1984 revision

State of Alaska
Department of Fish and Game
Public Review Nomination for Waters
Important to Anadromous Species

83-590

X Addition ____ Deletion

Name of Waterbody (if known): Tributaries to Blossom River, No. 101-55-10400
Raspberry, Beaver and North Creek

Location:

Anadromous Waters Catalog Volume and Number Southeastern, Vol. 1

USGS 1:63,360 Quadrangle Ketchikan B-2 4

or 1:250,000 (if 1:63,360 not available) _____

Species	Date(s) Observed	Stage(s) (Spawning, Rearing, Migration)
Coho	* See Comments	Spawning, Rearing
Chum	"	Spawning
Steelhead	"	Spawning Rearing

Comments: Please provide any clarifying information. Also, please include a map of the area identifying the stream reach. This can be a copy of the map from the Anadromous Waters Atlas.

* Studies conducted by VTN, Consultants for U.S. Borax have identified portions of these streams as fish streams: Raspberry Creek lower .4 km, Beaver Creek - lower .3 km and North Creek - Lower .8 km. Documented fish uses from Draft Quartz Hill Molybdenum Project Mine Development EIS, U.S.D.A. Forest Service are attached

Drafted Rev 1/84

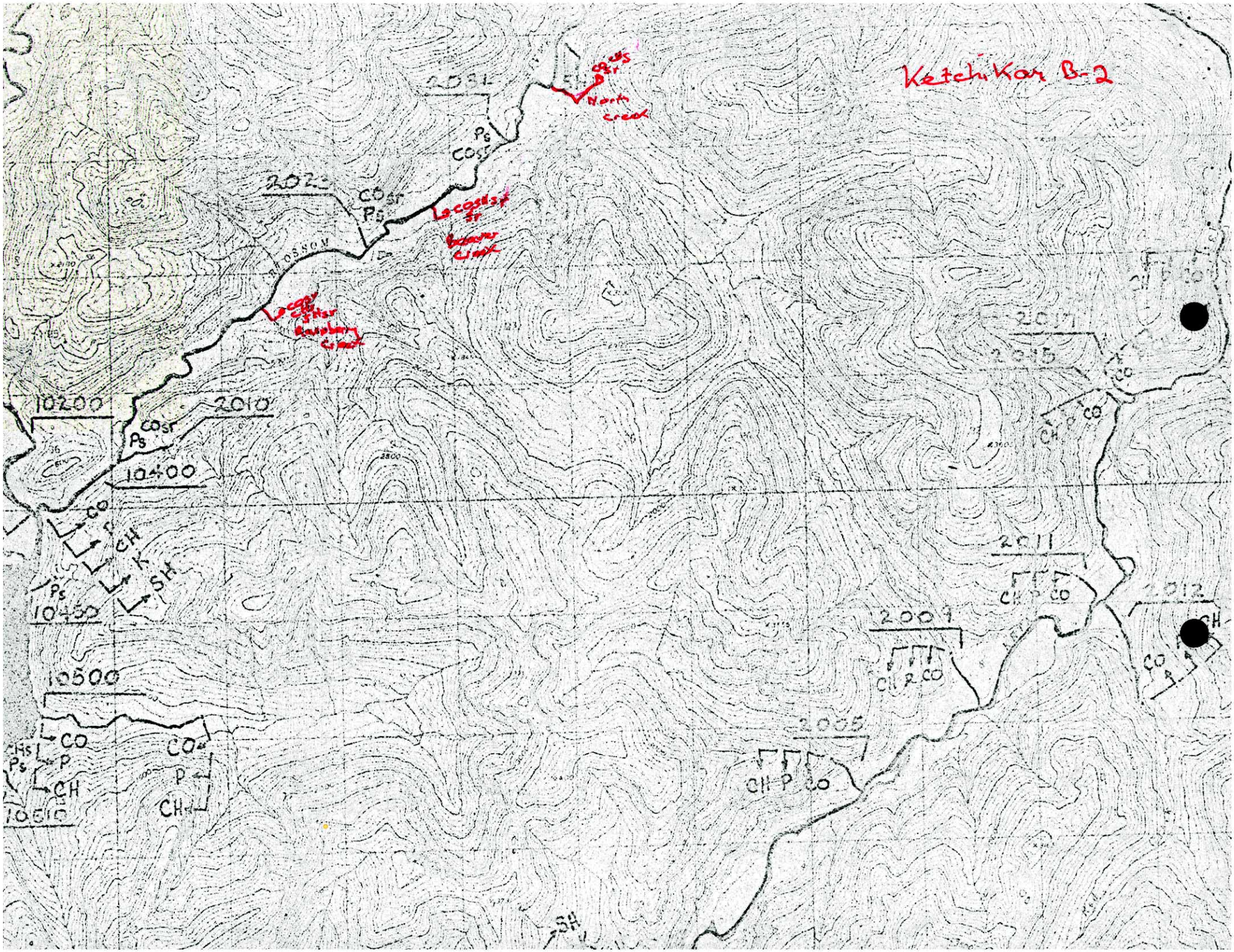
Name of Observer (please print) VTN - Consultants for U.S. Borax

Date: 12/8/83 Signature: Donald A. Comeleo

CMY 12/29/83

Address: Alaska Dept. of Fish and Game, Habitat

Ketchikan


Ketchikan B-2
North creek
Beaver creek
Raspberry creek
2031
2023
2010
2017
2015
2011
2012
2009
2005
10200
10400
10450
10500
10510
CO
P
CH
K
SH
Ps
CO
P
CH
CO
P
CH
CH P CO
CH P CO
CH P CO
CO
CH
CO
CH
SH

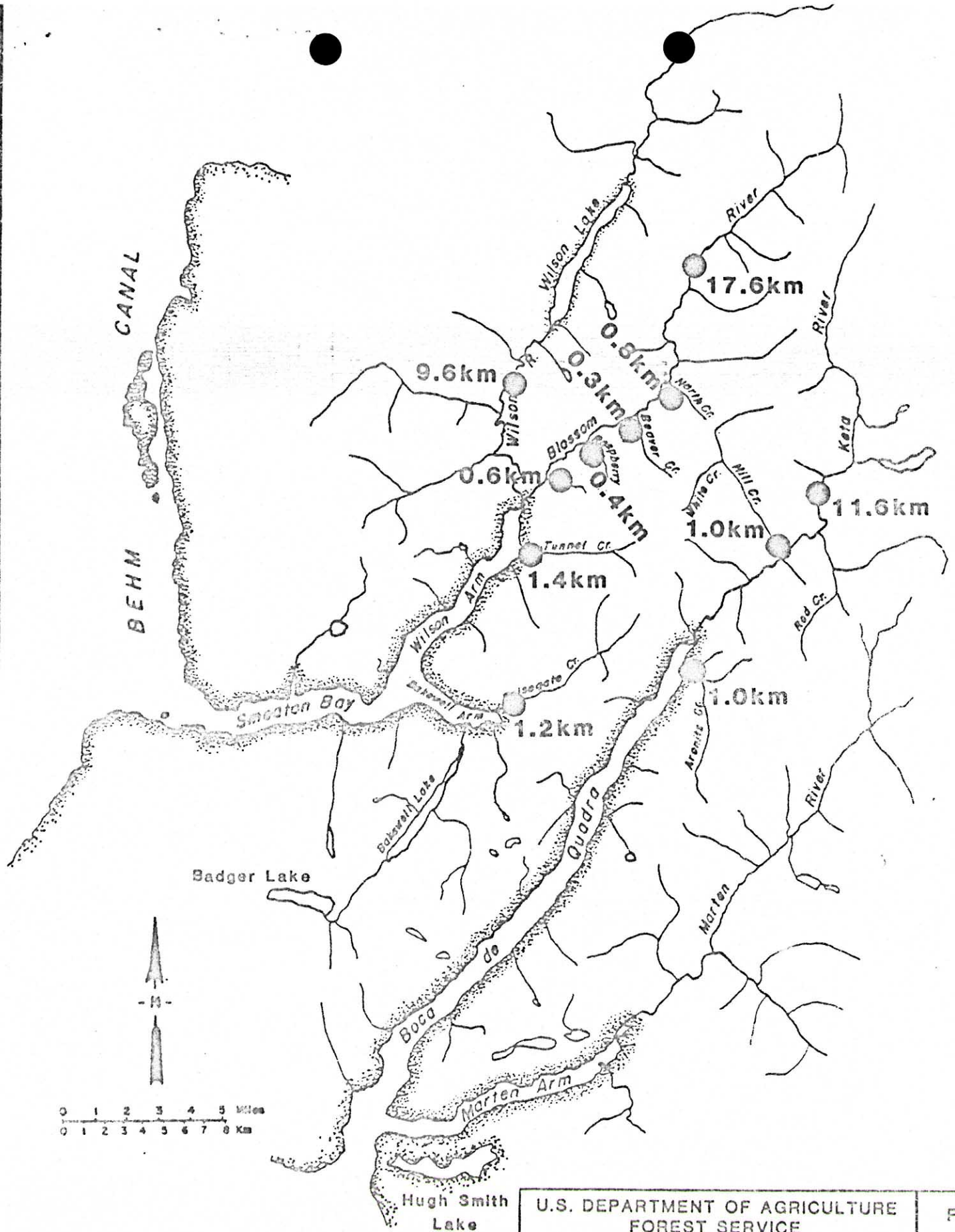
APPENDIX G

TABLE 5-1

JUVENILE SALMONID ABUNDANCE, ESTIMATED POPULATION SIZE, AND ESTIMATED ADULT RETURN FOR TRIBUTARY CREEKS IN THE VICINITY OF QUARTZ HILL

	Juvenile Salmonids in Sample Reach									Juvenile and Adult Salmonids in Entire Stream								
	Reach Length[a] (m)	Number Captured[b]				Population Estimate[c]				Stream Length[d] (m)	Juvenile Population Estimate[e]				Estimated Adult Return[f]			
		CO[g]	CH	DV	ST	CO	CH	DV	ST		CO	CH	DV	ST	CO	CH	DV	ST
North Creek	100	15	1	4	-	30	2	8	-	800	240	16	64	-	16	1	2	-
Beaver Creek	85	35	-	25	1	70	-	50	2	320	263	-	188	8	17	-	5	1
Raspberry Creek	75	51	16	105	1	102	32	210	2	400	544	171	1120	11	35	10	28	1
No. 3 Creek[h]	-	-	-	-	-	-	-	-	-	640	870	273	1792	17	57	16	45	2
Tunnel Creek	75	68	13	129	-	136	26	258	-	1400	2539	485	4816	-	166	29	121	-
White Creek	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Hill Creek	75	60	21	222	-	120	42	444	-	1000	1600	560	5920	-	104	34	149	-
Aronitz Creek	125	15	1	4	7	30	2	8	14	1000	240	16	64	112	16	1	2	12

a/ Anderson (1983b).
b/ VTN (1983c, Table 1-2).
c/ Based on capture efficiency of .51 computed from VTN (1980e, Table 3.2-5) for Hill Creek
d/ Length of anadromous habitat from either VTN (1982r, Table 3-1) or Benda (1983c).
e/ Equals: Stream length/sample reach length x sample population estimate.
f/ - Coho fingerling to adult survival average of 6.53 percent, computed from Gray et al. (1978, p. 21).
- Chinook smolt to adult survival average of 6.0 percent, from Kissner (1983).
- Dolly Varden juvenile to adult survival average of 2.5 percent, computed from fry and smolt survival data in Armstrong (1983).
- Steelhead smolt to adult survival average of 11 percent, from Jones (1983).
g/ CO = coho, CH = chinook, DV = Dolly Varden, ST = steelhead.
h/ Assumed equal to densities measured in Raspberry Creek.



○ -Barrier to Fish Passage

km - Distance from stream mouth to barrier

U.S. DEPARTMENT OF AGRICULTURE
FOREST SERVICE
QUARTZ HILL MOLYBDENUM PROJECT
MINE DEVELOPMENT EIS

PROJECT AREA RIVERS AND FJORDS

SOURCE envirosphere DATE DEC. 83

FIGURE
3-14

envirosphere company

83-597

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

KETCHIKAN (B-2) QUADRANGLE
ALASKA
1:63 360 SERIES (TOPOGRAPHIC)

KETCHIKAN C-3 | KETCHIKAN C-2 | KETCHIKAN C-1

130°40' | 130°30' | 130°20'
55°30'
615 1000m. N.
6150mN
396mE
414mE
36' R. 98 E.
R. 97 E.
R. 98 E.
R. 99 E.
25
30
3 320 000 FEET
1 350 000 FEET

Wilson Lake
Seaplane Landing Area
Cabin
WILSON ARM
BLOSSOM RIVER
KETCHIKAN B-3
KETCHIKAN B-1

2005
2003
2017
2015
2011
2012
2009
10200
10400
10500
10300
10450
10600
10700
10780
10650
0010

SH K CH P CO

PCO SR
PCH SR
PK

1 2 3 4 5 6

101-55
101-30
101-30-10600

Bakewell Fishway
Proposed for
major reconstruction
1983 USFS +
ADFG

Bakewell Lake

BOCA DE QUADRA

Upper points document limits of fish surveys and usually not the extent of fish habitat.

DK
10/81

6124mN
396mE
414mE
55°15'
130°40'
130°20'
4 1 1000m. E.
R. 97 E.
R. 98 E.
R. 99 E.
30 (KETCHIKAN A-2)
KETCHIKAN A-3
KETCHIKAN A-1

Mapped, edited, and published by the Geological Survey

Control by USGS and USC&GS

Topography by photogrammetric methods from aerial photographs taken 1948, field annotated 1955. Map not field checked

Selected hydrographic data compiled from USC&GS Charts 8053 (1942), 8075 (1956), 8078 (1943), and 8102 (1: 229 376 scale) (1955). This information is not intended for navigational purposes

Universal Transverse Mercator projection, 1927 North American datum
10,000 foot grid based on Alaska coordinate system, zone 1
1000-meter Universal Transverse Mercator grid ticks, zone 9, shown in blue

Land lines represent unsurveyed and unmarked locations predetermined by the State of Alaska, Division of Lands
Copper River Meridian

Entire land area is within the Tongass National Forest

To place on the predicted North American Datum 1983 move the projection lines 35 meter north and 107 meters east

There may be private inholdings within the boundaries of the Misty Fiords National Monument shown on this map.

APPROXIMATE MEAN DECLINATION, 1955

SCALE 1:63360
3 0 1 2 3 4 MILES
3000 0 3000 6000 9000 12000 15000 18000 21000 FEET
1 5 0 1 2 3 4 5 KILOMETERS

CONTOUR INTERVAL 100 FEET
NATIONAL GEODETIC VERTICAL DATUM OF 1929
DEPTH CURVES IN FEET - DATUM IS MEAN LOWER LOW WATER
SHORELINE SHOWN REPRESENTS THE APPROXIMATE LINE OF MEAN HIGH WATER
THE MEAN RANGE OF TIDE IS APPROXIMATELY 13 FEET

FOR SALE BY U. S. GEOLOGICAL SURVEY
FAIRBANKS, ALASKA 99701, DENVER, COLORADO 80225, OR RESTON, VIRGINIA 22092
A FOLDER DESCRIBING TOPOGRAPHIC MAPS AND SYMBOLS IS AVAILABLE ON REQUEST

ROAD CLASSIFICATION
Trails

QUADRANGLE LOCATION

KETCHIKAN (B-2), ALASKA
N5515-W13020/15X20
1955
MINOR REVISIONS 1981

MAP MUST 9/16/81

MAP NO. B-2 OF 4

LEGEND

		Subscript
S	Sockeye Salmon	s - Known Spawning
K	King Salmon	r - Rearing
CO	Coho Salmon	* m - Migration
P	Pink Salmon	
CH	Chum Salmon	* Migration upstream is assumed for stream reaches where anadromous fish occur.
SH	Steelhead Trout	
DV	Dolly Varden	
AC	Arctic Char	
SF	Sheefish	
W	Whitefish	
C	Cutthroat Trout	

COMP. DRC
DRAWN
REVISED DRC
APPROVED ERL
DATE 4-82
FILE NO.

SCALE
1" = 1 MILE
1 : 63,360

PROJ. TITLE
ANADROMOUS STREAM CATALOG
ANADROMOUS WATERS ARE LISTED PURSUANT TO AS 16.05.870 (a)

MAP TITLE
KETCHIKAN B-2

STATE OF ALASKA
DEPARTMENT OF FISH AND GAME
habitat protection division
JUNEAU, ALASKA

BY	DATE
K. Francisco	6/3/81
RD	1/1983
REVISIONS	