84-345

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

✓ Addition ____ Deletion

Name of Waterbody (if known): CALDER CREEK

Location: T.65 S R.77E Sec. 29, 30

Anadromous Waters Catalog Volume and Number 105-42-10050

USGS 1:63,360 Quadrangle PETERSBURG A-5

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

Species	Date(s) Observed	Stage(s) (Spawning, Rearing, Migration)
COHO (CH)	July 15, 1980	Spawn/Rear

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.

Sharp increase in gradient (to 30%) marks end of habitat.

Trib. to 105-42-10050-2003

Unit 58-11, 7/18/80

A. Kluthe / B. Kluthe

refer to map

Drafted Jew 2/84

Don Lowdin, Habitat Biologist, Ketchikan

Name of Observer (please print) Bob Metzger

Date: 12/22/83 Signature: Bob Metzger

Address: USFS, Thorne Bay District
Ketchikan, AK

TMeed

CMW 2/10/86

cc: Joe Thompson
Al Young
AD F&G
Jim Gruber

File Copy

FISH STREAM SURVEY

DATE: July 15, 1980

CAMP El Cap - Calder Creek Drainage (UNIT) 58-11

STREAM CATALOGUE # 105-42-005 ROAD 5720

QUAD MAP Pet. A5 T R SECT

CHICK MAP 5 of 55 T 65S R 77E SECT 29

SPECIES PRESENT	STAGE OF DEVELOPMENT
Coho	fry
Dolly Varden	fry, adult
Dog salmon	old jaws along stream bank

TYPE OF FISH HABITAT

SALMON REARING	(EXCELLENT)	GOOD	FAIR	SQ YDS	1/2 mile
SALMON SPAWNING	(EXCELLENT)	GOOD	FAIR	SQ YDS	
RESIDENT REARING	(EXCELLENT)	GOOD	FAIR	SQ YDS	
RESIDENT SPAWNING	(EXCELLENT)	GOOD	FAIR	SQ YDS	

IS FUTURE FISH HABITAT ENHANCEMENT POSSIBLE? YES ____ NO ✓

IF SO DESCRIBE:

	YES	NO
FISH PRESENT ABOVE ROAD CROSSING:	✓	
BELOW ROAD CROSSING:	✓	
WITHIN UNIT BOUNDARY:	✓	
BELOW UNIT BOUNDARY:	✓	

FISH STREAM(S) INTERSECTION(S) MARKED WITH METAL TAGS: ROAD ____ UNIT ✓

FISH STREAM(S) FLAGGED: BLUE/WHITE ✓ ORANGE/WHITE ____

FISH STREAMS TRAVERSED: YES ____ NO ✓

TRAVERSE NOTES ATTACHED: YES ____ NO ✓

IS ADDITIONAL PARAMETER INFORMATION NECESSARY? YES ____ NO ✓

IF SO DESCRIBE:

STREAM TEMP.:

METHODS USED TO DETERMINE PRESENCE OF FISH: observation + electroshocker

STREAM #	DATE	#FISH	SPECIES	LENGTH	GEAR	TIME
1	7/15	Hundreds	Coho	2"	observed	2 hrs
		5	Coho	2"	shocked	15 min
		1	Dolly Varden	1½"		
		1	Dolly Varden	3"		

PERTINENT WILDLIFE INFORMATION: active beaver dam, sighted immata bald eagle, abundant bear sign + observed bear.

COMMENTS:

Excellent salmon spawn + rear habitat

SURVEY CREW MEMBERS:	SIGNATURE	DATE
Beth Kluthe	Beth Kluthe	7/18/80
Allen Kluthe	Al Kluthe	7/18/80

REPORT REVIEWED BY: Kathleen M. Lucid — 7/21/80
SIGNATURE — TITLE — DATE

RECOMMENDATIONS:

see attached report!

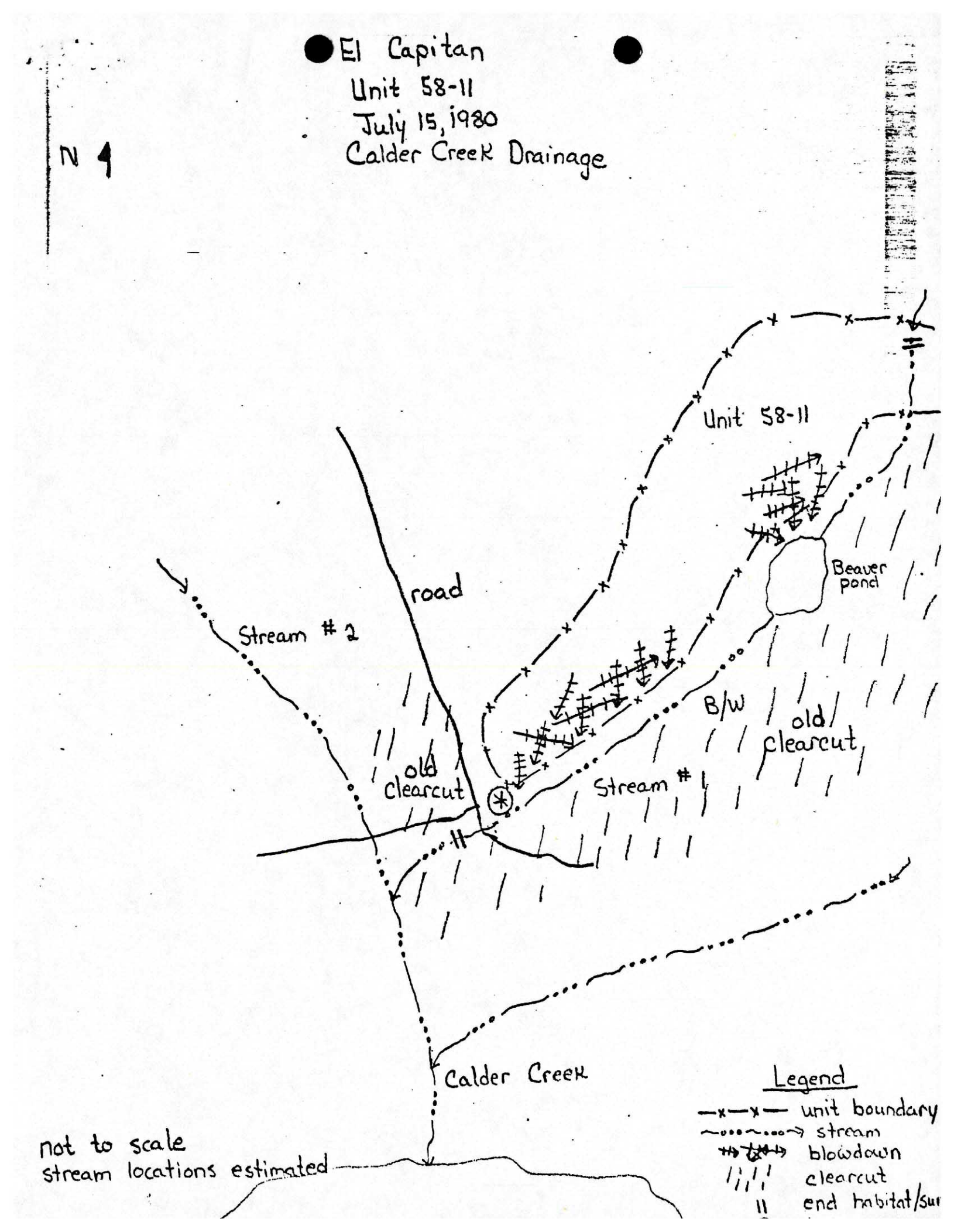
El Capitan
Unit 58-11
July 15, 1980

Stream # 1

Stream # 1 borders the eastern boundary of Unit 58-11 for the majority of its length. Stream # 1 has an average width of 20-25 feet but reached 40-50' wide in places. At this time of low water the stream was 6-12 inches deep with pools of 1-3 feet deep. The substrate is primarily gravels with sm-med. cobbles appearing in the stream's upper reaches. There is an active beaver dam on this stream that is 1-3' high and effectively blocks stream flow to form a beaver pond approximately 1/3 of an acre in size. The gradient is very gradual for the most part and the flow is moderate. There are numerous pools and riffles along the entire length of the stream.

This stream is <u>extremely excellent</u> spawning and rearing habitat for salmon and resident populations. Hundreds of 2" Coho fry were readily observable so shocking was held to a minimum. Fish

shocked include: 5 2" Coho, 1 3" Dolly Varden and 1 1½" Dolly. In addition, old dog salmon jaws were found on the streams banks. Stream #1 was flagged blue/white from near the SE corner of the unit upstream for approximately ½ mile to the end of habitat (only 50 feet from upper NE corner of unit). Numerous Coho fry were observed in the beaver pond. The beaver 'dam' does not appear to be a barrier to rearing although it may be a barrier to spawning. End of habitat was marked by a sharp increase of gradient (30% +) and a decline in stream width to only 4 feet. Old blue/white flagging from a previous survey was encountered at the beaver pond and continued for 150' (to the end of habitat). It appears a stream clean-up crew was on this stream previously. This stream is in excellent condition and the old logging activity on its eastern side does not appear to have been detrimental to the stream. The stream was tagged at the SE corner of the unit boundary.


El Capitan
Unit 58-11
July 15, 1980
Calder Creek Drainage
N
Unit 58-11
road
Stream # 2
Beaver pond
B/W
old clearcut
old clearcut
Stream # 1
Calder Creek
not to scale
stream locations estimated
Legend
unit boundary
stream
blowdown
clearcut
end habitat/su

DAVE DOLVATTLE
cc: JOE THOMPSON
ADF&G
BY: G. HOPPER
APPROVED: K. LUCICH
9/12/80

SUPPLEMENT FISH STREAM REPORT
Road 5720
58-11 CAULDER CREEK 105-42-005
PETER A-5 T65S R7E Sect 15.

This stream was previously surveyed by Allen and Beth Kluthe 7-15-80. Note the recommendations in this report.

The main concern is with taking the blowdown already present in the stream. There are a few large merchantable spruce in the stream. These trees should only be removed if it is certain that no damage will be done to the stream. This includes scouring, root wad introduction, bank damage, siltation, or breakage. Apparently a standing skyline is planned and full suspension is possible, however, some damage seems inevitable during removal of some of these trees. Perhaps double chokers or other appropriate logging methods could be used to stabilize & control these logs. No damage to the stream should be incurred. If these trees cannot be removed safely they should remain in the stream.

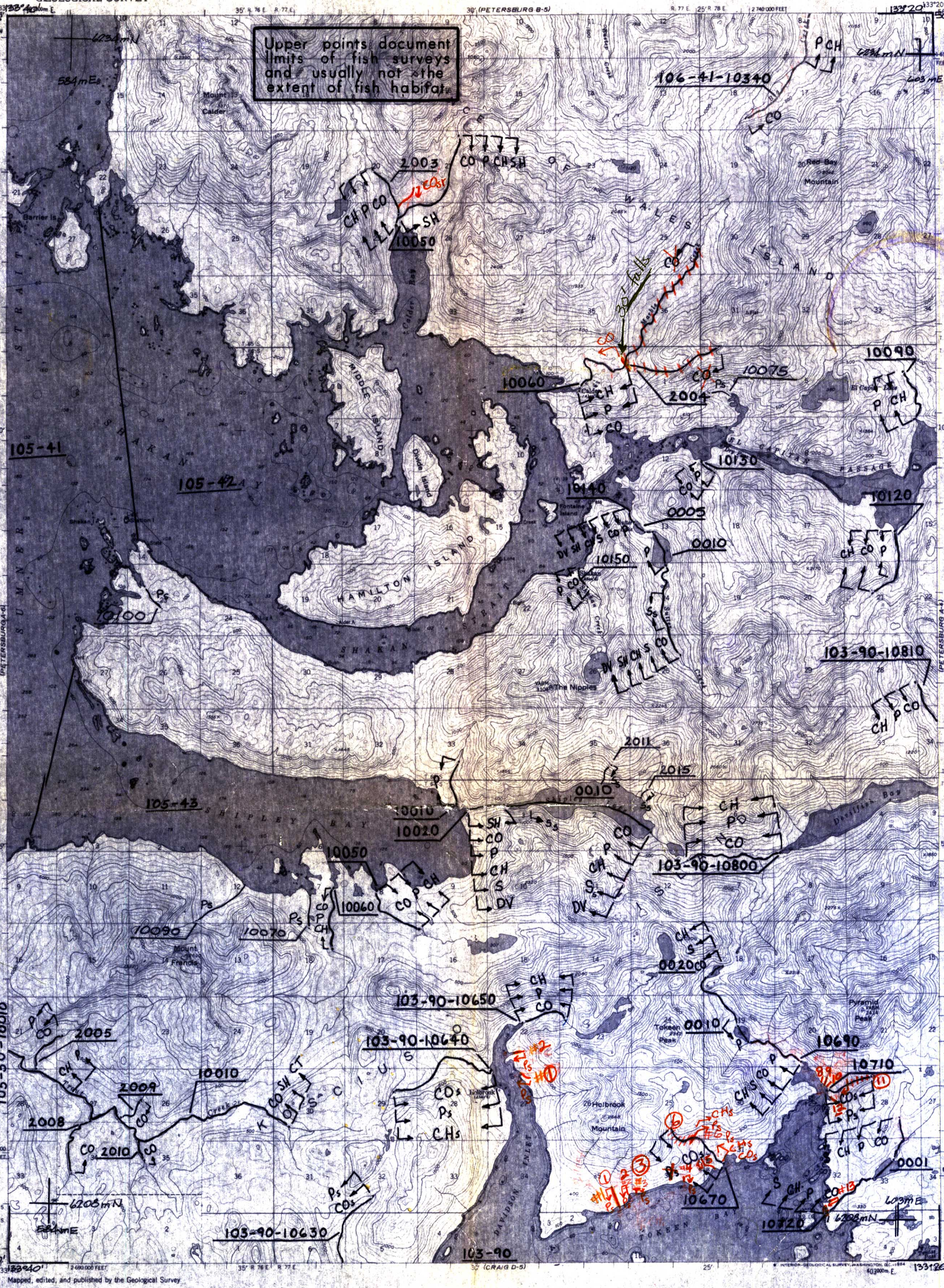
UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

FINAL

PETERSBURG (A-5) QUADRANGLE
ALASKA
1:63 360 SERIES (TOPOGRAPHIC)

84-352

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



Mapped, edited, and published by the Geological Survey

Control by USC&GS

Topography by photogrammetric methods from aerial photographs taken 1948. Field annotated 1949. Map not field checked

Selected hydrographic data compiled from USC&GS Charts 8120(1951), 8171 (1949), 8172 (1951), and 8201 (1951) (1:217,828 scale) 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 8, shown in blue

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

Swamps, as portrayed, indicate only the wetter areas, usually of low relief, as interpreted from aerial photographs

Entire land area is within the Tongass National Forest

Lake elevations are unchecked

APPROXIMATE MEAN DECLINATION, 1949

CONTOUR INTERVAL 100 FEET
DATUM IS MEAN SEA LEVEL
DEPTH CURVES AND SOUNDINGS IN FEET—DATUM IS MEAN LOWER LOW WATER
SHORELINE SHOWN REPRESENTS THE APPROXIMATE LINE OF MEAN HIGH WATER
THE AVERAGE RANGE OF TIDE IS APPROXIMATELY 9 FEET

FOR SALE BY U. S. GEOLOGICAL SURVEY
FAIRBANKS, ALASKA DENVER 25, COLORADO WASHINGTON 25, D. C.
A FOLDER DESCRIBING TOPOGRAPHIC MAPS AND SYMBOLS IS AVAILABLE ON REQUEST

ROAD CLASSIFICATION
No roads or trails in this area

QUADRANGLE LOCATION

PETERSBURG (A-5), ALASKA
N5600—W13320/15X20

1949
MINOR REVISIONS 1964

SCALE 1:63 360

MAP NO. A-5 OF 6

LEGEND

		Subscript
S	Sockeye Salmon	s- Known Spawning
K	King Salmon	r- Rearing
CO	Coho Salmon	* m-Migration
P	Pink Salmon	
CH	Chum Salmon	
SH	Steelhead Trout	
DV	Dolly Varden	
AC	Arctic Char	
SF	Sheefish	
W	Whitefish	
C	Cutthroat Trout	

*Migration upstream is assumed for stream reaches where anadromous fish occur.

COMP. DRC
DRAWN CB
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
PETERSBURG A-5

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

BY	DATE
BB	3/83
REVISIONS	

DK 10/81

KF 6/2/81

MDUSES 9/16/81