 05' 56" K No. _____
 Location Dixon Entrance D-1 Work Area Ketchikan
W. Arm Kendrick Bay Watershed Length _____
 Drainage Area of Watershed _____
 Water Supply Type Spring and runoff

PS Lic & Drivey Routes Walk in stream

Aerial Survey Notes Not feasible

Anchorage Good anchorage in Kendrick Islands

Tide Stage When Surveyed Low

FISHERY RESOURCES

Commercial Fisheries No data

Spawning Available spawning area - 588 M²

Species Composition No data

Timing No data

Schooling areas No data

Shellfish Potential ??

Sport Fisheries No data

Land Use at Present Near stream mouth is large landing area to supply mining activities in Kendrick Bay - a road passes close to main stream.

History of Land Use Mining for past 20 years

Rehabilitation Potential None

Soils Stable to point walked

GAME RESOURCES

Bear -----	Fish carcasses or bones (old or fresh) on banks, estimate	0
	Number of droppings	0
Goose -----	Number seen on tide flats	0
	Number seen up creek	0
	Number of broods seen	0
Mallards ---	Number seen on tide flats	0
	Number seen up creek	0
	Number of broods seen	0
Mergansers -	Number of broods seen	0
Pald Eagles-	Number seen along creek	0
	Number of nests seen and location	0
Osprey -----	Number seen at mouth of stream	0
Tide flats -	Estimate length along beach	-
	Estimate depth out from beach	-
	Eel grass present on what percent of flats	0

Name Head West Arm Catalog No. 102-10-16
 Latitude N 54° WR No. 122C
 Longitude W 132° 06' 54" K No. 124
 Locality Map No. Craig D-1 Work Area Ketchikan
 Location Kendrick Bay - W. Arm Watershed Length 1.75 miles
 Drainage Area of Watershed 9 square miles (polar planimeter)
 Water Supply Type Springs and precipitation

Falls & Survey Routes Bokan Mountain road.

Special Survey Notes Intertidal survey are the only portion of the stream visible from the air.

Remarks Good small craft anchorage is found in the West Arm but should be entered during low tide due to foul conditions.

Tide Stage When Surveyed 2nd half of ebb.

FISHERY RESOURCES

Commercial Fisheries Chum, coho and pink

Escapement 100 chum - 1961. 300 fish observed off mouth.

Species Composition 90% chum (estimated)

Timing Late

Schooling areas Pools upstream provide schooling habitats.

300 chum observed off mouth in 1961.

Shellfish Potential Clam beds on intertidal section are the only known shellfish potential.

Sport Fisheries Coho, Dolly Varden and Cutthroat should be found in the stream in limited numbers.

Land Use at Present None

History of Land Use None documented.

Rehabilitation Potential No rehab. needed. Three falls 250 yds. upstream (15' high) block all salmon migrations.

Soils Stable at present time but will present erosion problems if land use practices encouraged.

GAME RESOURCES

Bear -----	Fish carcasses or bones (old or fresh) on banks, estimate	-
	Number of droppings	-
Geese -----	Number seen on tide flats	-
	Number seen up creek	-
	Number of broods seen	-
Mallards ---	Number seen on tide flats	-
	Number seen up creek	-
	Number of broods seen	-
Mergansers -	Number of broods seen	-
Bald Eagles-	Number seen along creek	-
	Number of nests seen and location	-
Seals -----	Number seen at mouth of stream	-
Tide flats -	Estimate length along beach	300'
	Estimate depth out from beach	15'
	Eel grass present on what percent of flats	1-2%

PEAK ESCAPEMENT RECORD

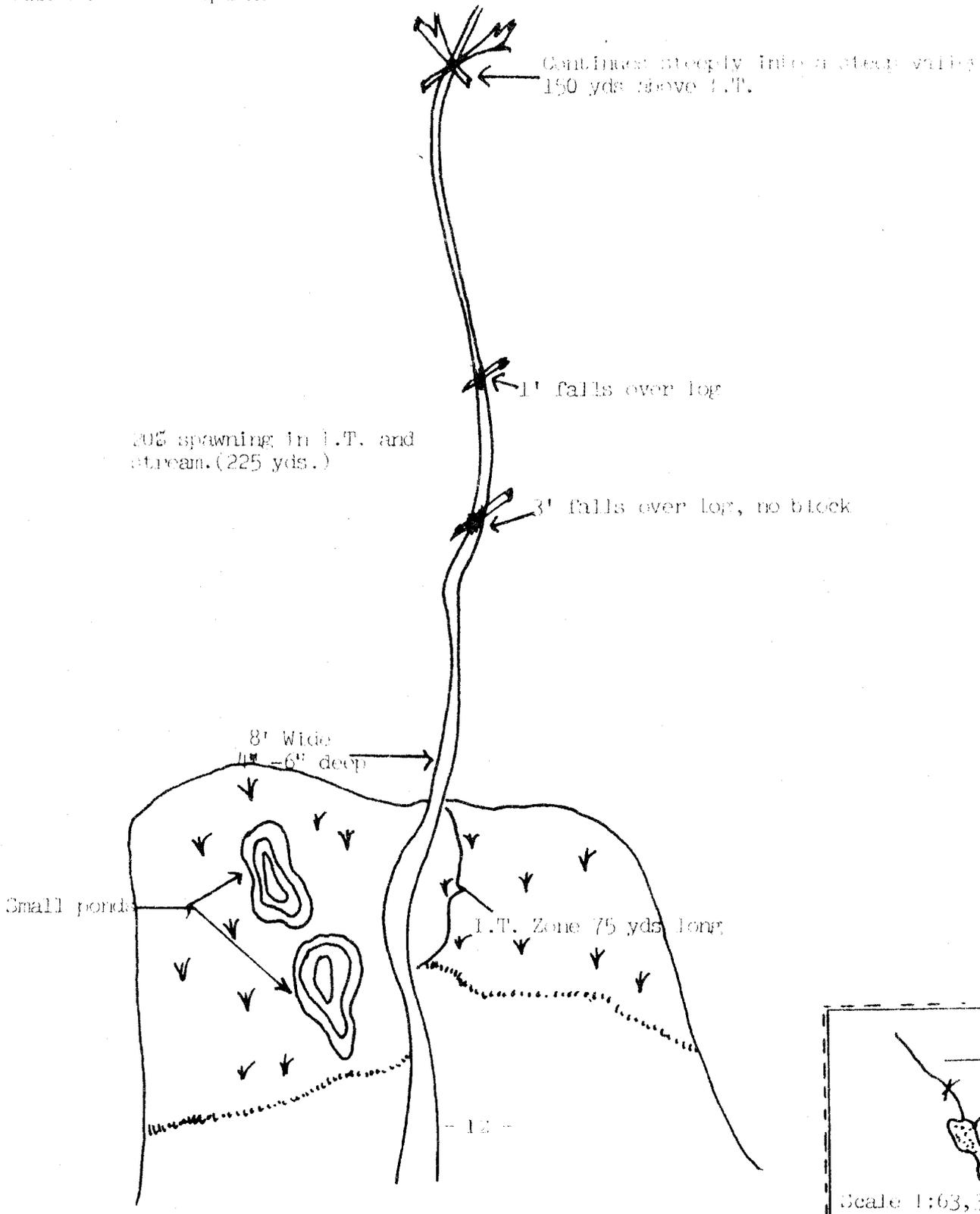
10456
Nendrick Bay, West Arm Head

SEPEAM CATALOG NUMBER: 102-10-16

DATE	PINK	CHUM	OTHER SPECIES	REMARKS
Oct. 5, 1937	1,000			Large escapement for this stream (C)
Sept. 5, 1947				Few fingerling. No adult salmon (C)
Sept. 6, 1962				900 fish off mouth. Vis. poor (A)
Aug. 29, 1963				A few present (A)
Sept. 8, 1964	N.O.			(A)

10-10-20
Head of West Fork
Cedar Creek, Ky.
Downy
6-28-74

Not an excellent stream but it
could have a few spawners



Date _____ Catalog No. 102-10-20
 Latitude 51° 51' 57" W. No. _____
 Longitude 152° 4' 15" K No. K123A
 Scientific Name Dixon Entrance D-1 Work Area Ketchikan
 Location Head of Short Arm in Kendrick Watershed length _____
 Name of Bay of Watershed Bay
 Water Supply Type Spring and runoff

Fish & Survey Routes Follow the stream

Aerial Survey Notes Overstory and small

Anchorage See Coast Pilot and Navigational Charts for Kendrick Bay - there is a good anchorage in the Kendrick Islands

Tide Stage When Surveyed Low

FISHERY RESOURCES

Commercial Fisheries No data - this stream has been checked 3 times, once by FRL, then by Fish and Wildlife, and then Fish & Game - no fish were Escapement Available spawning area - 100 M² see

Species Composition No data

Timing No data

Schooling areas No data

Shellfish Potential None-rocky

Sport Fisheries No data

Land Use at Present None

History of Land Use None

Rehabilitation Potential None

Soils Stable to point walked.

GAME RESOURCES

Beaver	fish encasement or bones (old or fresh) on banks, estimate	0
	Number of droppings	0
Loon	Number seen on tide flats	0
	Number seen up creek	0
	Number of broods seen	0
Ballard	Number seen on tide flats	0
	Number seen up creek	0
	Number of broods seen	0
Redpoll	Number of broods seen	0
Redpoll	Number seen along creek	0
	Number of nests seen and location	0
Osprey	Number seen at mouth of stream	0
Tide flats	Estimate length along beach	-
	Estimate depth of sea beach	-
	Estimate percent of wind swept of flats	?

PEAK ESCAPEMENT RECORD

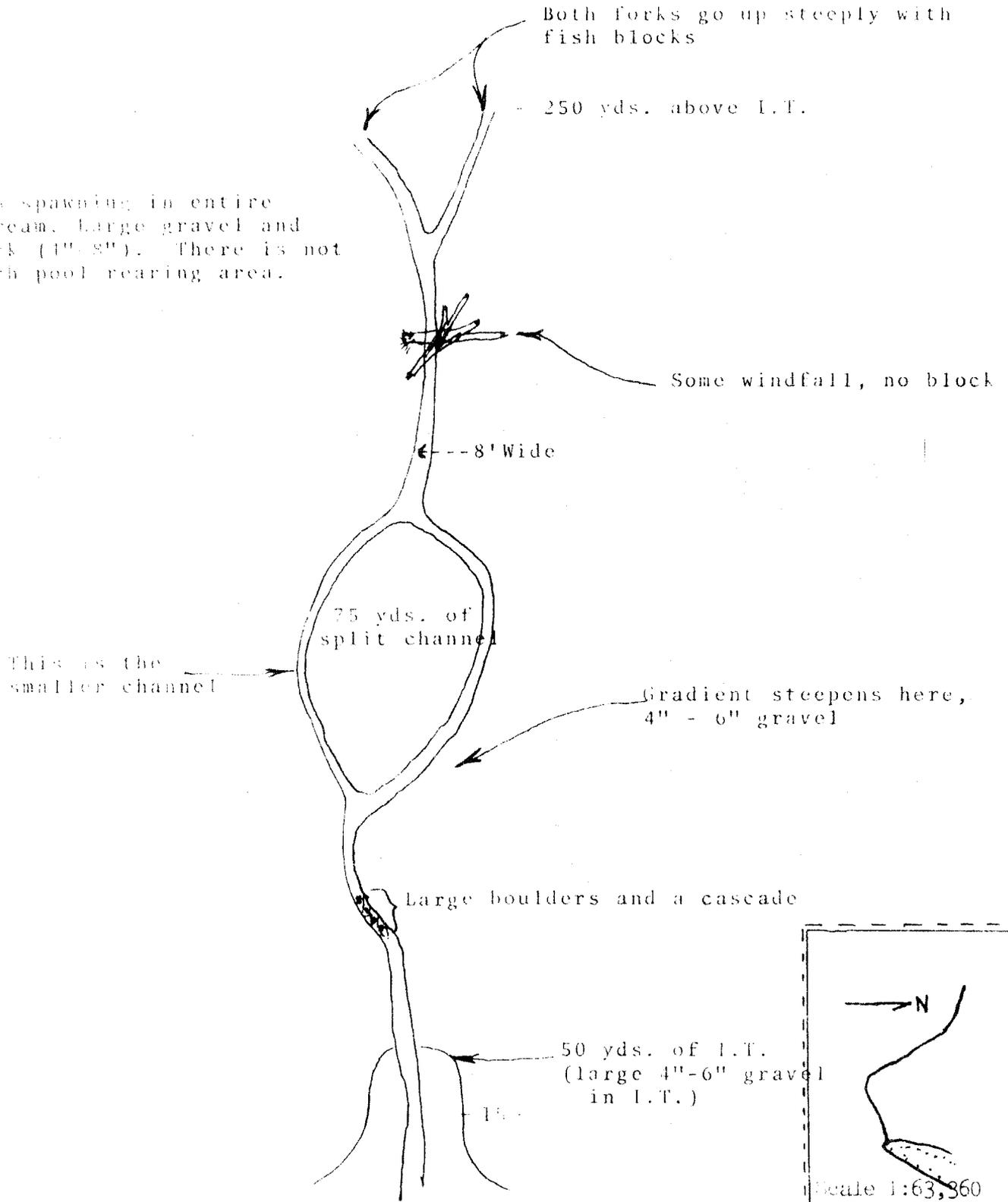
NAME: Kendrick Bay, Short Arm, Head

STREAM CATALOG NUMBER: 102-10-20

DATE	PINK	CHUM	OTHER SPECIES	REMARKS
Sept. 5, 1947				No fish (G)
Aug. 17, 1965				Vis. good. Stream low. (A)
Oct. 8, 1970		62	1 coho	Vis. good. 400 dead chum (F)
Aug. 31, 1972	N.O.			Vis. fair (A)

102-10-23
Head of South Arm
Kendrick Bay
Downey
May 28, 1974

20% spawning in entire stream. Large gravel and rock (1" - 8"). There is not much pool rearing area.



Date _____ Catalog No. 102-10-23
 Latitude 54° 50' 18" WR No. _____
 Longitude 132° 02' 30" K No. 123
 Geologic Map No. _____ Work Area Ketchikan
 Vicinity Head of S. Arm of Kendrick Bay Watershed Length _____
 Drainage Area of Watershed _____
 Water Supply Spring and runoff

Trails & Survey Routes This stream is easy to survey by foot when walking on the stream.

Aerial Survey Notes _____

Anchorage Refer to Coast Pilot and Navigational Charts

Tide Stage When Surveyed Low

FISHERY RESOURCES

Commercial Fisheries The only survey taken in which fish were spotted was Sept. 20, 1961 by air-100 chums in stream and 300 at mouth.
 Escapement Available spawning area - 134 M²

Species Composition Only chums were seen in 1960

Timing Appears to be late

Schooling areas Mouth

Shellfish Potential None - rocky

Sport Fisheries No data

Land Use at Present None

History of Land Use None

Rehabilitation Potential None

Soils Stable to point walked.

GAME RESOURCES

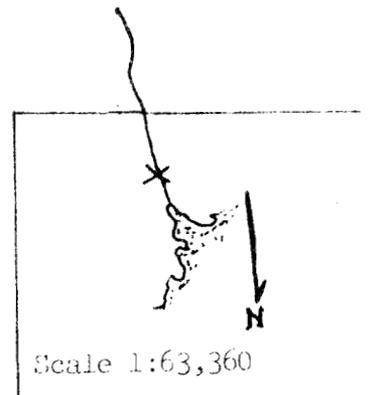
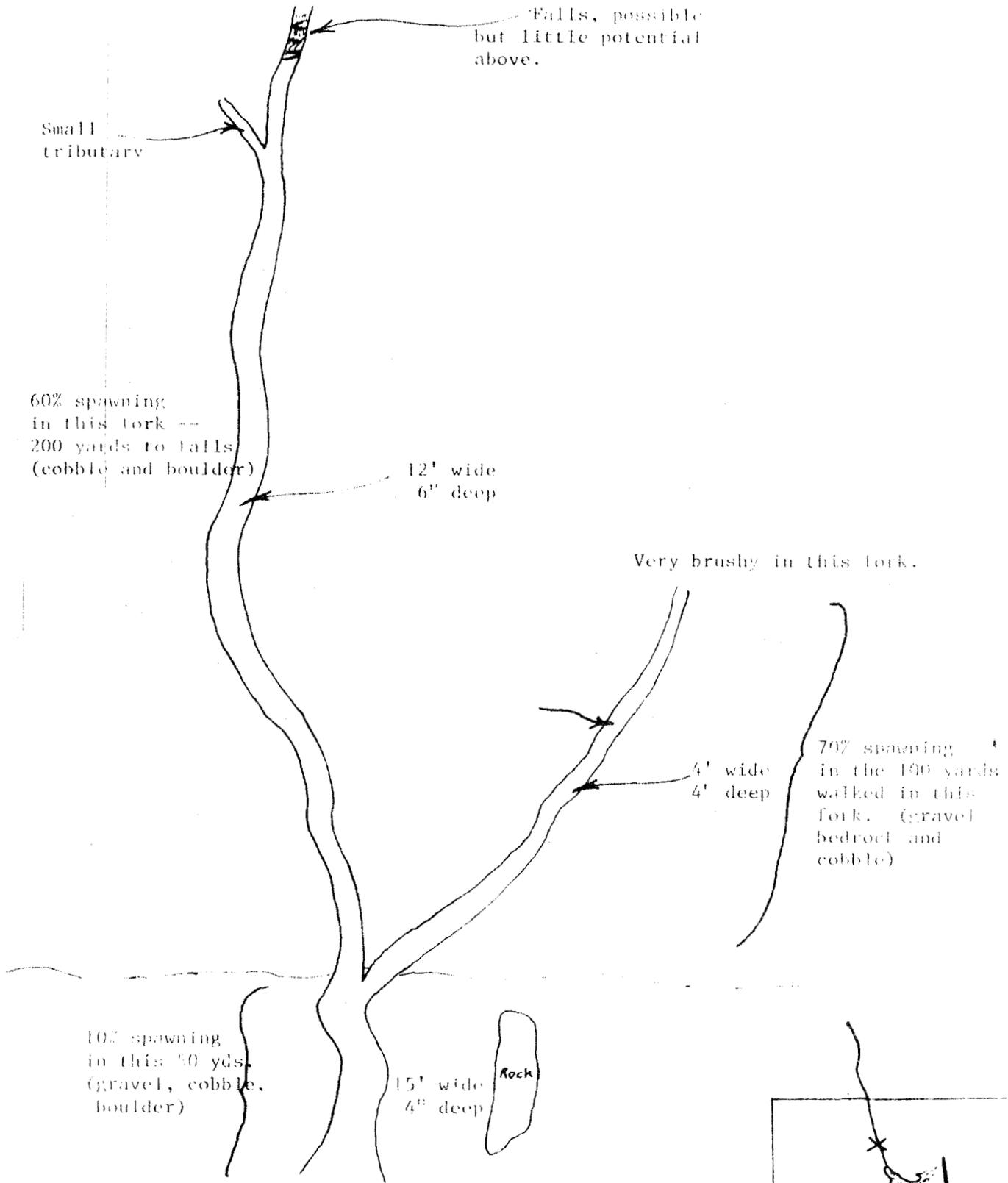
Bear -----	Fish carcasses or bones (old or fresh) on banks, estimate	0
	Number of droppings	0
Geese -----	Number seen on tide flats	0
	Number seen up creek	0
	Number of broods seen	0
Mallards ---	Number seen on tide flats	0
	Number seen up creek	0
	Number of broods seen	0
Mergansers -	Number of broods seen	0
Bald Eagles -	Number seen along creek	0
	Number of nests seen and location	0
Seals -----	Number seen at mouth of stream	0
Tide flats -	Estimate length along beach	-
	Estimate depth out from beach	-
	Red grass present or what percent of flats	-

PEAK ESCAPEMENT RECORD

NAME: Kendrick Bay, South Arm, Head

STREAM CATALOG NUMBER: 102-10-23

DATE	PINK	CHUM	OTHER SPECIES	REMARKS
Sept. 6, 1947				No fish or signs of fish seen(G)
Sept. 20, 1961		100		300 fresh fish at mouth (A)
Aug. 29, 1963	N.O.			(A)
Aug. 17, 1965	N.O.			Vis. good. Stream low (A)



Catalog No. 102-10-27
 WR No. _____
 K No. _____
 Work Area Ketchikan
 Watershed Length _____
 Location Dixon Entrance D-1
 Name of Area of Watershed _____
 Name of any Type Spring and runoff _____

Trails & Survey Routes Walk in stream

Road Survey Water Not feasible, small with a lot of overstory

Anchorage Good anchorage in Kendrick Islands

Tide Stage When Surveyed Low

WILDLIFE RESOURCES

Commercial Fisheries No data

Escapement Available spawning area - 452 M²

Available spawning area - 50 M²

Species Composition Unknown

Timing Unknown

Schooling areas _____

Shellfish Potential None (rocky)

Sport Fisheries Unknown

Land Use at Present None

History of Land Use None

Rehabilitation Potential None

Soils Stable to point walked

GAME RESOURCES

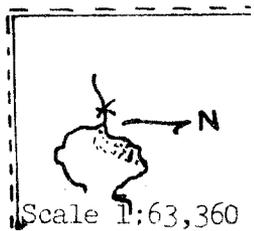
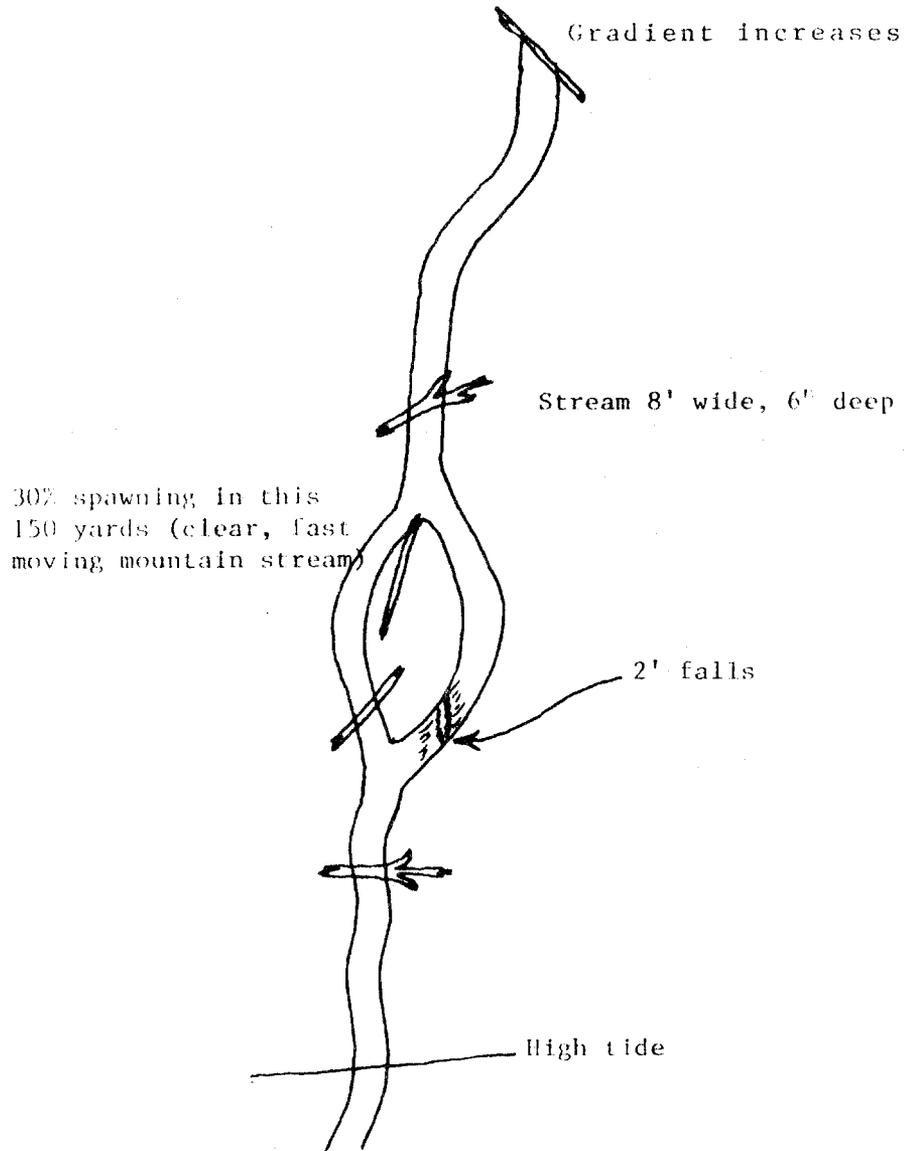
Star	-----	Fish carcasses or bones (old or fresh) on banks, estimate	0
		Number of droppings	0
Goose	-----	Number seen on tide flats	0
		Number seen up creek	0
		Number of broods seen	0
Killdeer	---	Number seen on tide flats	0
		Number seen up creek	0
		Number of broods seen	0
Merganser	-	Number of broods seen	0
Wild Duck	-	Number seen along creek	0
		Number of nests seen and location	0
Snails	-----	Number seen at mouth of stream	0
Tide flats	-	Estimate length along beach	-
		Estimate depth out from beach	-
		Red grass present on what percent of flats	0

PEAK ESCAPEMENT RECORD

NAME: Kendrick Bay, South Arm 1 mile from head

STREAM CATALOG NUMBER: 102-10-27

DATE	PINK	CHUM	OTHER SPECIES	REMARKS
Aug. 26, 1970	N.O.			Vis. poor. Clouds (A)



Catalog No. 102-10-31
 Latitude N 54° 49' 53" WR No. _____
 Longitude W 131° 59' 55" K No. _____
 Magnetic Ship No. Prince Rupert D-6 Work Area Ketchikan
 Location Gardner Bay (head) Watershed Tongue
 Drainage Area of Watershed _____
 Water Supply Type Spring, runoff

Mills & Turvey Routes Walk in stream

Aerial Survey Notes Not feasible

Anchorage See Coast Pilot for anchorage in Gardner Bay

Tide Stage When Surveyed High

FISHERY RESOURCES

Commercial Fisheries No data

Escapement Available spawning area - 117 M²

Species Composition No data

Timing No data

Schooling areas No data

Shellfish Potential None (rocky)

Sport Fisheries No data

Land Use at Present None

History of Land Use None

Rehabilitation Potential None

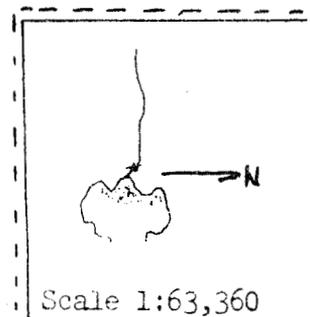
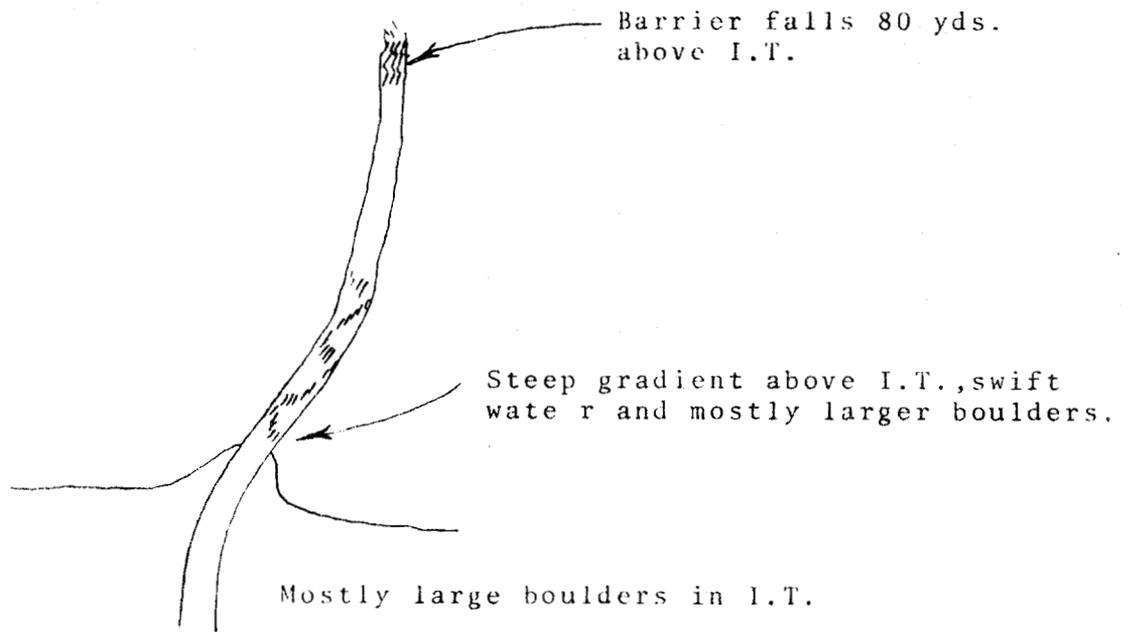
Soils Stable to point walked.

GAME RESOURCES

Deer -----	Fish carcasses or bones (old or fresh) on banks, estimate	0
	Number of droppings	0
Geese -----	Number seen on tide flats	0
	Number seen up creek	0
	Number of broods seen	0
Mallards ---	Number seen on tide flats	0
	Number seen up creek	0
	Number of broods seen	0
Mergansers -	Number of broods seen	0
Bald Eagles-	Number seen along creek	0
	Number of nests seen and location	0
Seals -----	Number seen at mouth of stream	0
Tide Flats -	Estimate length along beach	-
	Estimate depth out from beach	-
	Red grass present on what percent of flats	0

102-10-52
Head of Gardner Bay
Downey
May 27, 1974

This stream has almost 0% fisheries potential.
The gradient is very steep.



Name _____ Catalog No. 102-10-32
 Latitude 54°49'44" WR No. _____
 Longitude 152°00'02" K No. _____
 Geologic Map No. Prince Rupert D-6 Work Area Ketchikan
 Location Head Gardner Bay Watershed Length _____
 Drainage Area of Watershed _____
 Water Supply Type Spring and runoff

Trails & Survey Routes Walk in stream

Aerial Survey Notes No potential

Anchorage See Coast Pilot - good anchorage in front of stream

Tide Stage When Surveyed Flood

FISHERY RESOURCES

Commercial Fisheries No potential

Escapement No potential

Species Composition No data

Timing No data

Schooling areas No data

Shellfish Potential No potential - rocky

Sport Fisheries None

Land Use at Present None

History of Land Use None

Rehabilitation Potential None

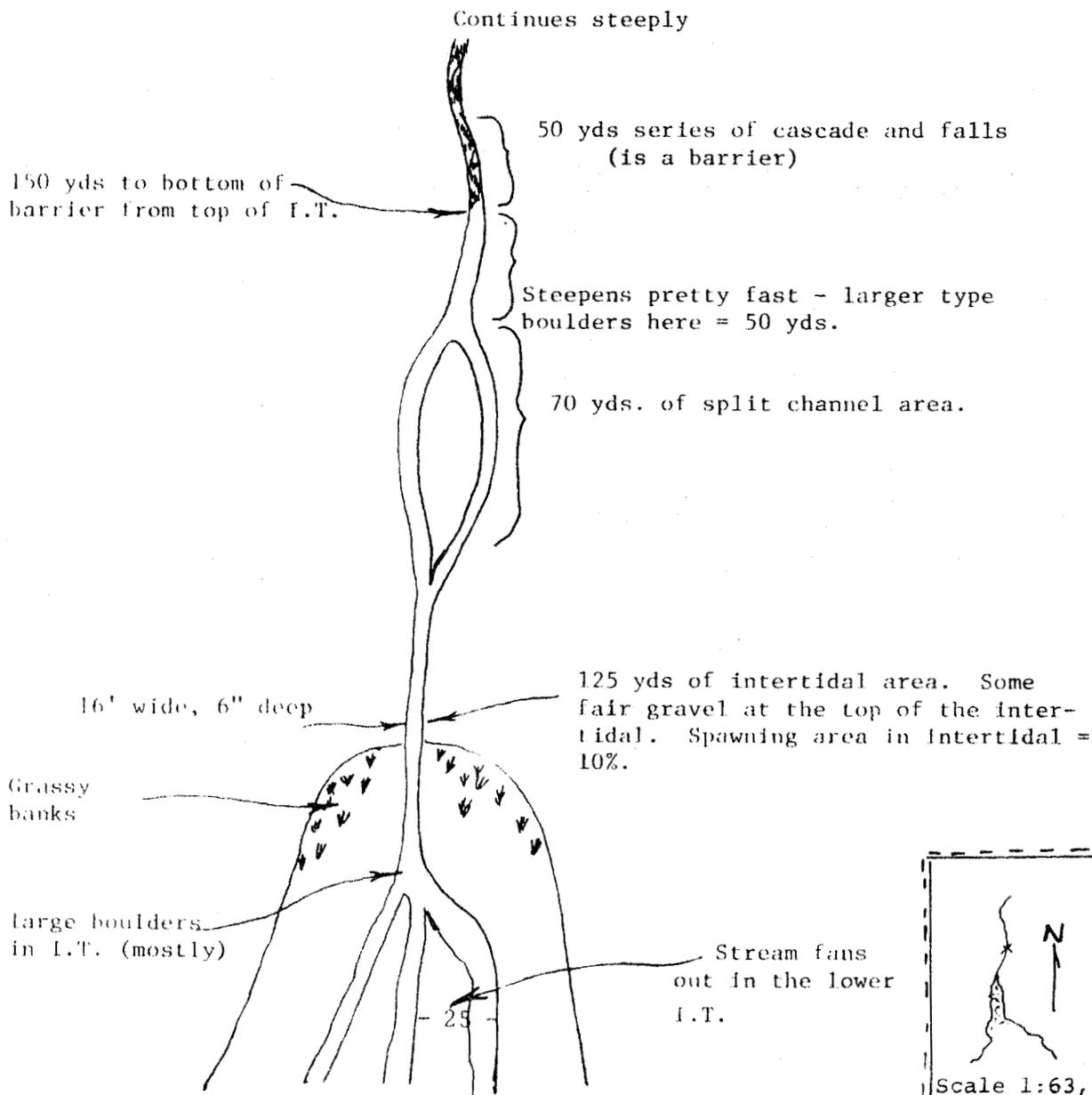
Soils Stable to point walked

GAME RESOURCES

Bear -----	Fish carcasses or bones (old or fresh) on banks, estimate	0
	Number of droppings	0
Geese -----	Number seen on tide flats	0
	Number seen up creek	0
	Number of broods seen	0
Mallards ----	Number seen on tide flats	0
	Number seen up creek	0
	Number of broods seen	0
Mergansers -	Number of broods seen	0
Bald Eagles--	Number seen along creek	0
	Number of nests seen and location	0
Seals -----	Number seen at mouth of stream	0
Tide flats -	Estimate length along beach	-
	Estimate depth cut from beach	-
	Red grass present on what percent of flats	0

McLean Arm - Head N. Arm
102-10-37
Downey
5-27-74

Not too much debris in the stream. 25% spawning area for the entire stream. Walk in the stream. Normal flow.



Catalog No. 102-10-37
 WE No. _____
 E No. 122A
 Work Area Ketchikan
 Watershed Length 1.75 miles
 Location McLean Arm - Head N. Arm
 Precipitation Type Precipitation, springs, lake system.

Pacific A. Turkey Botches Fairly brushy with some debris in the stream - walk mostly in the stream.
 Aerial Turkey Botches Too small to aerial survey above the I.T.Z.

Access At the head of McLean Arm or preferably in Gardner Bay. See navigation chart #8145 and refer to the Coast Pilot.

Tide Stage When Surveyed About high tide.

FISHERY RESOURCES

Commercial Fisheries Pink

Escapement 1,000 pinks on 9-20-30 Available spawning area (Upper) - 167 M²

Available spawning area (ITZ) - 56 M²

Species Composition 100% pinks.

Timing Late

Schooling areas Off the mouth

Shellfish Potential Fairly rocky - could be some potential in the extreme lower I.T.Z. but don't believe this would amount to too much

Sport Fisheries None - too small

Land Use at Present None

History of Land Use None

Rehabilitation Potential None - too small

Soils Stable to the point where I stopped walking.

GAME RESOURCES

Bear -----	Fish carcasses or bones (old or fresh) on banks, estimate	0
	Number of droppings	0
Geese -----	Number seen on tide flats	0
	Number seen up creek	0
	Number of broods seen	0
Mallards ---	Number seen on tide flats	0
	Number seen up creek	0
	Number of broods seen	0
Wings -----	Number of broods seen	0
Pink Pheasants	Number seen on creek	0
	Number of nests seen and location	0
Snails -----	Number seen at mouth of stream	0
Tadpoles ---	Estimate length along length	
	Estimated depth out from length	
	Red gurn present on what percent of flats	

PEAK ESCAPEMENT RECORD

NAME: McLean Arm, Head of N. arm

STREAM CATALOG NUMBER: 102-10-37

DATE	PINK	CHUM	OTHER SPECIES	REMARKS
Sept. 20, 1930	1,600			1,500 fish off mouth (G)
Aug. 29, 1947				No fish or carcasses seen (G)
Aug. 27, 1969	N.O.			(F)

Scale 1:63,360

N

Head McLean Arm
102-10-39
Downey
5-27-74

Stopped here - 400
yds. above the top of the
I.T.Z.

continues steeply

Falls
over log-
no block

12' wide and 8" deep
Also large gravel
here = 8"

Split channel area again - this
channel does return to the main
stream above.

1 unidentified and
2 coho fry.

Just saw this channel - may be the one
that comes out in the I.T.

This stream has some good
small pool and side areas
for rearing coho.

Banks brushy, walk in the
stream, moderate debris
in the stream also, so
is a little difficult
walking.

Braided here again for 30 yards.

8' wide and 4" deep

Stream at normal flow.

One channel here and larger gravel = 6'

Overall stream spawning
area = 50%

Split channel area: Looks like some
high flows have occurred here with
piles of gravel and some channel
changes

14 coho fry seen in this side pool.

Some debris -
no block

50 yards of split channel area.
Good gravel 4" - 6".

Top of I.T., 200 yds with
95% spawning area.
Good gravel 2"-4"

12' wide, 4" deep

Larger size tide flats.

This tributary connects with the main
stream somewhere.

GRASS

GRASS

Name Head McLean Arm Catalog No. 102-10-39
 Latitude 54°48'58" WR No. _____
 Longitude 152°05'03" K No. _____
 Geographic Map No. Dixon Entrance D-1 Work Area Ketchikan
 Location Head McLean Arm Watershed Length 1 5/8 miles
 Drainage Area of Watershed _____
 Water Supply Type Precipitation, springs

Trails & Survey Routes Banks are brushy-walk in the stream

Aerial Survey Notes Too small to survey above the ITZ zone

Anchorages At the head of McLean Arm or preferably in Garner Bay. See Navigation Chart #8145 and refer to the Coast Pilot.

Tide Stage When Surveyed 1/4 in and flooding

FISHERY RESOURCES

Commercial Fisheries Unknown

Escapement Surveyed by Jim Barry on 8/31/72 with no fish observed

Available spawning area (1st area) - 669 M²; Available spawning area (ITZ) - 636 M²

Species Composition Unknown

Timing Unknown

Schooling areas Would be off the mouth

Shellfish Potential There could be some shellfish potential here as this is a larger type flats with more mud and grass on it.

Sport Fisheries None-too small

Land Use at Present None

History of Land Use Can't remember for sure-believe some of this has been logged.

Rehabilitation Potential None-too small and fish now have access to all they can use.

Soils Soils and stream banks are stable to the point where I stopped walking.

GAME RESOURCES

Bear -----	Fish carcasses or bones (old or fresh) on banks, estimate	_____
	Number of droppings	_____
Geese -----	Number seen on tide flats	_____
	Number seen up creek	_____
	Number of broods seen	_____
Mallards ---	Number seen on tide flats	_____
	Number seen up creek	_____
	Number of broods seen	_____
Mergansers -	Number of broods seen	_____
Bald Eagles-	Number seen along creek	_____
	Number of nests seen and location	_____
Seals -----	Number seen at mouth of stream	_____
Tide flats -	Estimate length along beach	_____
	Estimate depth out from beach	_____
	Est. grass present on what percent of flats	_____

PEAK ESCAPEMENT RECORD

NAME: McClean Arm, head

STREAM CATALOG NUMBER: 102-10-39

DATE	PINK	CHUM	OTHER SPECIES	REMARKS
Aug. 27, 1969	N.O.			(F)
Aug. 26, 1970	N.O.			Vis. poor (A)
Aug. 31, 1972	N.O.			Vis. fair (A)

South Shore McLean Arm
102-10-41
Elton
5-29-74

Boulders and bedrock the whole way.

10% spawning in
this 75 yards (boulders
and bedrock)

10% spawning in this
100 yards (boulders,
bedrock)

10% spawning (boulders
and bedrock) in ITZ
150 yards

7' falls-questionable
barrier

40' wide
12" deep

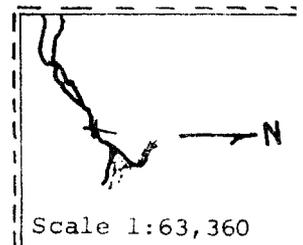
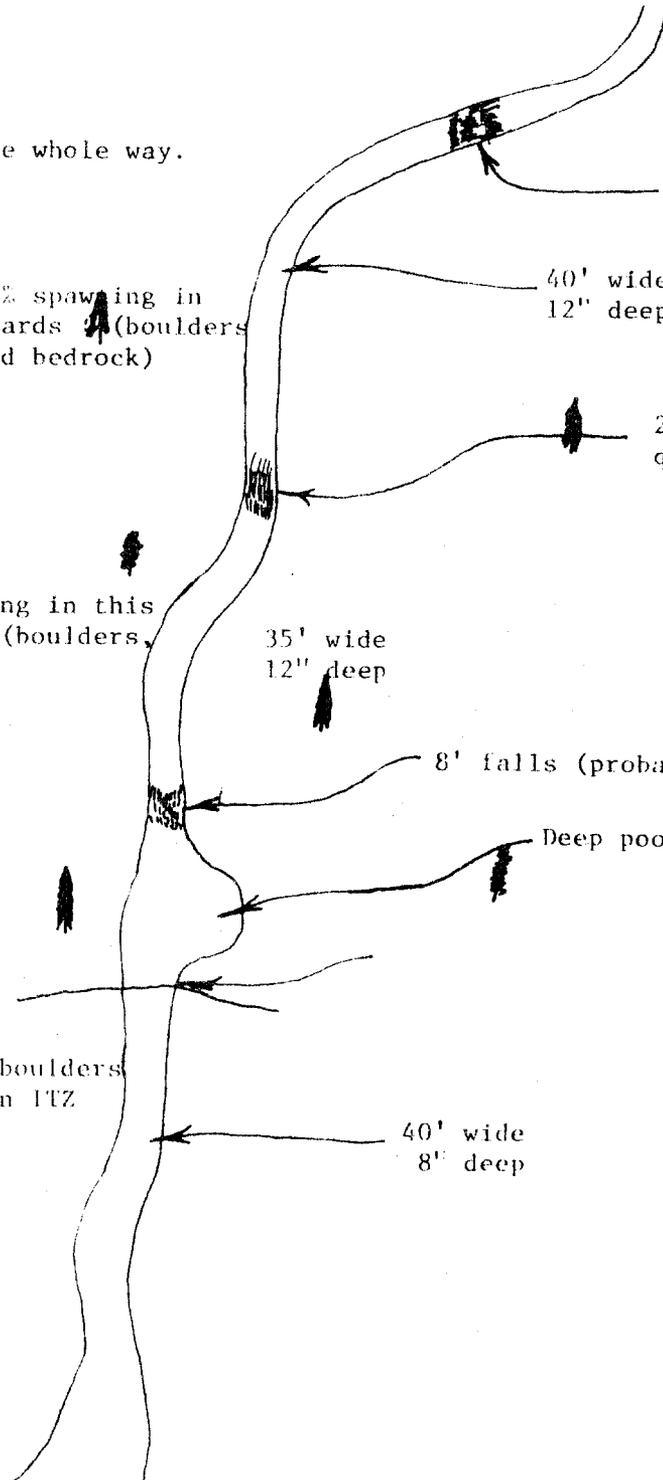
20' cascading falls,
questionable barrier.

35' wide
12" deep

8' falls (probably not a barrier)

Deep pool

40' wide
8" deep



Name South Shore McLean Arm Catalog No. 102-10-41
 Latitude 54° 48' 40" WR No. -
 Longitude 132° 4' 40" K No. K121
 Project Dixon Entrance - D-1 Work Area Ketchikan
 Location McLean Arm (S. Shore) Watershed Length
 Drainage Area of Watershed
 Water Supply Type Drains a lake.

Field & Survey Route Difficult to walk - walk in stream and come out on banks only when necessary.

Special Survey Notes

Anchorage See Coast Pilot for anchorage in McLean Arm by Gardner Bay.

Tide Stage When Surveyed Low

FISHERY RESOURCES

Commercial Fisheries No data - the only survey recorded was a F.R.I. survey in 1947 with no fish observed.

Escapement Available spawning area - 362 M²

Species Composition No data

Timing No data

Schooling areas No data

Shellfish Potential None - rocky

Sport Fisheries No data

Land Use at Present None

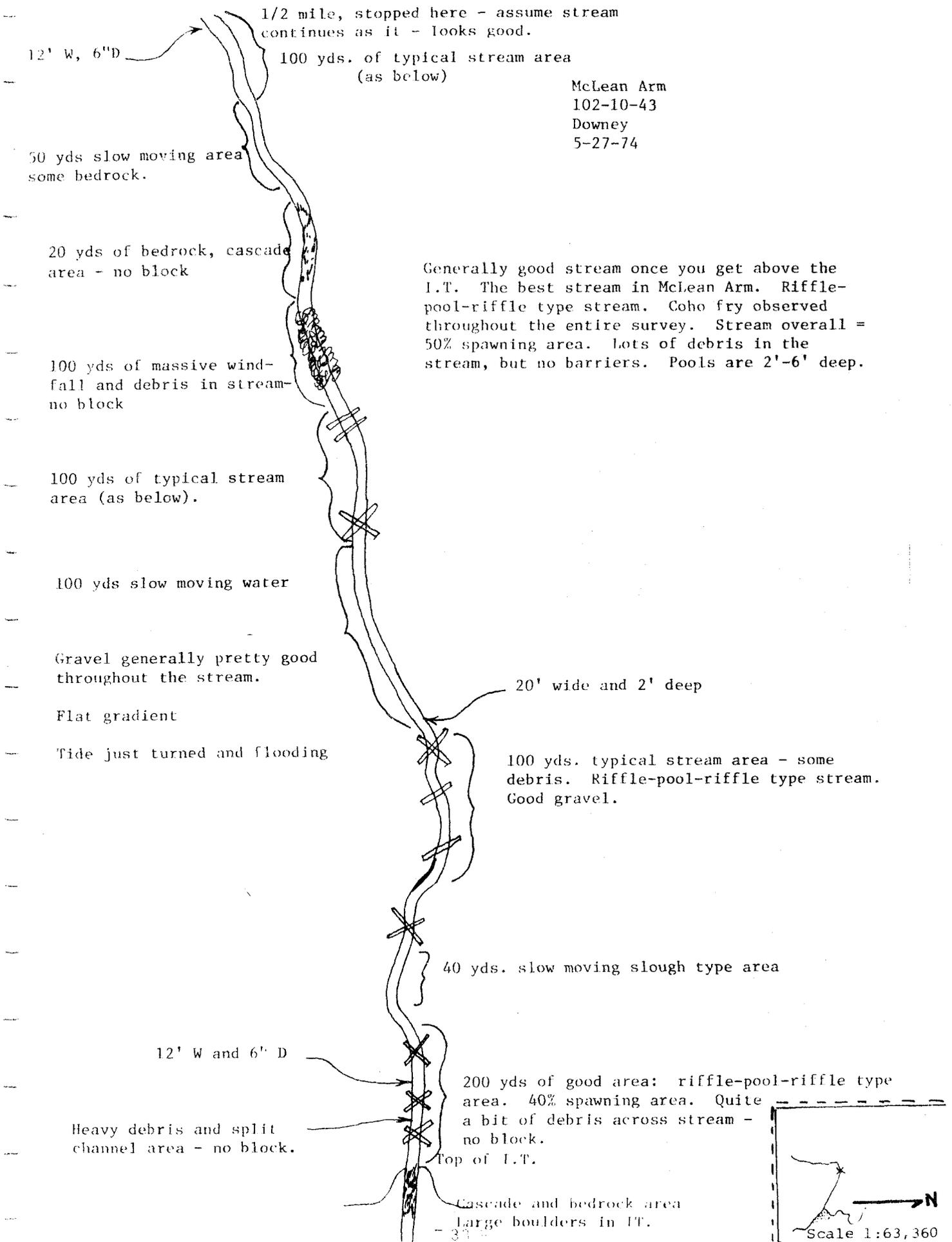
History of Land Use None

Rehabilitation Potential None

Soils No soil, just rock

GAME RESOURCES

Beaver -----	Fish carcasses or bones (old or fresh) on banks, estimate	0
	Number of droppings	0
Geese -----	Number seen on tide flats	0
	Number seen up creek	0
	Number of broods seen	0
Mallards ----	Number seen on tide flats	0
	Number seen up creek	0
	Number of broods seen	0
Mergansers -	Number of broods seen	0
Wild Birds -	Number seen along creek	0
	Number of nests seen and location	0
Osprey -----	Number seen at mouth of stream	0
Tide flats -	Estimate length along beach	-
	Estimate depth out from beach	-
	Red grass present on what percent of flats	0



Name _____ Catalog No. 102-10-43
 Latitude N 54° 48' 07" WR No. _____
 Longitude W 132° 03' 27" K No. 121
 Geodetic T.P. No. Dixon Ent. D-1 Work Area Ketchikan
 Location McLean Arm Watershed Length 1.75 miles
 Drainage Area of Watershed _____
 Water Supply Type Precipitation, springs.

Trails & Survey Routes No trails, walk up the stream.

Aerial Survey Notes Would be impossible to aerial survey above the I.T.Z., due to size and overstory.

Anchorage At the head of McLean Arm or preferable in Gardner Bay - see navigation chart #8145 and refer to Coast Pilot

Tide Stage When Surveyed Just turned and flooding.

FISHERY RESOURCES

Commercial Fisheries Unknown

Escapement Unknown

Available spawning area - 2,943 M²

Species Composition Unknown

Timing Unknown

Schooling areas Would be off the mouth and pool area within the stream.

Shellfish Potential Fairly rocky - could be some potential in the extreme lower I.T. area - not much flats really.

Sport Fisheries Too small - except for some coho or possibly a few steelhead.

Land Use at Present None

History of Land Use None

Rehabilitation Potential None needed - fish now have access to about what they could use anyway.

Soils Stable to the point where I stopped - flat gradient.

GAME RESOURCES

Bear -----	Fish carcasses or bones (old or fresh) on banks, estimate	0
	Number of droppings	0
Geese -----	Number seen on tide flats	0
	Number seen up creek	0
	Number of broods seen	0
Mallards ---	Number seen on tide flats	0
	Number seen up creek	0
	Number of broods seen	0
Mergansers -	Number of broods seen	0
Bald Eagles -	Number seen along creek	0
	Number of nests seen and location	0
Seals -----	Number seen at mouth of stream	0
Tide flats -	Estimate length along reach	
	Estimate depth out from reach	
	B-d grass present on what percent of flats	

PEAK ESCAPEMENT RECORD

NAME: McLean Arm, S. shore 2 miles from head of N.W. arm

STREAM CATALOG NUMBER: 102-10-43

DATE	PINK	CHUM	OTHER SPECIES	REMARKS
Aug. 28, 1947				No fish seen (G)
Aug. 29, 1963				200 fish present off the mouth of the stream (A)
Sept. 8, 1964	N.O.			Good vis.

Above the beaver dam the stream is slow and silty, it drains a large meadow filled with trees killed by backed up water from the beaver dam.

South Shore, McLean Arm
102-10-44
Elton
5-27-74

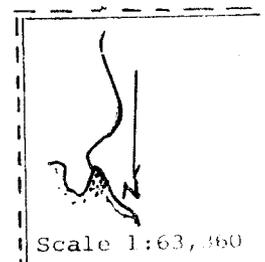
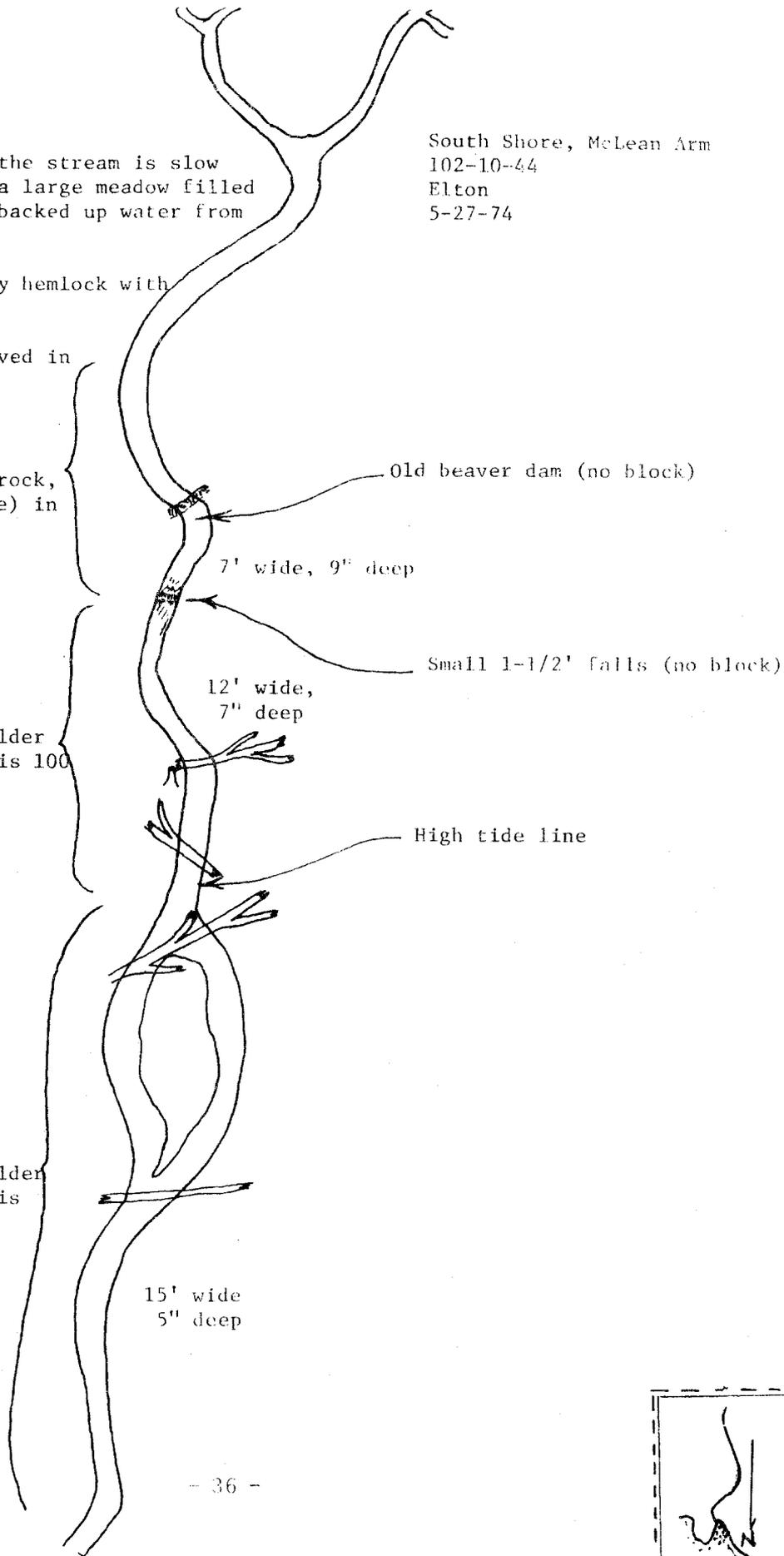
Banks of stream mostly hemlock with some cedar.

2 coho fry were observed in the stream.

40% spawning (bedrock, boulder and cobble) in this 75 yards.

35% spawning (boulder and cobble) in this 100 yards.

25% spawning (boulder and cobble) in this 100 yards.



Scale 1:63,360

Catalog No. 102-10-44
 WP No. _____
 K No. _____
 Work Area Ketchikan
 Watershed Length _____
 Latitude N 54° 47' 55"
 Longitude W 132° 03' 08"
 Project No. Dixon Entrance D-1
 Location S. Shore McLean Arm
 Drainage Area of Watershed _____
 Water Supply Type Muskeg

Trails & Survey Routes Good walking in the stream.

Aerial Survey Notes Heavy overstory and moss in stream - not feasible.

Anchorage Anchorage in McLean Arm or Gardner Bay (see Coast Pilot)

Tide Stage When Surveyed low

FISHERY RESOURCES

Commercial Fisheries No data available but 2 coho fry observed.

Escapement Available spawning area (1st area) - 174 M²

Available spawning area (ITZ) - 105 M²

Species Composition No data available.

Timing No data

Schooling areas No data

Shellfish Potential None - too rocky

Sport Fisheries No data

Land Use at Present None

History of Land Use None

Rehabilitation Potential None

Soils Stable

GAME RESOURCES

Bear -----	Fish carcasses or bones (old or fresh) on banks, estimate	0
	Number of droppings	0
Geese -----	Number seen on tide flats	0
	Number seen up creek	0
	Number of broods seen	0
Hallards ---	Number seen on tide flats	0
	Number seen up creek	0
	Number of broods seen	0
Mergansers -	Number of broods seen	0
Fald Eagles-	Number seen along creek	0
	Number of nests seen and location	0
Osprey -----	Number seen at mouth of stream	0
Tide Flats -	Estimate length along beach	-
	Estimate depth out from beach	-
	Vol grass present on what percent of flats	0

PEAK ESCAPEMENT RECORD

NAME: McLean Arm, S. shore 2.5 miles from head of N.W. arm

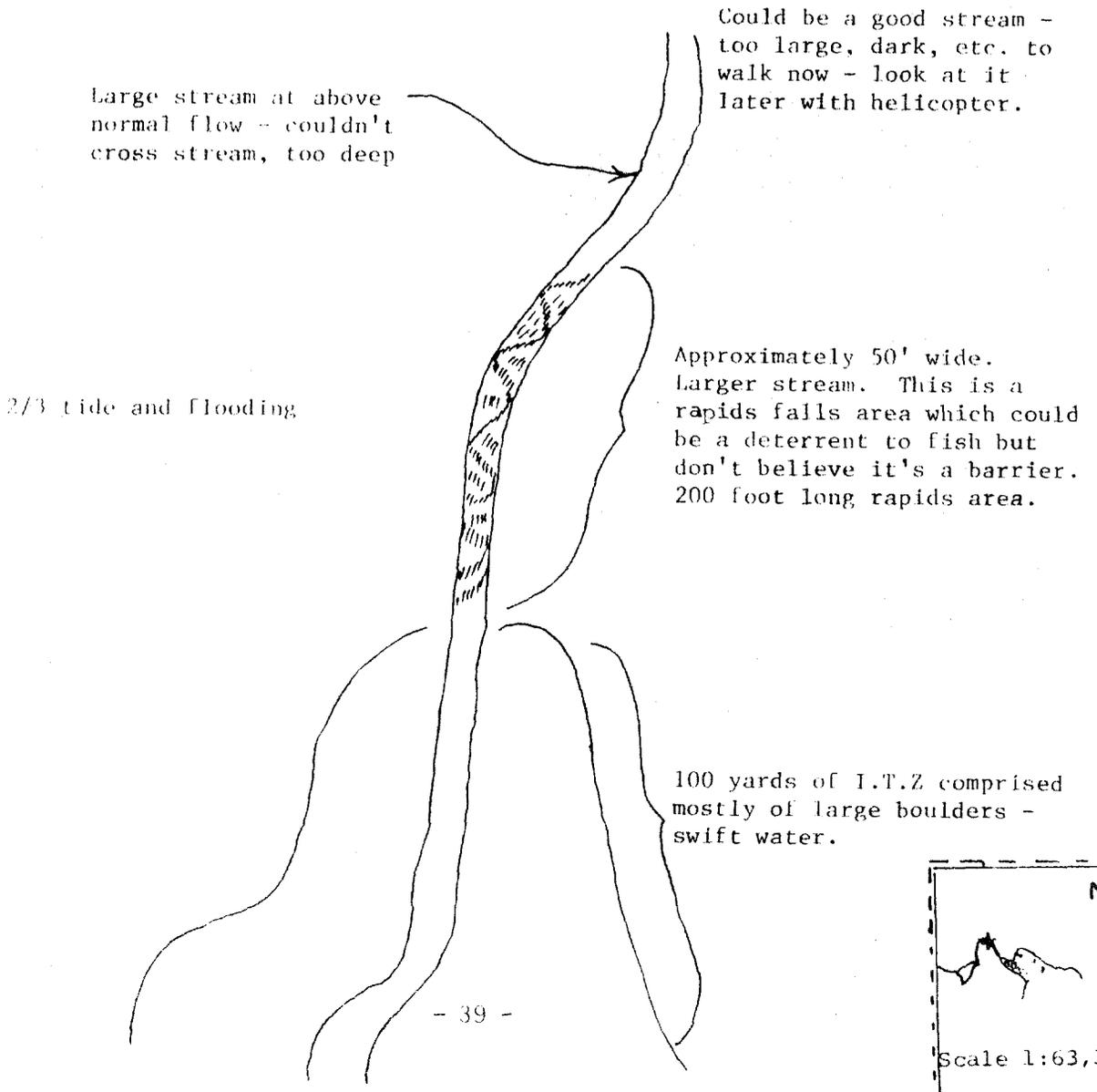
STREAM CATALOG NUMBER: 102-10-44

DATE	PINK	CHUM	OTHER SPECIES	REMARKS
Aug. 28, 1947				No fish. Stream high and discolored (G)
Aug. 29, 1963				300 fish present off the mouth of the stream (A)
Sept. 8, 1964				Two chum jumps. (A)

Stone Rock Bay
102-10-48
Downey
5-26-74

The upstream area was surveyed by helicopter. Fish migrations are hampered by a barrier located approximately one mile above the mouth.

The south lake head stream is the only potential producer above the barrier, this stream flows from section Nos. 14 and 10. It is 8 feet wide, braided dark muskey colored waters and has spruce hemlock timber bordering the banks.



Catalog No. 102-10-48
 N. 54° 46' 08"
 W. 132° 00' 48"
 Dixon Ent. D-1
 Stone Rock Bay
 Drainage area of Watershed 6.3 sq. miles (polar planimeter)
 Water Supply Type Precipitation, springs, lake systems
 Work Area Ketchikan
 Watershed 5 miles

Trails & Survey Routes Walked to just above the falls, will finish later via helicopter.
 Aerial Survey Notes Looks like it has darker water and probably impossible to survey from the air.
 Laboratory Small craft anchor close to shore, but use of this bay for anything but temporary anchorage is not recommended. Run to McLean Arm or Gardner Bay.
 Tide Stage When Surveyed 2/3 tide and flooding.

FISHERY RESOURCES

Commercial Fisheries Unknown - apparently never surveyed.

Escapement Unknown - apparently never surveyed.

Available spawning area - 3,716 M²

Species Composition Unknown

Timing Unknown

Schooling areas Would be off the mouth or pools within the stream.

Shellfish Potential I.T. appears to be pretty rocky - probably very little potential.

Sport Fisheries Unknown but this is a larger stream and could definitely have some potential.

Land Use at Present None

History of Land Use None

Rehabilitation Potential Falls would have to be checked out - it may be a deterrent but don't believe it's a total barrier.

Soils Haven't surveyed it yet - "probably" has flat gradient and stable soils (from the lake system).

GAME RESOURCES

Bear -----	Fish carcasses or bones (old or fresh) on banks, estimate	0
	Number of droppings	0
Geese -----	Number seen on tide flats	0
	Number seen up creek	0
	Number of broods seen	0
Mallards ---	Number seen on tide flats	0
	Number seen up creek	0
	Number of broods seen	0
Loons -----	Number of broods seen	0
Bald Eagles -	Number seen along creek	0
	Number of nests seen and location	0
Beak -----	Number seen at mouth of stream	0
Tide Flats -	Estimate length along beach	
	Estimate depth out from beach	
	Red grass present on what percent of flats	

Stone Rock Bay
 102-10-51
 Downey
 5-26-74

Probably very little access or utilization above this point very spread out. Lots of debris, windfall and brush. Smaller channels here = 2' wide, 6" deep.

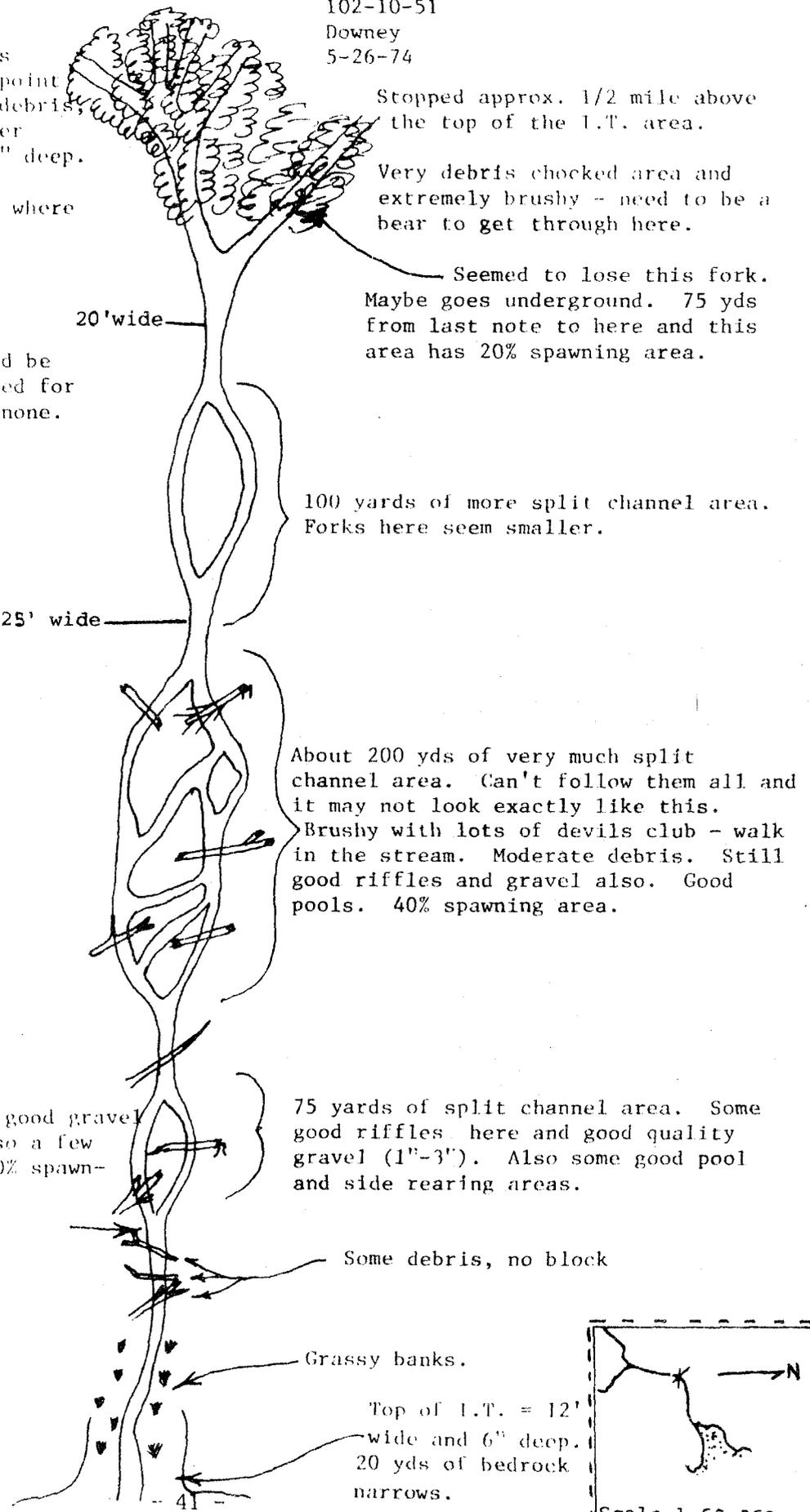
Flat gradient to the point where I stopped.

Very nice stream and should be surveyed for salmon. Looked for coho fry in pools but saw none.

Water above normal flow.

1/2 tide and flooding.

150 yards above I.T. very good gravel in this area (2"-4"). Also a few good small pool areas. 80% spawning area here.



Stopped approx. 1/2 mile above the top of the I.T. area.

Very debris chocked area and extremely brushy - need to be a bear to get through here.

Seemed to lose this fork. Maybe goes underground. 75 yds from last note to here and this area has 20% spawning area.

100 yards of more split channel area. Forks here seem smaller.

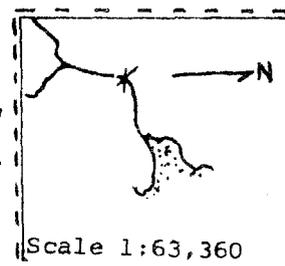
About 200 yds of very much split channel area. Can't follow them all and it may not look exactly like this. Brushy with lots of devils club - walk in the stream. Moderate debris. Still good riffles and gravel also. Good pools. 40% spawning area.

75 yards of split channel area. Some good riffles here and good quality gravel (1"-3"). Also some good pool and side rearing areas.

Some debris, no block

Grassy banks.

Top of I.T. = 12' wide and 6" deep. 20 yds of bedrock narrows.



Date of Survey 102-10-61
 Locality N 54° 45' 34"
 W 132° 01' 00"
 Dixon Ent. D-1
 Stone Rock Bay
 Work Area Ketchikan
 Watershed Length Approx. 1 mile
 Water Supply Type Precipitation, springs.

Access & Survey Routes No trails and difficult walking due to brushy banks and debris in the stream -- walk in the stream.

Special Survey Notes Would be impossible to survey except for I.T. area. Too small with overstory otherwise.

Anchorage Small craft anchor close to shore, but use of this bay for anything but temporary anchorage is not recommended - run to McLean Arm or Garner Bay.

Tide Stage When Surveyed 1/2 tide and flooding.

FISHERY RESOURCES

Commercial Fisheries None reported.

Escapement None reported.

Available spawning area - 1,829 M²

Species Composition Unknown

Timing Unknown

Schooling areas Would be off the mouth and in pool areas within the stream.

Shellfish Potential Very poor - rocky intertidal zone

Sport Fisheries Probably none - no large pools and not that big a stream.

Land Use at Present None

History of Land Use None

Rehabilitation Potential None - too small for much consideration.

Soils Gradient flat and the soils were stable to the point walked.

GAME RESOURCES

Bear -----	Fish carcasses or bones (old or fresh) on banks, estimate	0
	Number of droppings	0
Geese -----	Number seen on tide flats	0
	Number seen up creek	0
	Number of broods seen	0
Mallards ---	Number seen on tide flats	0
	Number seen up creek	0
	Number of broods seen	0
Bergansers -	Number of broods seen	0
Hald Eagles-	Number seen along creek	0
	Number of nests seen and location	0
Seals -----	Number seen at mouth of stream	0
Tide Flats -	Estimate length along beach	
	Estimate width out from beach	
	Est. grass present on what percent of flats	

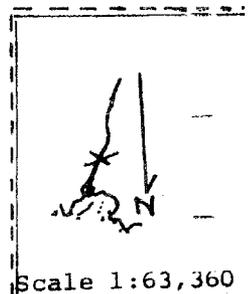
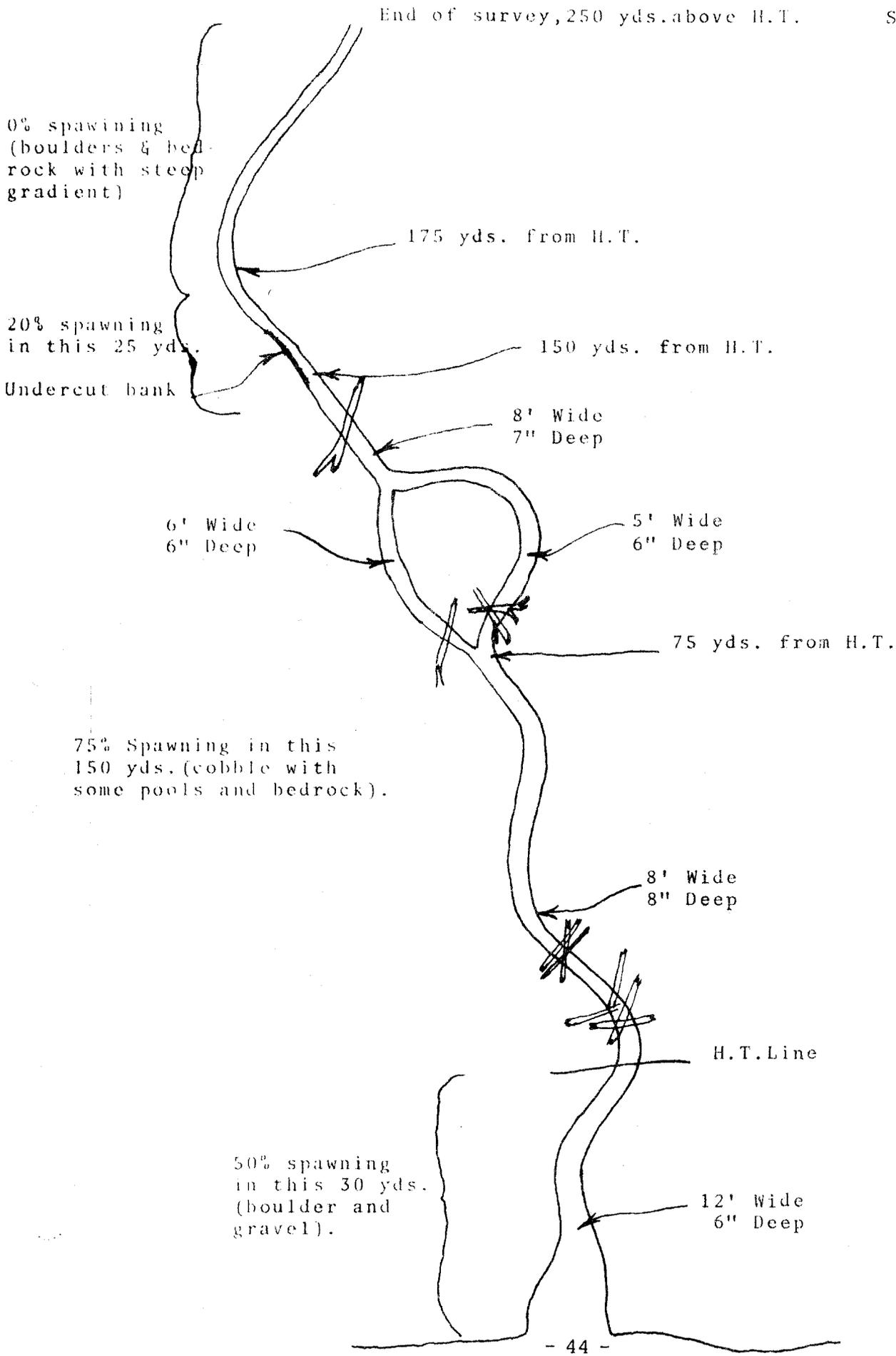
PEAK ESCAPEMENT RECORD

NAME: Stone Rock Bay, S. tip of bay

STREAM CATALOG NUMBER: 102-10-51

DATE	PINK	CHUM	OTHER SPECIES	REMARKS
Sept. 20, 1930				2,000 chum, pink in stream (G)
Sept. 8, 1964				300 pinks at mouth. Vis good(A) Fair stream

S. Side Stone
Rock Bay
102-10-52
5/26/74
Elton



Name _____ Catalog No. 102-10-52
 Latitude 54°45'5" WR No. _____
 Longitude 152°00'15" K No. _____
 Aeronetic Map No. Dixon Entrance D-1 Work Area Ketchikan
 Location S. Side Stone Rock Bay Watershed Length _____
 Drainage Area of Watershed _____
 Water Supply Type Runoff and spring

Trails & Survey Routes Walk in stream

Aerial Survey Notes Not feasible to survey by air.

Anchorage See Coast Pilot

Tide Stage When Surveyed Flood

FISHERY RESOURCES

Commercial Fisheries No data

Escapement Available spawning area - 234 M²

Species Composition No data

Timing No data

Schooling areas No data

Shellfish Potential ?

Sport Fisheries No data

Land Use at Present None

History of Land Use None

Rehabilitation Potential None

Soils Several undercut banks but otherwise stable to point walked.

GAME RESOURCES

Bear -----	Fish carcasses or bones (old or fresh) on banks, estimate	0
	Number of droppings	0
Geese -----	Number seen on tide flats	0
	Number seen up creek	0
	Number of broods seen	0
Mallards ---	Number seen on tide flats	0
	Number seen up creek	0
	Number of broods seen	0
Mergansers -	Number of broods seen	0
Bald Eagles-	Number seen along creek	0
	Number of nests seen and location	0
Seals -----	Number seen at mouth of stream	0
Tide flats -	Estimate length along beach	-
	Estimate depth out from beach	-
	Red grass present on what percent of flats	0

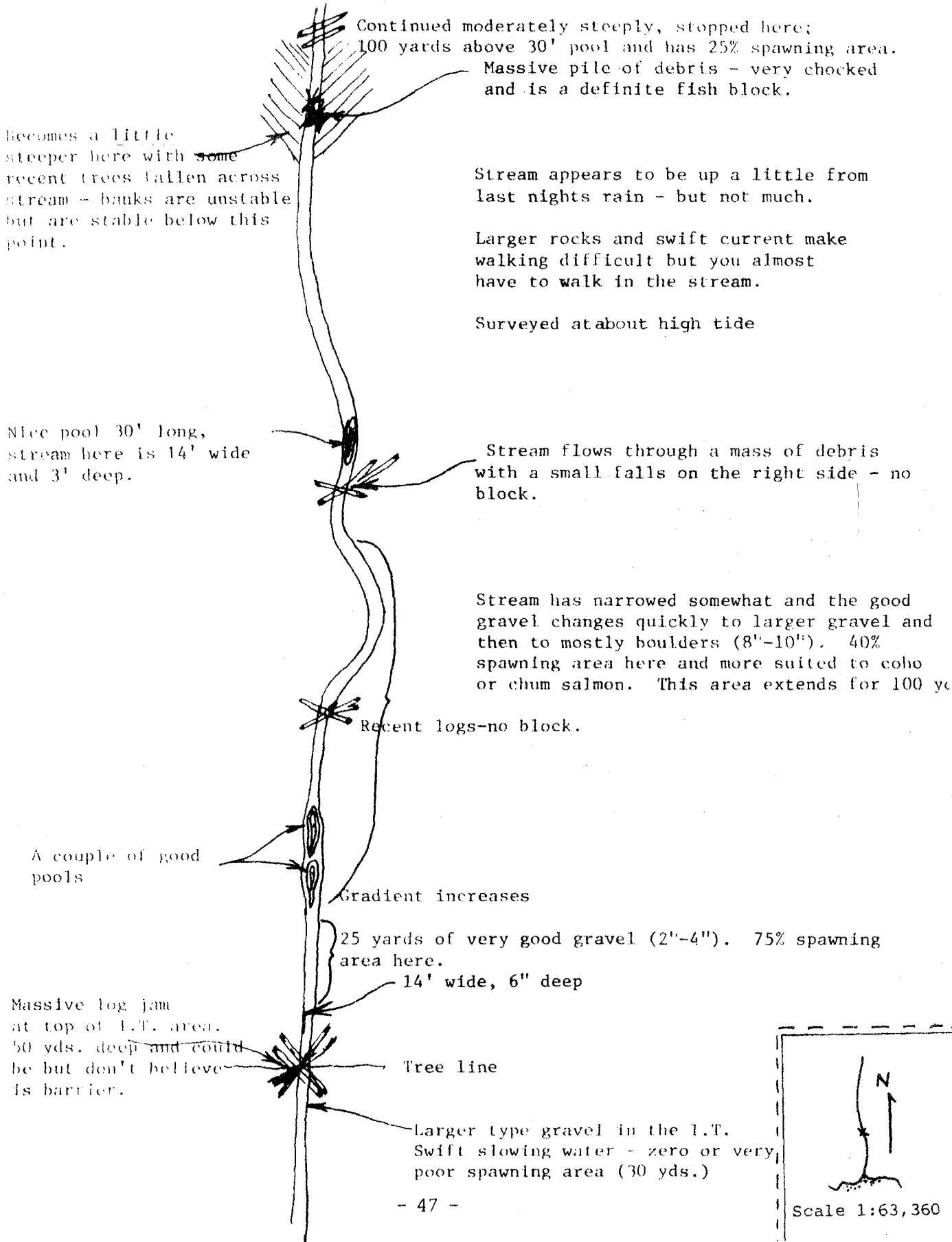
PEAK ESCAPEMENT RECORD

NAME: Stone Rock

STREAM CATALOG NUMBER: 102-10-52

DATE	PINK	CHUM	OTHER SPECIES	REMARKS
Sept. 8, 1964				100 pinks at mouth, Stream low (A)

Nichols Bay
102-10-54
Downey
5-24-74



Becomes a little steeper here with some recent trees fallen across stream - banks are unstable but are stable below this point.

Continued moderately steeply, stopped here; 100 yards above 30' pool and has 25% spawning area.
Massive pile of debris - very chocked and is a definite fish block.

Stream appears to be up a little from last nights rain - but not much.

Larger rocks and swift current make walking difficult but you almost have to walk in the stream.

Surveyed at about high tide

Nice pool 30' long, stream here is 14' wide and 3' deep.

Stream flows through a mass of debris with a small falls on the right side - no block.

Stream has narrowed somewhat and the good gravel changes quickly to larger gravel and then to mostly boulders (8"-10"). 40% spawning area here and more suited to coho or chum salmon. This area extends for 100 yd.

Recent logs - no block.

A couple of good pools

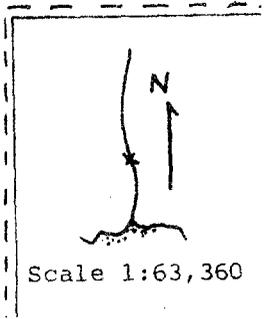
Gradient increases

25 yards of very good gravel (2"-4"). 75% spawning area here.
14' wide, 6" deep

Massive log jam at top of I.T. area. 50 yds. deep and could be but don't believe is barrier.

Tree line

Larger type gravel in the I.T. Swift slowing water - zero or very poor spawning area (30 yds.)



NAME _____ CATALOG NO. 102-10-54
 Latitude N 54° 42' 13" WB No. _____
 Longitude W 132° 03' 32" E No. _____
 Geologic Map No. Dixon Ent. C-1 Work Area Ketchikan
 Location Between Nichols Bay & C. Chacon Watershed Length 1.25 miles
 Drainage Area of Watershed _____
 Water Supply Type Precipitation and springs

Trails & Survey Routes Brushy banks, walk mostly in the stream.

Aerial Survey Notes Can't aerial survey due to small size and overstory.

Anchorage Good anchorage inside Nichols Bay - Refer to chart #8145 and Coast Pilot.

Tide Stage When Surveyed Half tide.

FISHERY RESOURCES

Commercial Fisheries Unknown

Escapement None recorded
 Available spawning area - 914 M²

Species Composition Unknown

Timing Unknown

Schooling areas Off the mouth and a couple of pool areas within the stream.

Shellfish Potential None - very steep and rocky intertidal zone.

Sport Fisheries Small stream - would be little, if any.

Land Use at Present None

History of Land Use None

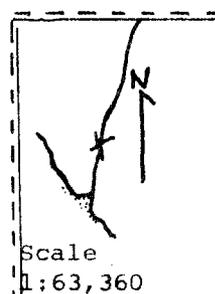
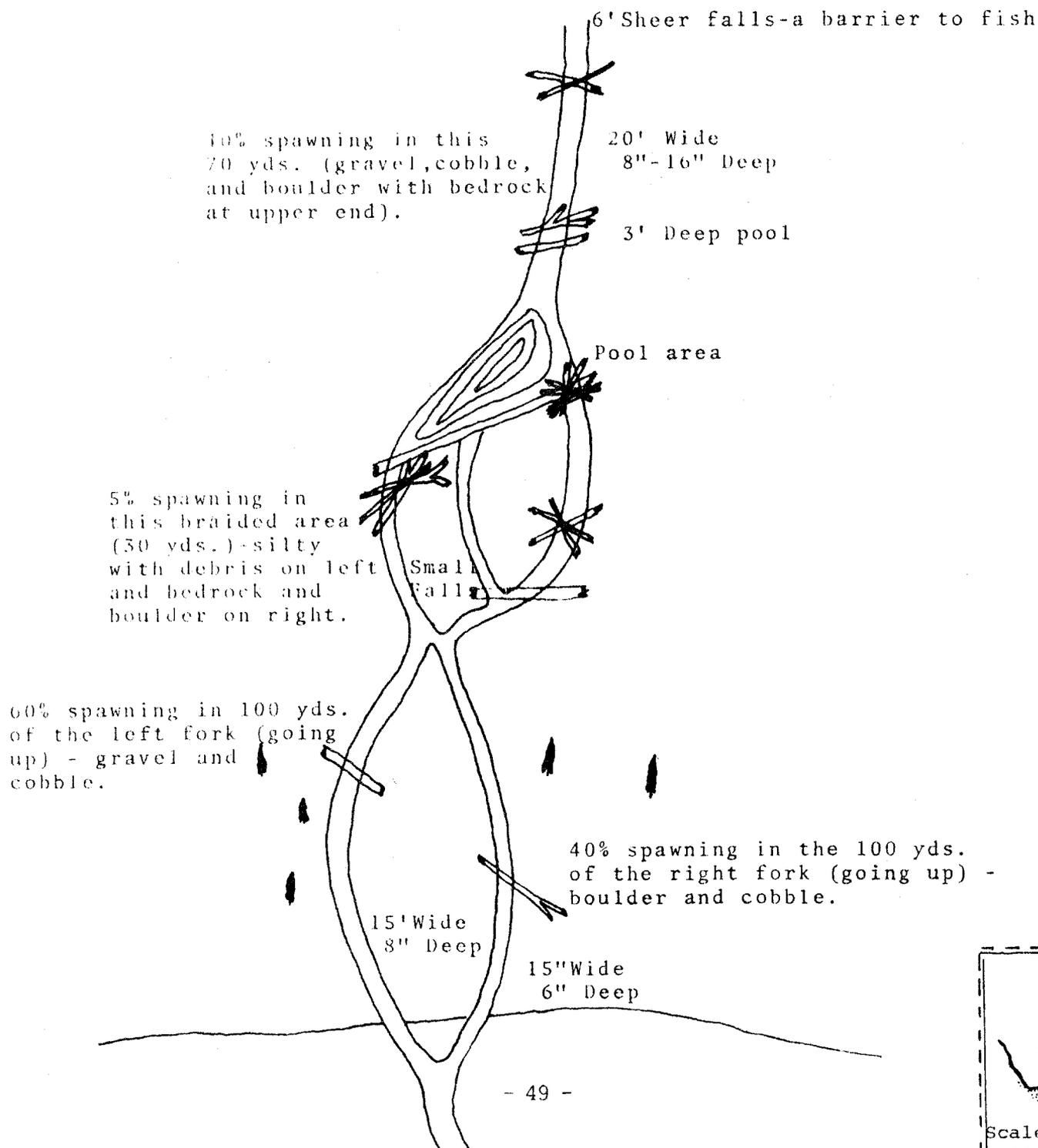
Rehabilitation Potential None - too small

Soils Stable to point walked, with some steepness and slumpage starting at that point.

GAME RESOURCES

Bear -----	Fish carcasses or bones (old or fresh) on banks, estimate	0
	Number of droppings	2
Geese -----	Number seen on tide flats	0
	Number seen up creek	0
	Number of broods seen	0
Mallards ---	Number seen on tide flats	0
	Number seen up creek	0
	Number of broods seen	0
Mergansers -	Number of broods seen	0
Bald Eagles-	Number seen along creek	0
	Number of nests seen and location	0
Seals -----	Number seen at mouth of stream	0
Tide flats -	Estimate length along beach	0
	Estimate depth out from beach	40 yds.
	Red grass present on what percent of flats	30 yds.

Elton



Name _____ Catalog No. 102-10-55
 Latitude 54°43'3" WR No. _____
 Longitude 132°6'20" K No. _____
 Geodetic Map No. _____ Work Area Ketchikan
 Location E. Side of Nichols Bay, Watershed Length _____
 Drainage Area of Watershed _____
 Water Supply Type Spring and runoff

Trails & Survey Routes Walk in stream

Aerial Survey Notes Not feasible to survey by air - heavy overstory and small stream.

Anchorage Anchor in Nichols Bay - see Coast Pilot

Tide Stage When Surveyed High Tide

FISHERY RESOURCES

Commercial Fisheries No data available

Escapement Available spawning area - 537 M2

Species Composition No data available

Timing No data available

Schooling areas No data available

Shellfish Potential None-Rocky

Sport Fisheries No data available

Land Use at Present None

History of Land Use None

Rehabilitation Potential None

Soils Stable to point walked

GAME RESOURCES

Bear -----	Fish carcasses or bones (old or fresh) on banks, estimate	<u>0</u>
	Number of droppings	<u>0</u>
Geese -----	Number seen on tide flats	<u>0</u>
	Number seen up creek	<u>0</u>
	Number of broods seen	<u>0</u>
Mallards ---	Number seen on tide flats	<u>0</u>
	Number seen up creek	<u>0</u>
	Number of broods seen	<u>0</u>
Mergansers -	Number of broods seen	<u>0</u>
Bald Eagles--	Number seen along creek	<u>0</u>
	Number of nests seen and location	<u>0</u>
Seals -----	Number seen at mouth of stream	<u>0</u>
Tide flats -	Estimate length along beach	<u>-</u>
	Estimate depth out from beach	<u>-</u>
	Est. grass present on what percent of flats	<u>0</u>

A very good stream and should have good fishery potential. Some good rearing areas for coho throughout (good pools and side areas.)

Water flowing through debris and over logs - 4' drop and is a fish block.

Easy stream to walk - walk in the stream.

Tide 2/3 out and ebbing
Normal flow.
Sunny day.

Looked for fry in the pools and side areas but saw none
Good looking stream - one of the better ones in this area.

Spawning area for the entire stream = 60%

Steep - much slumpage and debris in stream. Stopped here, approx. 400 yds. above the top of the ITZ.

Log jam and probable barrier with water flowing thru debris.

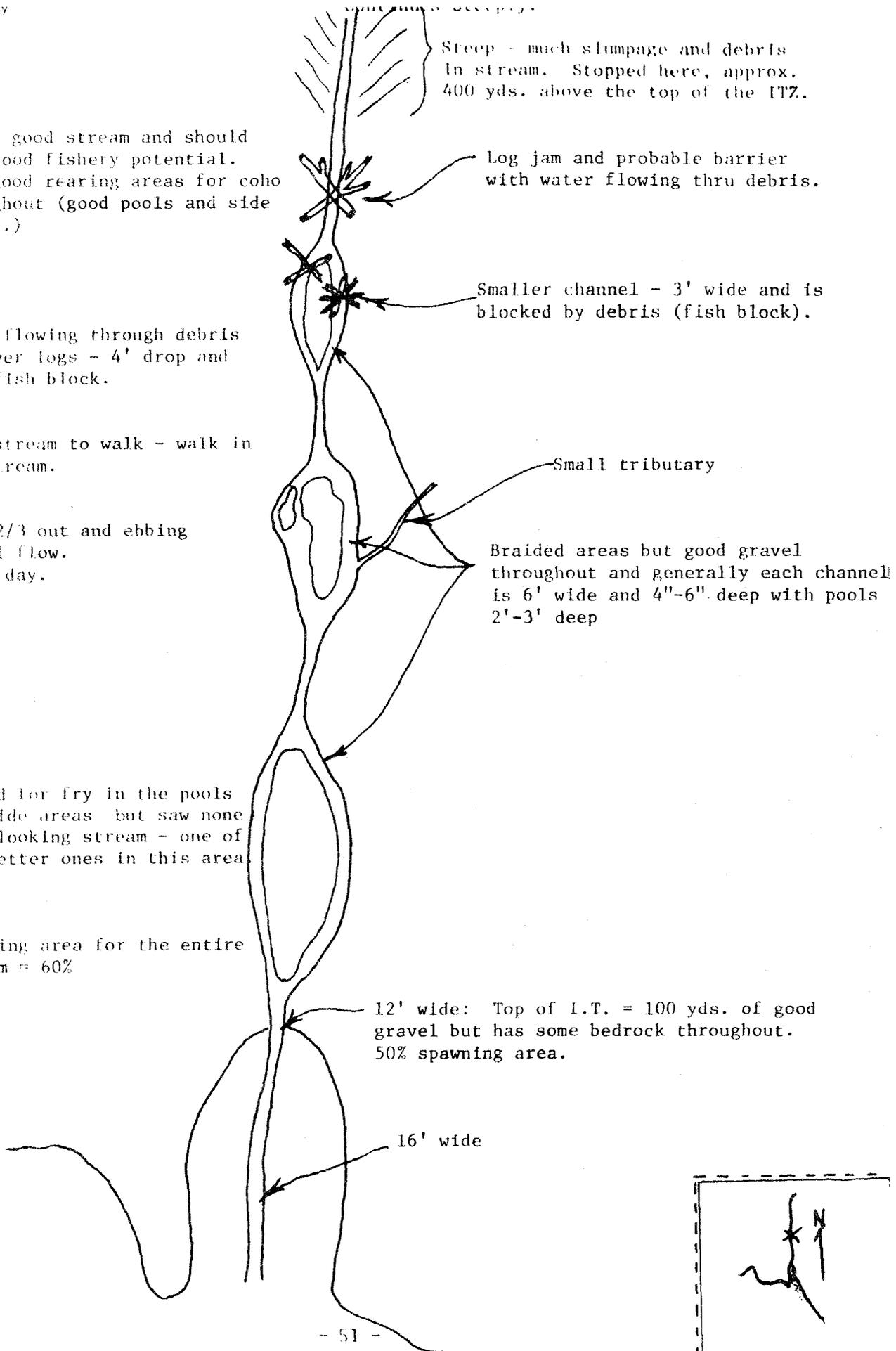
Smaller channel - 3' wide and is blocked by debris (fish block).

Small tributary

Braided areas but good gravel throughout and generally each channel is 6' wide and 4"-6" deep with pools 2'-3' deep

12' wide: Top of I.T. = 100 yds. of good gravel but has some bedrock throughout. 50% spawning area.

16' wide



Name _____ Catalog No. 102-10-58
 Latitude N 54°44' 34" WR No. _____
 Longitude W 132° 08'56" K No. _____
 Geodetic Map No. Dixon Ent. C-1 Work Area Ketchikan
 Location Nichols Bay (W. of Chacon) Watershed Length 1.75 miles
 Drainage Area of Watershed _____
 Water Supply Type Precipitation, springs.

Trails & Survey Routes Banks brushy but easy to walk in the stream.

Aerial Survey Notes Too small with overstory to survey except the I.T. area.

Anchorage Good anchorage inside Nichols Bay - refer to navigation chart #8145 and Coast Pilot.

Tide Stage When Surveyed 2/3 out and ebbing

FISHERY RESOURCES

Commercial Fisheries None recorded

Escapement None recorded

Available spawning area - 1,254 M²

Species Composition Unknown

Timing Unknown

Schooling areas Would be off the I.T. area and pools within the stream.

Shellfish Potential Appeared to be pretty rocky but could be a little in the lower I.T. area.

Sport Fisheries None - too small

Land Use at Present None

History of Land Use None

Rehabilitation Potential None - too small

Soils Stable to the point walked but could be some slumpage above this as it continues up steeply from the point where I stopped.

GAME RESOURCES

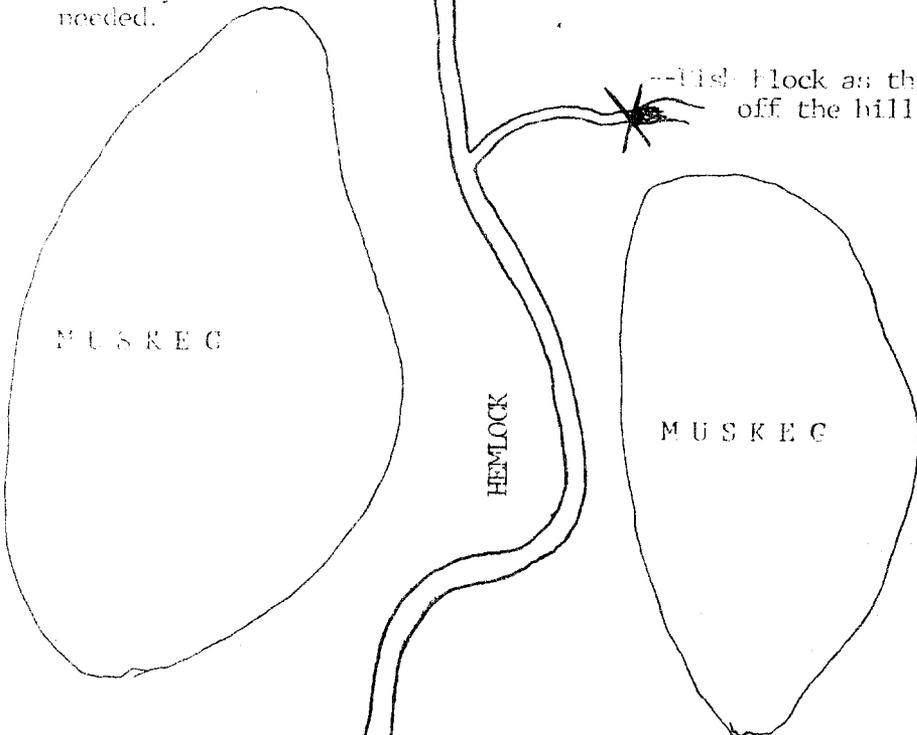
Bear -----	Flsh carcasses or bones (old or fresh) on banks, estimate	<u>0</u>
	Number of droppings	<u>1</u>
Geese -----	Number seen on tide flats	<u>0</u>
	Number seen up creek	<u>0</u>
	Number of broods seen	<u>0</u>
Mallards ---	Number seen on tide flats	<u>0</u>
	Number seen up creek	<u>0</u>
	Number of broods seen	<u>0</u>
Mergansers -	Number of broods seen	<u>0</u>
Bald Eagles-	Number seen along creek	<u>0</u>
	Number of nests seen and location	<u>0</u>
Seals -----	Number seen at mouth of stream	<u>0</u>
Tide flats -	Estimate length along beach	<u>40 yds</u>
	Estimate depth out from beach	<u>100 yds</u>
	Est. grass present on what percent of flats	

Fish block, 10' high
Approximately
2 miles above
mouth of lake.

Upper Nichols Lake Creek
102-10-60
Novak.

Stream above block narrows
to 20-25' and increases in
velocity. No rehabilitation
needed.

Fish block as this tributary cascades
off the hill.



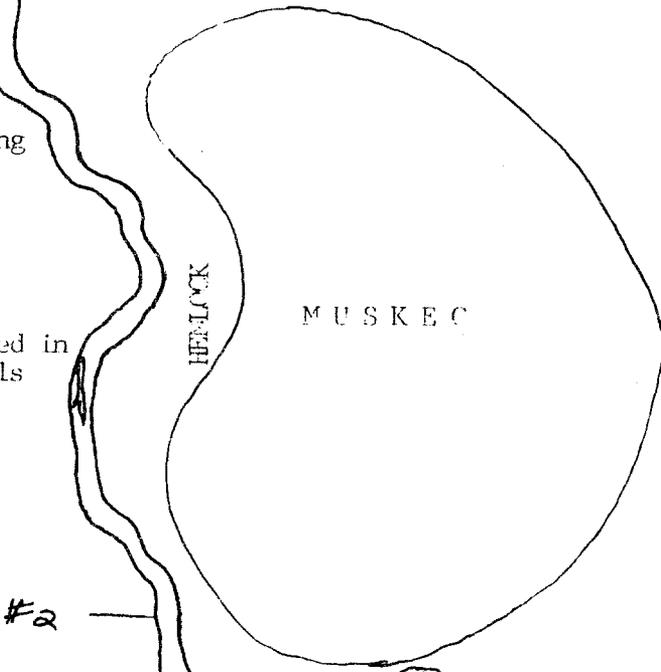
- 65' wide
Very dark colored water.

Slow moving water throughout
the lower 2 miles of this
stream.

Appears to have excel-
lent red salmon spawning
characteristics.

The Lake may have good
potential for rearing
salmon.

1500 red salmon reported in
the stream below Nichols
Lake in 1956.

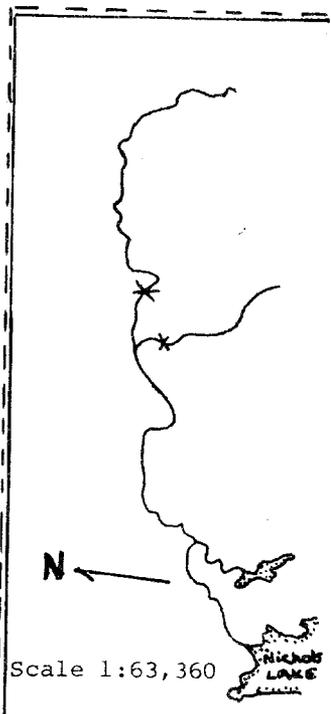


#2

- 53 -



NICHOLS LAKE



N

Scale 1:63,360

Nichols
LAKE

Nichols Lake

1/2 mile to lake from I.T.Z.

10% spawning (bedrock pools and interspersed cobble in this 200 yds)

75' wide, 10" deep

Nichols Bay - Nichols Creek
102-10-60
Downey - Elton
5-26-74

50% spawning (cobble and slower water) in this 150 yards.

75' wide, 10" deep

0% spawning (bedrock and boulders) in this 200 yards)

65' wide, 12" deep

10% spawning in this 350 yards (boulders, bedrock, and cobble)

3' wide tributary, 325 yds above I.T.Z.

Steep hillside

65' wide, 13" deep

Steep hillside

Station #1 (75 yds above I.T.Z.)

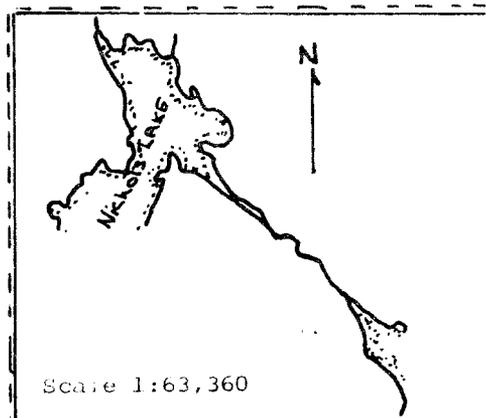
0% spawning in this 75 yards to station #1 (steep gradient with boulders and bedrock)
20' wide, 12" deep

20' wide, 12" deep

Steep hillside

I.T.Z. 500 yards.

Boulders and dark rock with some bedrock.
No fisheries potential.



Name Nichols Creek Catalog No. 102-10-60
 Latitude N 54° 44' 48" WP No. 118A
 Longitude W 132° 10' 03" K No. 119
 Topologic Map No. Dixon Ent. C-1 & D-1 Work Area Ketchikan
 Location Nichols Bay - head Watershed Length 4.5 Miles
 Drainage Area of Watershed 11.2 sq. miles (polar planimeter)
 Water Supply Type Lake

Trail & Survey Routes No trail but a fair game path on right side of stream, going upstream.

Special Survey Notes Hard to survey from the air because of dark rock bottom and mossy patches the length of the stream.

Anchorage Good anchorages marked on nautical chart. See Coast Pilot.

Tide Stage When Surveyed 1/2 ebb tide.

FISHERY RESOURCES

Commercial Fisheries Red, coho and pink peak year esc. for reds was 1956 with 2000, peak year for pinks, 1949 with 2000 pinks.

Escapement Available spawning area (1st stream section) - 634 M²; available spawning area (3rd stream section) - 1,568 M²; available spawning area (last section) - 418 M²

Species Composition Data too incomplete to determine.

Timing Mid July for reds, data too incomplete for timing schedule on pinks.

Schooling areas -

Shellfish Potential None - too rocky

Sport Fisheries Unknown - a big system and could have steelhead, cutthroat and Dolly Varden.

Land Use at Present None

History of Land Use None

Rehabilitation Potential None needed.

Soils Steep in some areas of stream but banks fairly stable.

WILDLIFE RESOURCES

Bear -----	Fish carcasses or bones (old or fresh) on banks, estimate	0
	Number of droppings	6
Geese -----	Number seen on tide flats	0
	Number seen up creek	0
	Number of broods seen	0
Mallards ----	Number seen on tide flats	0
	Number seen up creek	0
	Number of broods seen	0
Emysansers --	Number of broods seen	0
Wild Eagles--	Number seen along creek	0
	Number of nests seen and location	0
Osprey -----	Number seen at mouth of stream	0
Tide flats -	Estimate length along beach	75 yds.
	Estimate depth out from beach	500 yds.
	Red grass present on what percent of flats	

STREAM INVENTORY FORM

Observers: Downey, Elton

Date: 5-26-74

Name: Nichols Creek

Temperature: -

Number: 102-10-60

Weather: Clear

Station No.	1	2																	
Pool Size/Type	2/1	2/2																	
Riffle Type	65'W	65'W																	
Width - Depth	13'D	12'D																	
Pool Riffle Frequency	3	2																	
Bottom Type (Riffle)	5/6	4/5																	
Color/Turbidity	2/2	3/2																	
Velocity	2	1																	
Flow (C.F.S.)	184.08	-																	
Temp. (°F.)	54°	54																	
pH	5	5																	
Fry Abundance	0	0																	
Benthos Sample No.	1001	-																	
Higher Plant Class	1	2																	
Aquatic Veg. Density	1	3																	
Ident.	/	/																	
(1) Mosses																			
(2) Algae	2	2																	

General Remarks (rehab., land use, barriers, log jams, etc.):

PEAK ESCAPEMENT RECORD

NAME: Nichols Creek

STREAM CATALOG NUMBER: 102-10-60

DATE	PINK	CHUM	OTHER SPECIES	REMARKS
Sept. 4, 1949	2,000			(G)
Aug. 26, 1955			100 red	(A)
July 8, 1956			1,500 red	500 red at mouth
Aug. 25, 1956				3,000-5,000 coho, pink
July 22, 1957			3,000 red	
Sept. 1, 1961				No fish observed off mouth (A)
Sept. 1, 1961				Fish present in inlet and outlet. Vis. poor. (A)
Aug. 29, 1963				200 fish present at the mouth of the stream. (A)
Sept. 8, 1964	couple			Vis. good. (A)
Sept. 1, 1966				5-10,000 pinks at mouth of stream Showing exceptionally well. (F)

Nichols Bay
102-10-63
Downey
5-24-74

A small stream at normal flow and could support a few spawners (30-50 at a guess) but I'd say it generally had very poor or almost no fishery potential.

About 1/2 tide and ebbing, sunny day.

15' barrier falls
50 yds above top of intertidal.

4' wide and 4"-6" deep

Large gravel and boulders start here.

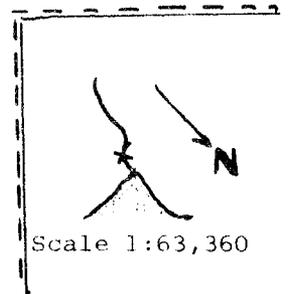
Some fair gravel here and could support a few spawners.

Flows under this small area of debris underground.

GRAVEL
BAR

2' wide and 2" deep

4' wide, 4" deep



Name _____ Catalog No. 102-10-63
 Latitude N 54° 43' 57" WR No. _____
 Longitude W 132° 09' 24" K No. _____
 Geographic Map No. Dixon Ent. C-1 Work Area Ketchikan
 Location Nichols Bay (W. of Chacon) Watershed Length Approx. 5/8 mile
 Principal Area of Watershed _____
 Water Supply Type Precipitation, springs

Trips & Survey Routes Doesn't go very far to a falls - can walk in the stream.

Field Survey Notes Too small with oversotry to survey all but the intertidal by air.

Anchorage Good anchorage inside Nichols Bay - refer to navigation chart #8145 and Coast Pilot.

Tide Stage When Surveyed 1/2 tide and ebbing

FISHERY RESOURCES

Commercial Fisheries None recorded

Escapement None recorded

Available spawning area - 28 M²

Species Composition None recorded

Timing Unknown

Schooling areas Would be off the mouth

Shellfish Potential Could be a little - some grass and mud at the lower intertidal area.

Sport Fisheries None - too small

Land Use at Present None

History of Land Use None

Rehabilitation Potential None - too small

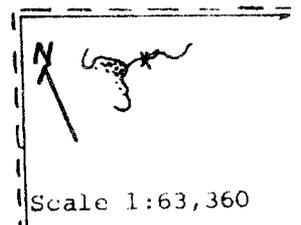
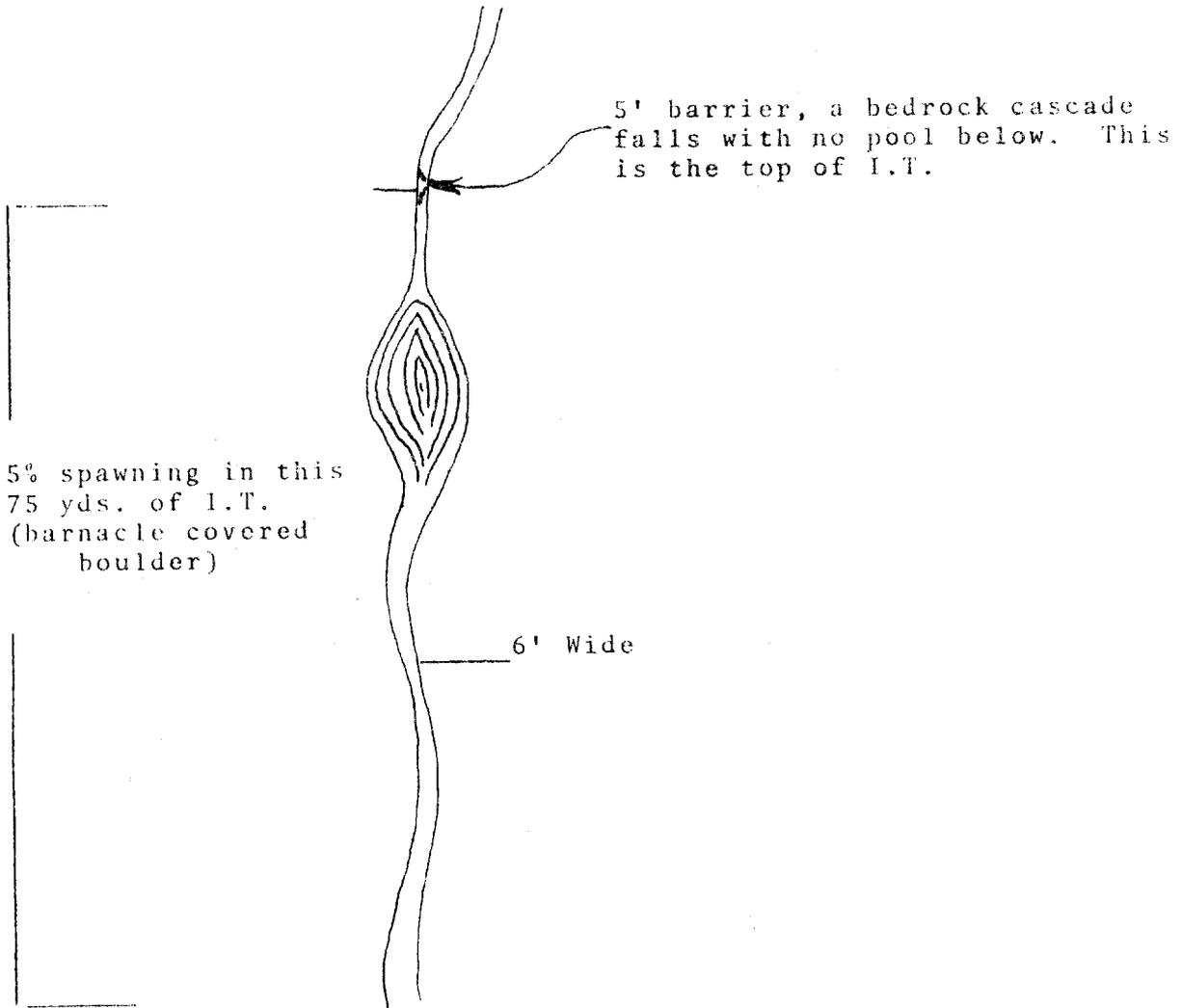
Soils Stable to the point walked but could be some slumpage above this at it goes uphill steeply.

GAME RESOURCES

Bear -----	Fish carcasses or bones (old or fresh) on banks, estimate	<u>0</u>
	Number of droppings	<u>0</u>
Geese -----	Number seen on tide flats	<u>0</u>
	Number seen up creek	<u>0</u>
	Number of broods seen	<u>0</u>
Mallards ---	Number seen on tide flats	<u>0</u>
	Number seen up creek	<u>0</u>
	Number of broods seen	<u>0</u>
Mergansers -	Number of broods seen	<u>0</u>
Bald Eagles-	Number seen along creek	<u>0</u>
	Number of nests seen and location	<u>0</u>
Seals -----	Number seen at mouth of stream	<u>0</u>
Tide flats -	Estimate length along beach	
	Estimate depth out from beach	
	Eel grass present on what percent of flats	

102-10-68
East Side Bronson
Bay
May 24, 1974
Downey

*This stream is not shown on the navigational chart.



Catalog No. 102-10-68

Latitude 54°44'33"
Longitude 152°13'37"
Geologic Map No. Dixon Entrance C-1
Location West Side Bronson Bay
Drainage Area of Watershed
Water Supply TYP^o Muskeg and runoff

WR No.
K No.
Work Area Ketchikan
Watershed Length

Trails & Survey Routes Follow the stream

Aerial Survey Notes The only area with potential is the I.T. zone

Anchorage See Coast Pilot

Tide Stage When Surveyed Low

FISHERY RESOURCES

Commercial Fisheries No data

Escapement Available spawning area - 6 M²

Species Composition No data

Timing No data

Schooling areas No data

Shellfish Potential None-Rocky

Sport Fisheries No data

Land Use at Present None

History of Land Use None

Rehabilitation Potential None

Soils Stable to point walked

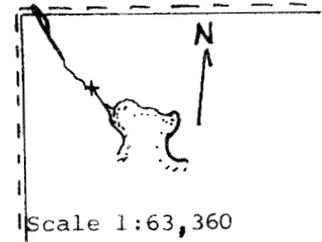
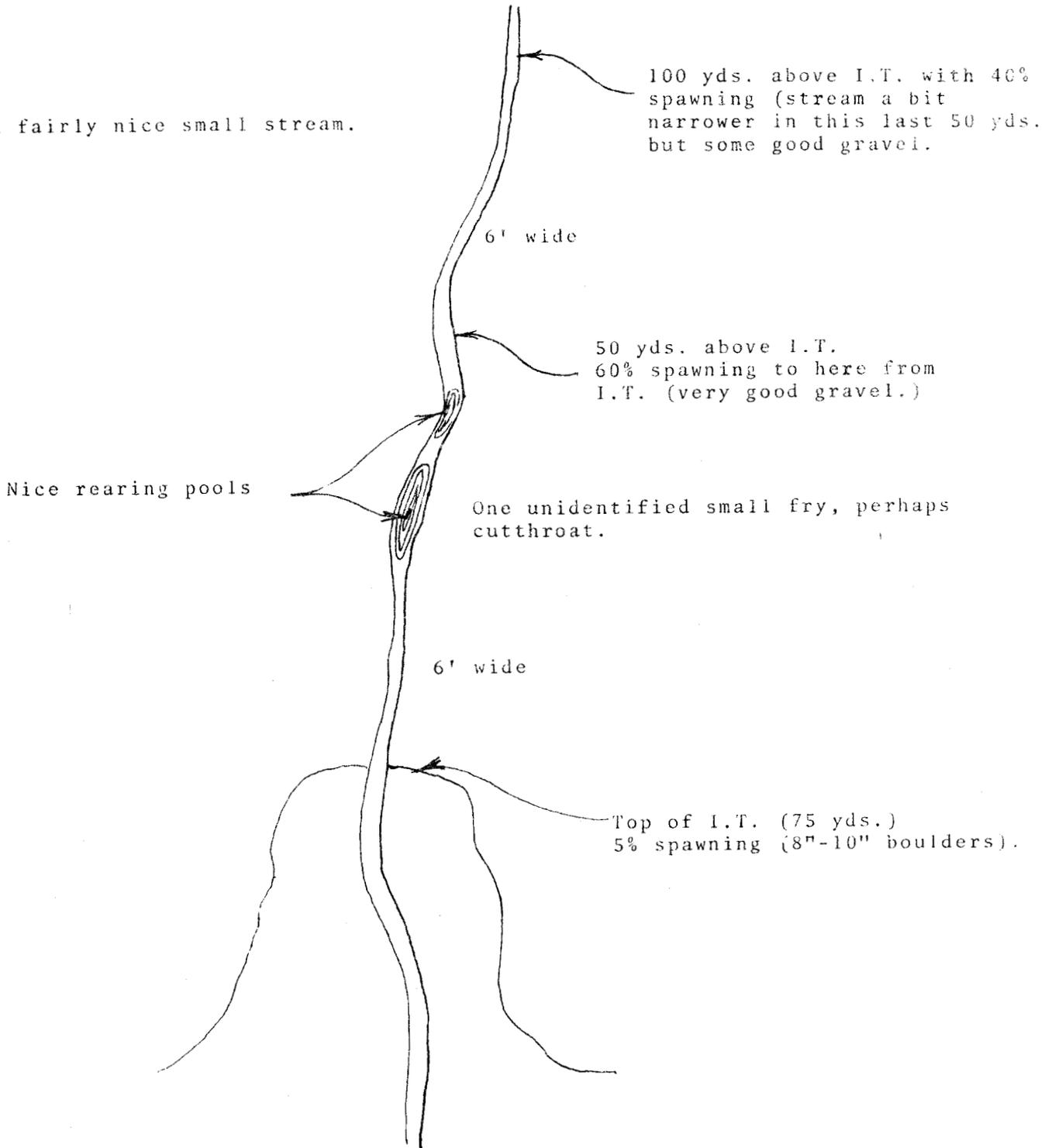
GAME RESOURCES

Bear -----	Fish carcasses or bones (old or fresh) on banks, estimate	0
	Number of droppings	0
Geese -----	Number seen on tide flats	0
	Number seen up creek	0
	Number of broods seen	0
Mallards ---	Number seen on tide flats	0
	Number seen up creek	0
	Number of broods seen	0
Mergansers -	Number of broods seen	0
Bald Eagles-	Number seen along creek	0
	Number of nests seen and location	0
Seals -----	Number seen at mouth of stream	0
Tide flats -	Estimate length along beach	-
	Estimate depth cut from beach	-
	Est. grass present on what percent of flats	0

102-10-75

Narrows, gets brushy and swifter and potential drops fast.

A fairly nice small stream.



Name _____ Catalog No. 102-10-75
 Latitude 54°46'22" WR No. _____
 Longitude 132°14'16" K No. --
 Geologic Map No. Dixon Entrance D-1 Work Area Ketchikan
 Location Head Bronson Bay Watershed Length _____
 Drainage Area of Watershed _____
 Water Supply Type Runoff and spring

Trails & Survey Routes Walk on stream

Aerial Survey Notes Too small to be feasible-heavy overstory

Anchorage See Coast Pilot

Tide Stage When Surveyed Low

FISHERY RESOURCES

Commercial Fisheries No data

Escapement Available spawning area - 100 M²

Species Composition No data

Timing No data

Schooling areas No data

Shellfish Potential None - rocky

Sport Fisheries No data

Land Use at Present None

History of Land Use None

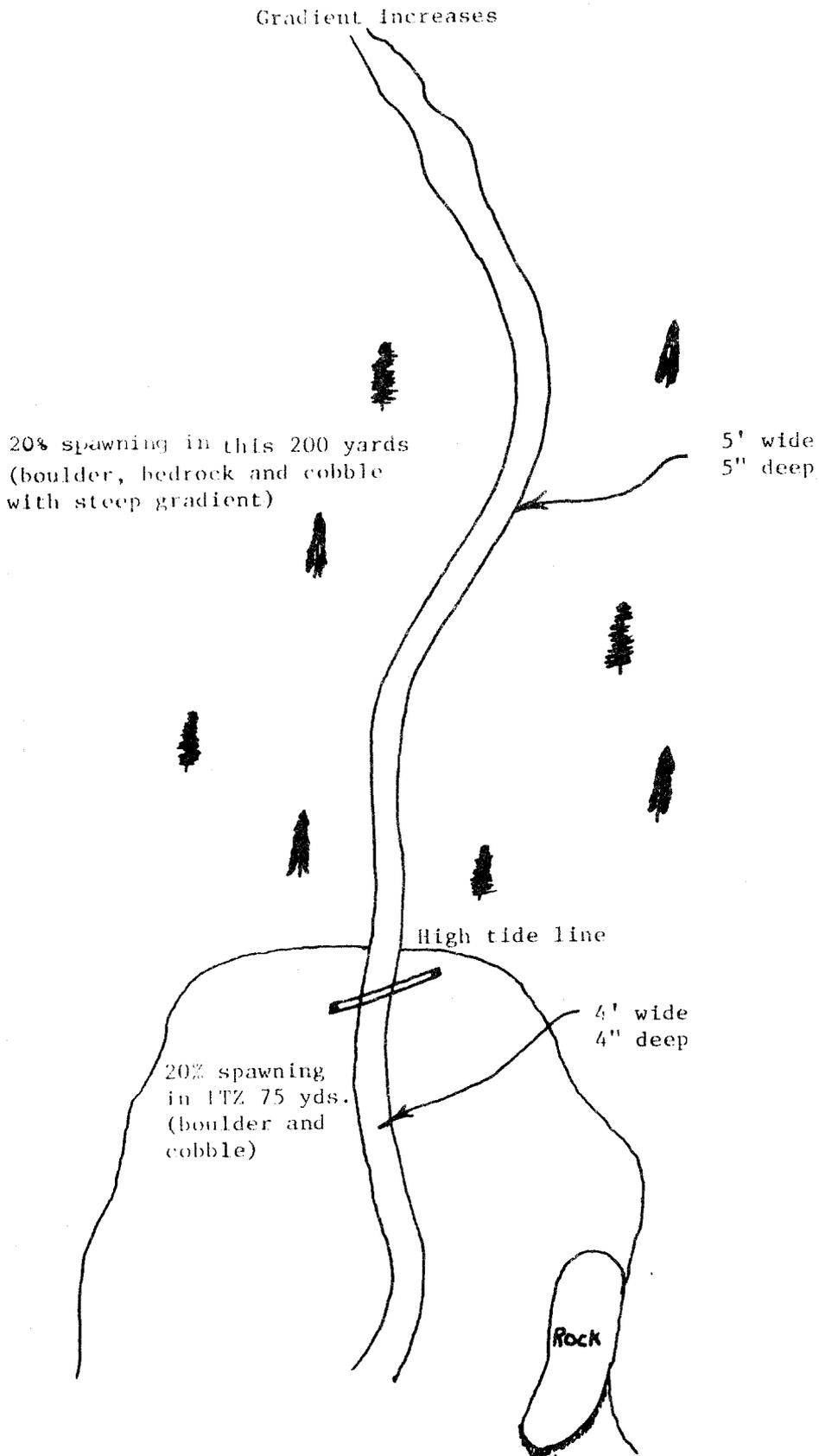
Rehabilitation Potential _____

Soils Stable to point walked

GAME RESOURCES

Bear -----	Fish carcasses or bones (old or fresh) on banks, estimate	<u>0</u>
	Number of droppings	<u>0</u>
Geese -----	Number seen on tide flats	<u>0</u>
	Number seen up creek	<u>0</u>
	Number of broods seen	<u>0</u>
Mallards ---	Number seen on tide flats	<u>0</u>
	Number seen up creek	<u>0</u>
	Number of broods seen	<u>0</u>
Mergansers -	Number of broods seen	<u>0</u>
Bald Eagles-	Number seen along creek	<u>0</u>
	Number of nests seen and location	<u>0</u>
Seals -----	Number seen at mouth of stream	<u>0</u>
Tide flats -	Estimate length along beach	<u>-</u>
	Estimate depth out from beach	<u>-</u>
	Eel grass present on what percent of flats	<u>0</u>

Head of bight below Hidden Bay
102-20-01
Elton
5-28-74



Scale 1:63,360

Name _____ Catalog No. 102-20-01
 Latitude N 54° 55' 41" WR No. -
 Longitude W 131° 59' 23" K No. -
 Gridetic Map No. Prince Rupert D-6 Work Area Ketchikan
 Location Head of Right below Hidden Bay Watershed Length _____
 Drainage Area of Watershed _____
 Water Supply Type Runoff, springs

Trails & Survey Routes Walk in Stream

Tidal Survey Notes Not feasible

Moorage Anchor in Kendrick Islands (see Coast Pilot)

Tide Stage When Surveyed Low

FISHERY RESOURCES

Commercial Fisheries No data

Escapement Available spawning area - 77 M2

Species Composition No data

Timing No data

Schooling areas No data

Shellfish Potential None (rocky)

Sport Fisheries No data

Land Use at Present None

History of Land Use None

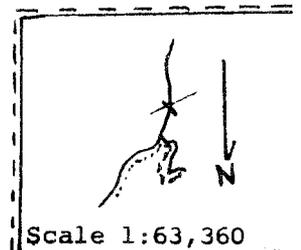
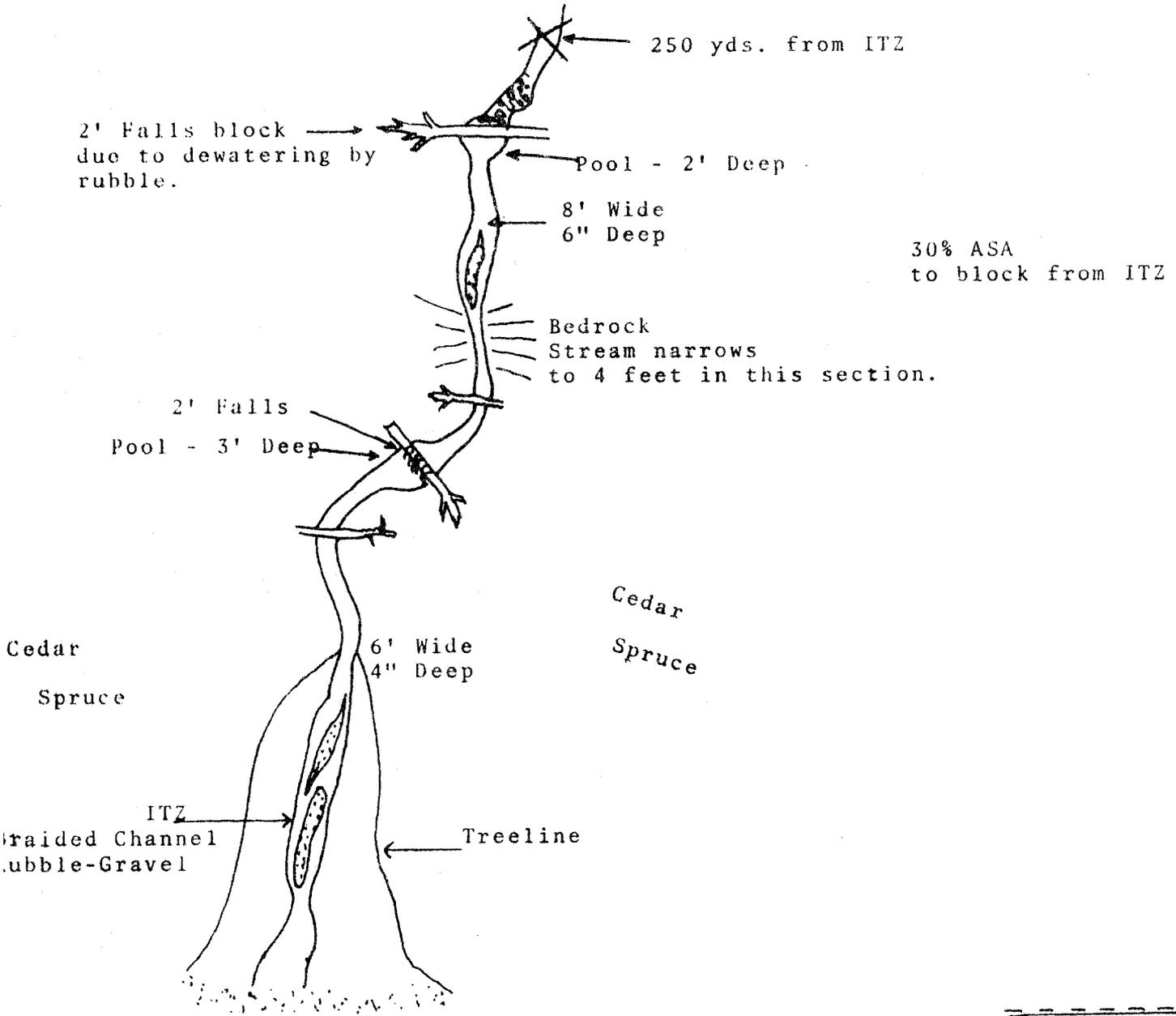
Rehabilitation Potential None

Soils stable

GAME RESOURCES

Bear -----	Fish carcasses or bones (old or fresh) on banks, estimate	0
	Number of droppings	0
Geese -----	Number seen on tide flats	0
	Number seen up creek	0
	Number of broods seen	0
Mallards ---	Number seen on tide flats	0
	Number seen up creek	0
	Number of broods seen	0
Mergansers -	Number of broods seen	0
Hald Eagles-	Number seen along creek	0
	Number of nests seen and location	0
Seals -----	Number seen at mouth of stream	0
Tide flats -	Estimate length along beach	-
	Estimate depth out from beach	-
	Eel grass present on what percent of flats	0

An excellent small stream for coho rearing.
50% of surveyed area is pools.
May provide pink and chum spawning areas.



Name Hidden Bay-South Head Stream Catalog No. 102-20-05
 Lat. N 54°55'43" WP No. _____
 Long. W 132°01'12" E No. _____
 District Dix. Ent. D-1 Work Area Ketchikan
 Location Hidden Bay Watershed Length .6 mile
 Drainage Area of Watershed .75 square miles
 Water Supply SP. Runoff with springs

Trail & Survey Routes Walk up stream.

Aerial Survey Notes Impossible to survey from the air due to the overstory.

Remarks Large vessel has to anchor out of Hidden Bay. Use skiff to survey. Many rocks and reefs associated with Bay.

Tide Stage When Surveyed First half of Flood

FISHERY RESOURCES

Commercial Fisheries Coho, Pink

Escapement Unknown

Available spawning area - 146 M²

Species Composition Probably near 100% coho.

Timing Late

Schooling areas At mouth of creek and in the head of Hidden Bay.

Shellfish Potential Good clam producing flats at head of Hidden Bay.

Sport Fisheries Coho, Dolly Varden

Land Use at Present None

History of Land Use None

Rehabilitation Potential Unnecessary due to size of stream and possible enhancement.

Soils Stable

GAME RESOURCES

Bear -----	Fish carcasses or bones (old or fresh) on banks, estimate	0
	Number of droppings	0
Geese -----	Number seen on tide flats	0
	Number seen up creek	0
	Number of broods seen	0
Mallards ---	Number seen on tide flats	0
	Number seen up creek	0
	Number of broods seen	0
Winged Grebe -	Number of broods seen	0
Red Bayless-	Number seen along creek	0
	Number of nests seen and location	0
Seals -----	Number seen at mouth of stream	0
Tide Flats -	Estimate length along beach	0
	Estimate depth out from beach	0
	Red grass present on what percent of flats	0

STREAM INVENTORY FORM

Observers: Novak
 Date: May 28, 1974
 Temperature: 50°
 Weather: Calm-Clear

Name: South Head-Hidden Bay

Number: 102-20-05

- 88 -

Station No.	1																		
Pool Size/Type	2/1																		
Riffle Type	8'-W																		
Width - Depth	6"-D																		
Pool Riffle Frequency	2																		
Bottom Type (Riffle)	4-5																		
Color/Turbidity	1																		
Velocity	2																		
Flow (C.F.S.)	1-2																		
Temp. (°F.)	50																		
pH	5																		
Fry Abundance																			
Benthos Sample No.	-																		
Higher Plant Class	3																		
Aquatic Veg. Density	2																		
Ident.																			
(1) Mosses	1																		
(2) Algae																			

General Remarks (rehab., land use, barriers, log jams, etc.):

Hidden Bay - center of head
102-20-07
Downey
5-28-74

300 yards above the top of the I.T. zone are two falls which are a fish block.

75 yds. of canyon and bedrock area.

A little debris in stream but not bad - easy to walk in stream.

Spawning area for the entire stream = 40%

At normal flow.

About low tide.

Poorer spawning area as you progress upstream. More pools, traces of bedrock and larger gravel (2" - 8").

Debris pile - probably a barrier except at high flows.

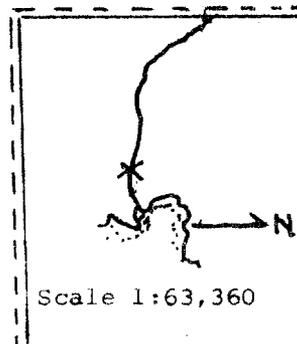
Small tributary

125 yards of open and grassy area - good gravel here = 1" - 3". Stream here looks good with 90% spawning area.

14' wide & 5"-6" deep

50 yds of slow water area

200 yards of I.T. area. Composed mostly of larger boulders and is very mossy 5% spawning area here.



Date _____ Catalog No. 102-20-07
 Latitude N 54° 55' 52" WR No. _____
 Longitude W 132° 01' 37" K No. 126
 Controlling Point Dixon Ent. D-1 Work Area Ketchikan
 Location Hidden Bay - center of head Watershed length 1.5 miles
 Drainage Area of Watershed _____
 Water Supply Type Precipitation, spring.

Trails & Access Routes A little debris in the stream but not bad - easy to walk
 in the stream.

Aerial Survey Notes Too small to survey above the I.T.Z.

Anchorage Pretty rocky getting in here. Would probably run to either the Kendrick
 Island or Menefee anchorage. Refer to the Coast Pilot.

Tide Stage When Surveyed About low tide.

FISHERY RESOURCES

Commercial Fisheries Pink and chum

Escapement 100 pink and 200 chum on 9-21-30: 2700 pinks on 9-5-57

Available spawning area - 780 M²

Species Composition 95% pink and 5% chum

Timing Middle

Schooling areas Off the mouth.

Shellfish Potential Fairly good flats here and could have some shellfish
 potential.

Sport Fisheries None - too small : may accomodate a few trout or steelhead.

Land Use at Present None

History of Land Use None

Rehabilitation Potential None - pretty steep just above falls area.

Soils Stable to the point where I stopped.

GATE RESOURCES

Bear -----	Fish carcasses or bones (old or fresh) on banks, estimate	0
	Number of droppings	0
Geese -----	Number seen on tide flats	0
	Number seen up creek	0
	Number of broods seen	0
Hallards ----	Number seen on tide flats	0
	Number seen up creek	0
	Number of broods seen	0
Mergansers -	Number of broods seen	0
Red Eagles--	Number seen along creek	0
	Number of nests seen and location	0
Seals -----	Number seen at mouth of stream	0
Tide flats: -	Estimate length along beach	
	Estimate depth out from beach	
	Bed grass present on what percent of flats	

PEAK ESCAPEMENT RECORD

NAME: Hidden Bay

STREAM CATALOG NUMBER: 102-20-07

DATE	PINK	CHUM	OTHER SPECIES	REMARKS
Aug. 26, 1970	N.O.			Vis. poor (A)

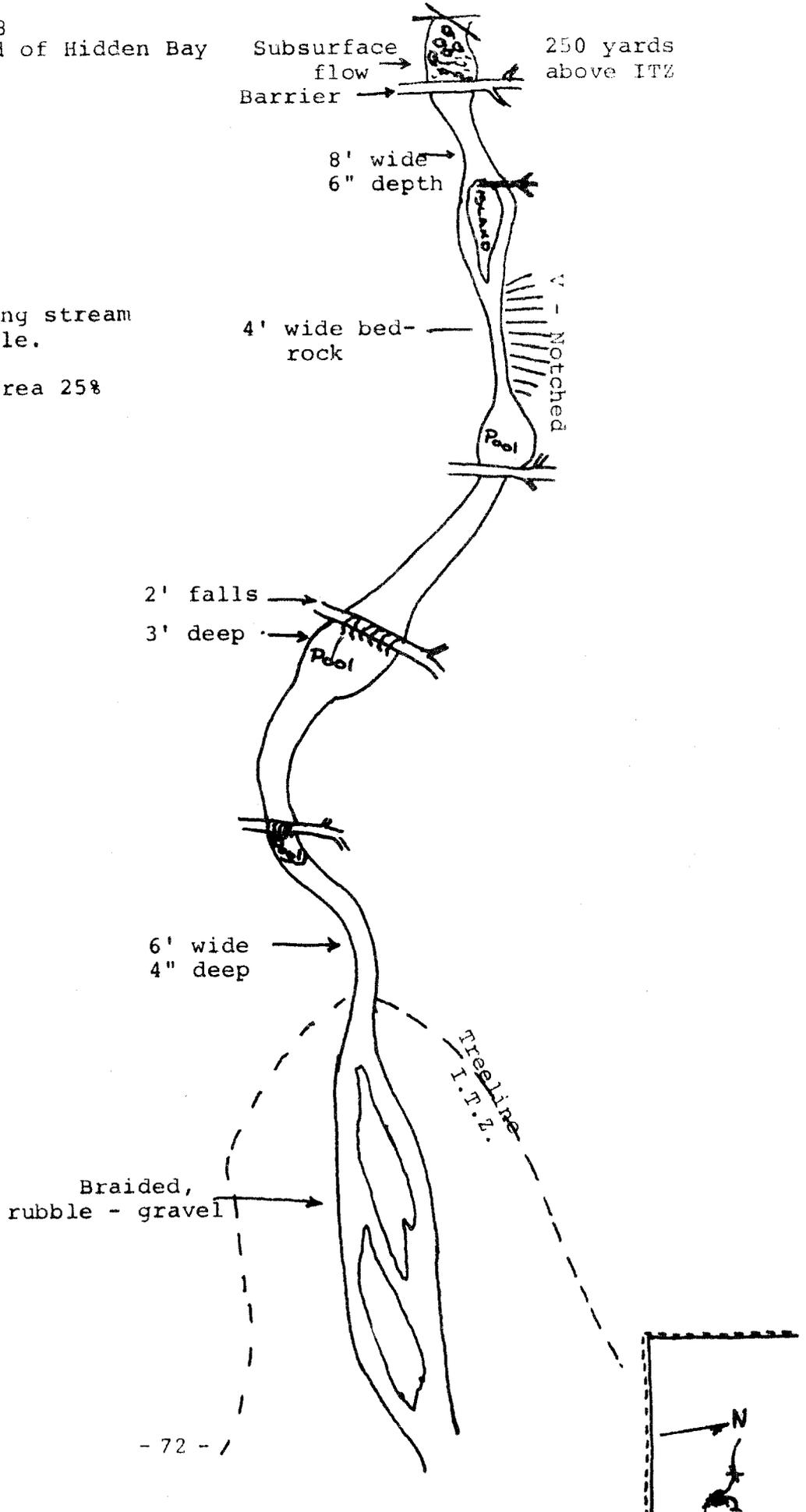
102-20-08
East head of Hidden Bay
Novak
5-28-74

Subsurface flow →
Barrier → 250 yards above ITZ

Excellent coho rearing stream with 50% pool - riffle.

Available spawning area 25%

CEDAR
HEMLOCK



Name Head of Hidden Bay (East Side) Catalog No. 102-20-08
 Latitude N 54° 55' 43" WR No. -
 Longitude W 132° 01' 11" K No. -
 Geologic Map No. Dixon Entrance D-1 Work Area Ketchikan - District II
 Location Hidden Bay Watershed Length 1 mile
 Drainage Area of Watershed 1² mile
 Water Supply Type Springs, runoff

Trails & Survey Routes Walk either bank for easiest access.

Aerial Survey Notes Small stream that has a dense canopy.

Anchorage Small boat or skiff may be anchored off beach on west side of stream.

Tide Stage When Surveyed First half of flood

FISHERY RESOURCES

Commercial Fisheries Coho rearing - pink and chum

Escapement Unknown Available spawning area - 139 M²

Species Composition Unknown

Timing Middle

Schooling areas Unknown, but probably off east side of head in 4² - 6 fathom area.

Shellfish Potential Unknown, but crab fishery may be present in the innermost areas. Clams present on gravel flats.

Sport Fisheries Unknown, possible Dolly Varden, cutthroat with limited coho.

Land Use at Present None

History of Land Use None

Rehabilitation Potential None necessary as windfall in stream acts for pool creation.

Soils Stable at the present time but if land use should occur in upper watershed potential high erosion problems.

GAME RESOURCES

Bear -----	Fish carcasses or bones (old or fresh) on banks, estimate	0
	Number of droppings	0
Geese -----	Number seen on tide flats	0
	Number seen up creek	0
	Number of broods seen	0
Mallards ---	Number seen on tide flats	0
	Number seen up creek	0
	Number of broods seen	0
Widgeons --	Number of broods seen	0
Bald Eagles-	Number seen along creek	0
	Number of nests seen and location	0
Sheik -----	Number seen at mouth of stream	0
Tide flats --	Estimate length along beach	150 yds.
	Estimate depth out from beach	10
	Red grass present on what percent of flats	0

STREAM INV. LOG FORM

Observers: Novak

Date: 5-28-74

Name: East Head of Hidden Bay

Temperature: 60°

Number: 102-20-08

Weather: Clear - calm

Station No.	1																		
Pool Size/Type	1/2																		
Riffle Type	6' w																		
Width - Depth	6" d																		
Pool Riffle Frequency	2																		
Bottom Type (Riffle)	5-4																		
Color/Turbidity	1																		
Velocity	2																		
Flow (C.F.S.)	2																		
Temp. (°F.)	48°																		
pH	6																		
Fry Abundance																			
Benthos Sample No.																			
Higher Plant Class	3																		
Aquatic Veg. Density	2																		
Ident.																			
(1) Mosses	1-2																		
(2) Algae																			

General Remarks (rehab., land use, barriers, log jams, etc.):

As noted on the map, two falls exist with the uppermost serving as a barrier. The water flow becomes subsurface above this barrier therefore, no rehab. is necessary to enhance the fishery potential. Cedar is of commercial grade with hemlock. Small quantities of spruce found on lower watershed.

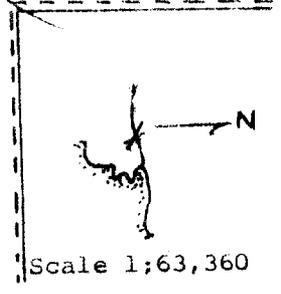
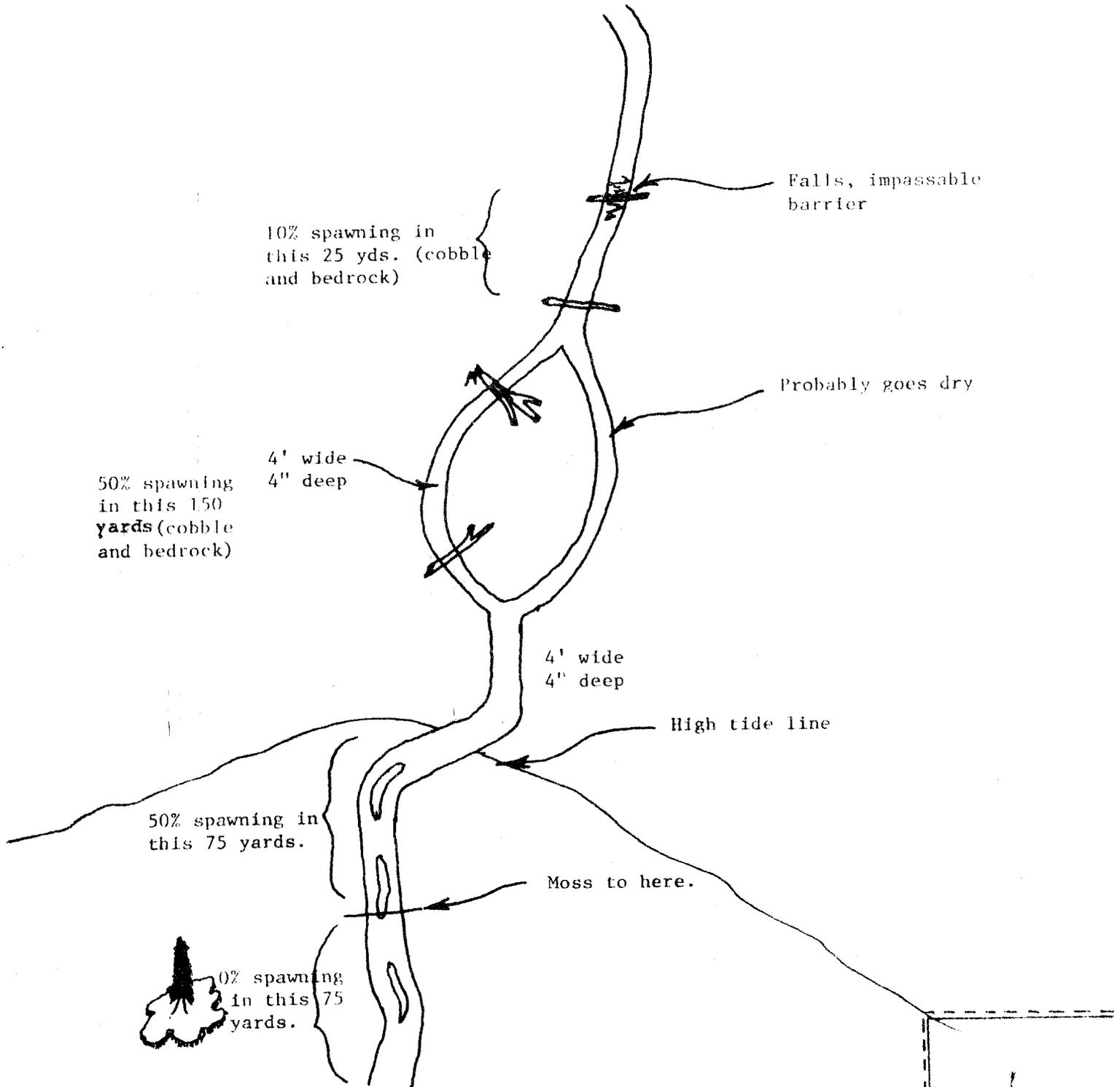
PEAK ESCAPEMENT RECORD

NAME: Hidden Bay, Center Head

STREAM CATALOG NUMBER: 102-20-08

DATE	PINK	CHUM	OTHER SPECIES	REMARKS
Sept. 21, 1930	100	200		Good. (G)
Sept. 5, 1957	2,700	0		Few off mouth (G)

North Shore Hidden Bay
102-20-09
Elton
5-28-74



Catalog No. 102-20-09
 MP No. -
 F No. -
 Work Area Ketchikan
 Watershed Tenikha
 N. 54° 56' 25"
 W. 132° 01' 02"
 Dixon Entrance D-1
 N. Shore of Hidden Bay
 Spring and runoff

Survey Routes Walk in stream
 Aerial Survey Routes Not feasible.
 See Hidden Bay in Coast Pilot
 Tide Stage When Surveyed Flood

FISHERY RESOURCES

Commercial Fisheries No data
 Escapement Available spawning area - I.T. & 1st section - 135 M², 2nd section - 3 M²
 Species Composition No data
 Timing No data
 Schooling areas No data
 Shellfish Potential None (rocky)
 Sport Fisheries No data
 Land Use at Present None
 History of Land Use None
 Rehabilitation Potential None
 Soils Stable to point walked.

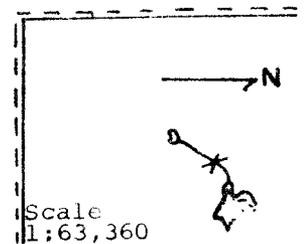
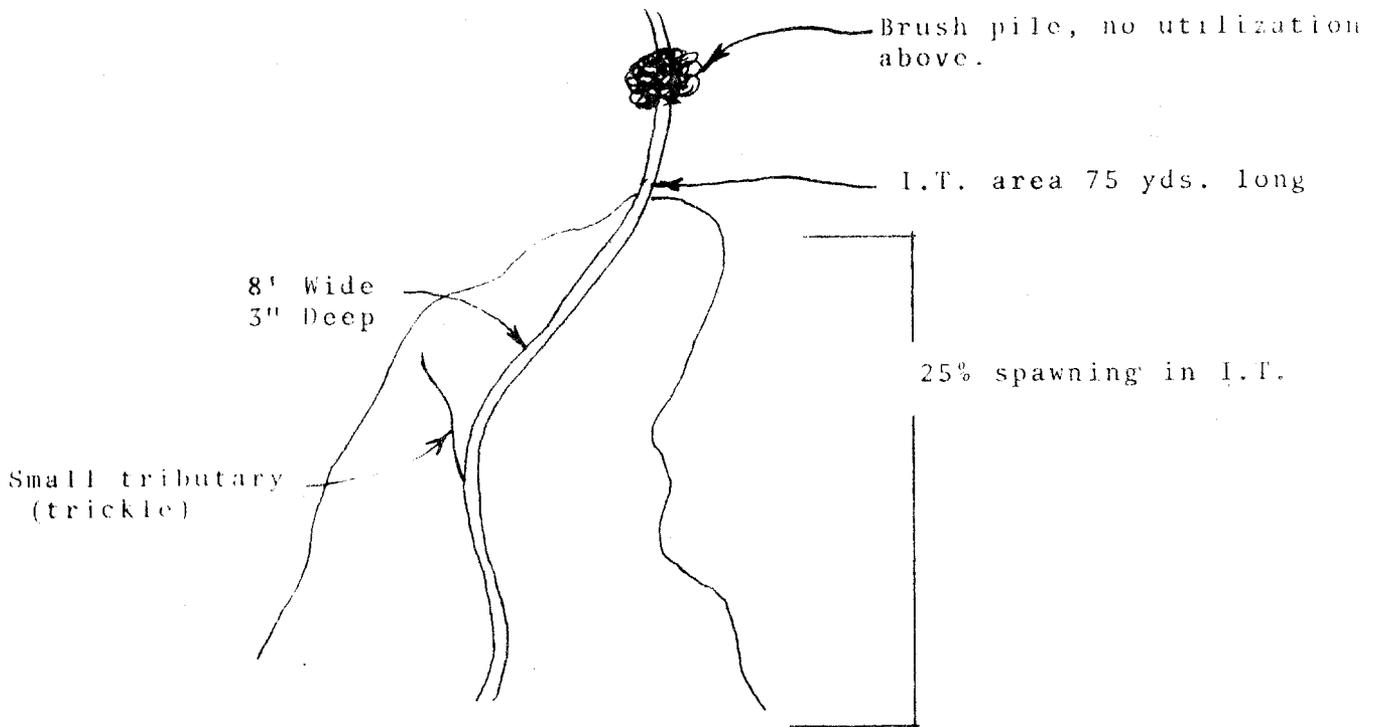
GAME RESOURCES

Bear	Fish carcasses or bones (old or fresh) on banks, estimate	0
	Number of droppings	0
Geese	Number seen on tide flats	0
	Number seen up creek	0
	Number of broods seen	0
Mallards	Number seen on tide flats	0
	Number seen up creek	0
	Number of broods seen	0
Kingfishers	Number of broods seen	0
Bald Papples	Number seen along creek	0
	Number of nests seen and location	0
Seals	Number seen at mouth of stream	0
Tide Flats	Estimate length along beach	-
	Estimate depth out from beach	-
	Eel grass present on what percent of flats	0

102-20-18
Head Ingraham Bay
Downey
May 30, 1974

Not much of a stream and not much potential.
Spawning in I.T. zone at normal or slightly
less than normal flow.

Water temperature 50°



Name _____ Catalog No. 102-20-18
 Latitude 54°57'50" WR No. _____
 Longitude 132°04'10" K No. _____
 Geologic Map No. Dixon Entrance D-1 Work Area Ketchikan
 Location Head of Ingraham Bay Watershed Length _____
 Drainage Area of Watershed _____
 Water Supply WPS Spring and runoff
 Trails & Survey Routes Walk along stream
 Aerial Survey Notes I.T. is only spawning area-can do easily by air.
 Anchorage See Coast Pilot and Navigational Chart
 Tide Stage When Surveyed Low

FISHERY RESOURCES

Commercial Fisheries No data
 Escapement Available spawning area - 42 M²
 Species Composition No data
 Timing No data
 Schooling areas No data
 Shellfish Potential None-rocky
 Sport Fisheries No data
 Land Use at Present None
 History of Land Use None
 Rehabilitation Potential None
 Soils Stable in I.T.

GAME RESOURCES

Hear	-----	Fish carcasses or bones (old or fresh) on banks, estimate	0
		Number of droppings	0
Geese	-----	Number seen on tide flats	0
		Number seen up creek	0
		Number of broods seen	0
Mallards	---	Number seen on tide flats	0
		Number seen up creek	0
		Number of broods seen	0
Mergansers	-	Number of broods seen	0
Bald Eagles	-	Number seen along creek	0
		Number of nests seen and location	0
Seals	-----	Number seen at mouth of stream	0
Tide flats	-	Estimate length along beach	-
		Estimate depth out from beach	-
		% of grass present as what percent of flats	-

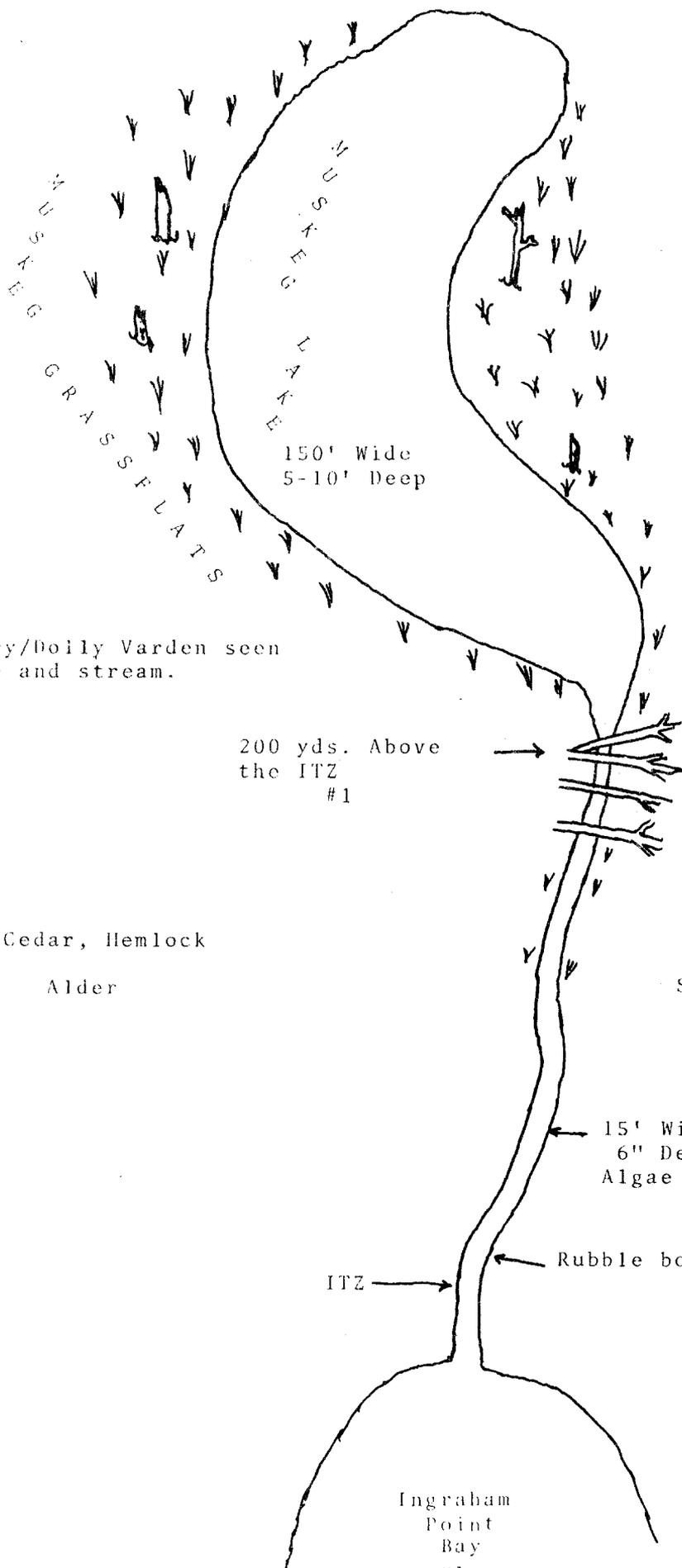
NAME: |

STREAM CATALOG NUMBER: 102-20-18

DATE	PINK	CHUM	OTHER SPECIES	REMARKS
Aug. 26, 1970	N.O.			Vis. poor- cloudy (A)

102-20-19
Ingraham Point Head
Novak
May 30, 1974

H₂O Temp. 58°



An excellent coho rearing stream.

Coho fry/Dolly Varden seen in lake and stream.

200 yds. Above the ITZ #1

50% ASA

Cedar, Hemlock

Alder

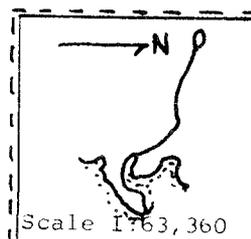
Sluggish Velocity

15' Wide
6" Deep
Algae growth heavy on rock

ITZ → Rubble bottom

Ingraham Point Bay

- 81 -



Name Ingraham Pt. Bay-Head Stream Catalog No. 102-20-19
 Latitude _____ WR No. _____
 Longitude _____ K No. _____
 Geodetic Map NADIX, Ent. D-1 Work Area Ketchikan
 Location _____ Watershed length 1/2 mile
 Drainage Area of Watershed .5 square mile
 Water Supply Type Muskeg lake and runoff with springs.

Trails & Survey Routes Walk up the stream

Aerial Survey Notes Stream is small and will be impossible to survey due to canopy and water coloration.

Anchorage Small skiff may anchor off mouth of stream.

Tide Stage When Surveyed First half of flood.

FISHERY RESOURCES

Commercial Fisheries Coho and possible chums and pink. Sockeye may use this system.

Escapement Unknown

Available spawning area - 418 M²

Species Composition Unknown

Timing Late

Schooling areas Head of the bay off mouth if run occurs.

Shellfish Potential None

Sport Fisheries Dolly Varden, Coho, Cutthroat

Land Use at Present None

History of Land Use None

Rehabilitation Potential None necessary but logjam at lake outlet could be removed.

Soils Stable

GAME RESOURCES

Bear	-----	Fish carcasses or bones (old or fresh) on banks, estimate	0
		Number of droppings	0
Geese	-----	Number seen on tide flats	0
		Number seen up creek	0
		Number of broods seen	0
Mallards	---	Number seen on tide flats	0
		Number seen up creek	0
		Number of broods seen	0
Mergansers	--	Number of broods seen	0
Bald Eagles	-	Number seen along creek	1
		Number of nests seen and location	0
Seals	-----	Number seen at mouth of stream	0
Tide flats	-	Estimate length along beach	0
		Estimate depth out from beach	0
		Eel grass present on what percent of flats	0

STREAM INV. LOG FORM

Observers: Novak

Date: May 30, 1974

Name: Ingraham Point Bay-Head

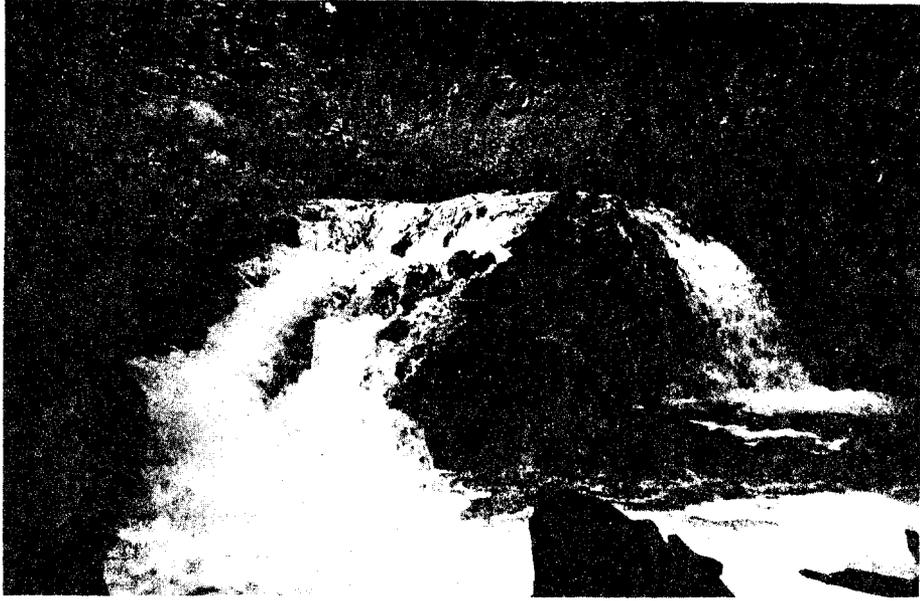
Temperature: 60°

Number: 102-20-19

Weather: Clear

Station No.	1																		
Pool Size/Type	3/2																		
Riffle Type	15'-W																		
Width - Depth	6"-D																		
Pool Riffle Frequency	2																		
Bottom Type (Riffle)	5-4																		
Color/Turbidity	2																		
Velocity	1																		
Flow (C.F.S.)	2																		
Temp _s (°F.)	58°																		
pH	5																		
Fry Abundance	1-8 2-2																		
Benthos Sample No.	-																		
Higher Plant Class	3																		
Aquatic Veg. Density	1																		
Ident.																			
(1) Mosses																			
(2) Algae	2																		

General Remarks (rehab., land use, barriers, log jams, etc.):
 No fish barriers, but a log jam is present near the lake outlet. This stream is atypical of S.E. Alaska types as the muskeg lake is only a few feet above the high tide line. Sockeye may use this system and this will be checked.



Dolomi Creek Falls

ACKNOWLEDGMENTS

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