

AWC Volume SE SC SW W AR IN USGS Quad KENAI A-4

Anadromous Water Catalog Number of Waterway 244-20-10090

Name of Waterway _____ USGS name _____ Local name _____

Addition Deletion _____ Correction _____ Backup Information _____

For Office Use

| | | |
|--|---------------------|-----------------|
| Nomination # <u>95 308</u> | <u>[Signature]</u> | <u>1/12/95</u> |
| Revision Year: <u>'95</u> | Regional Supervisor | Date |
| Revision to: Atlas _____ Catalog _____ | <u>[Signature]</u> | <u>12/14/94</u> |
| Both <input checked="" type="checkbox"/> | <u>[Signature]</u> | <u>12/23/94</u> |
| Revision Code: <u>A-1</u> | Drafted | Date |

OBSERVATION INFORMATION

| Species | Date(s) Observed | Spawning | Rearing | Migration | Anadromous |
|-------------|------------------|----------|-------------------------------------|-----------|-------------------------------------|
| <u>COHO</u> | <u>7/12/94</u> | | <input checked="" type="checkbox"/> | | <input checked="" type="checkbox"/> |
| | | | | | |
| | | | | | |
| | | | | | |

IMPORTANT: Provide all supporting documentation that this water body is important for the spawning, rearing or migration of anadromous fish, including: number of fish and life stages observed; sampling methods, sampling duration and area sampled; copies of field notes; etc. Attach a copy of a map showing location of mouth and observed upper extent of each species, as well as any other information such as: specific stream reaches observed as spawning or rearing habitat; locations, types, and heights of any barriers; etc.

Comments: SEE ATTACHED MAP, FIELD SURVEY FORM & MEMORANDUM. JUVENILE COHO OF AT LEAST 2 YEAR CLASSES WERE OBSERVED & CAPTURED UPSTREAM OF A POORLY CONSTRUCTED LOGGING ROAD (WINTER ROAD).

STATION 1-A-5

Name of Observer (please print) MICHAEL WIEDMER
 Date: _____ Signature: [Signature]
 Address: ADFG, HABITAT & RESTORATION DIVISION
REGION II, ANCHORAGE

This certifies that in my best professional judgement and belief the above information is evidence that this waterbody should be included in or deleted from the Catalog of Waters Important for Spawning, Rearing or Migration of Anadromous Fishes per AS 16.05.870.

Signature of Area Biologist: _____

FISH HABITAT SURVEY FORM

Rev. 7/30/83

STATION NO: 1-A-5 DATE: 7/12/94 TIME: 1:50

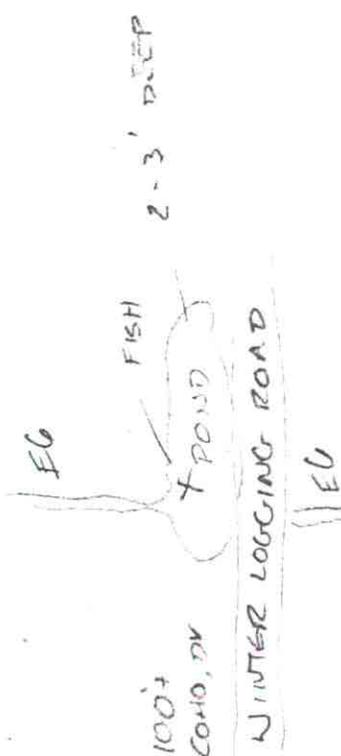
OBSERVERS: TL MW TEAM: A B STREAM NO: _____

WEATHER: STREAM STAGE: _____ PRECIP: _____
 CLEAR HIGH IR
 PART. CLDY. MEDIUM IR
 CLOUDY LOW _____

TEMP: AIR _____ WATER 12 GRADIENT: <1 %

WATER CLARITY: SUBSTRATE: _____ STREAM DIMENSIONS: _____
SEE BELOW
 CLEAR MUD _____ WIDTH _____
 STAINED SAND _____ DEPTH, LEFT BANK _____
 TURBID GRAVEL _____ DEPTH, RIGHT BANK _____
 MUDDY COBBLE _____ DEPTH, MID-CHANNEL _____
 MURKY BLDG/B-ROCK _____ VELOCITY: None Slow Medium Fast
 fpe 0 0-1 1-3 3+

CHANNEL DIAGRAM (INCLUDE BANK & STREAM FEATURES, VEGETATION):

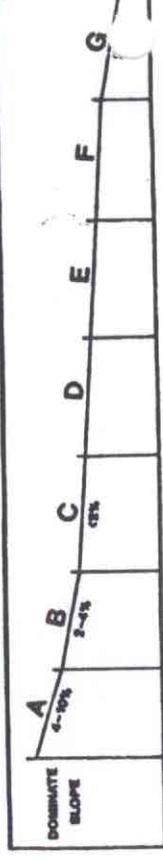
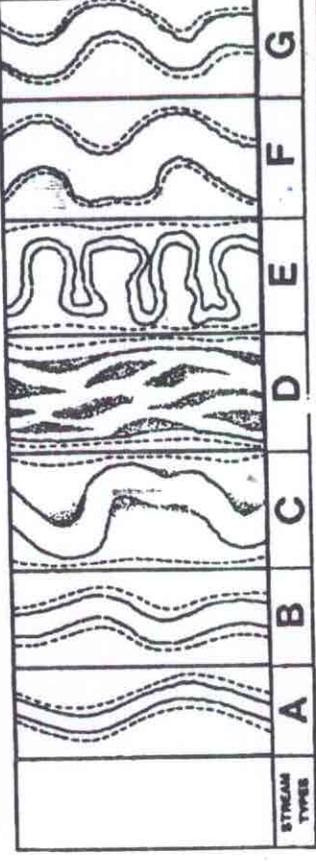


ROLL NO. _____ FRAME NOS. _____

CIRCLE DOMINANT CHANNEL TYPE: T POND

GENERALIZED VISUAL DECLINATION OF MAJOR STREAM TYPES

| Stream Type | A | B | C | D | E | F | G |
|-------------|-------|---------|---------|---------|--------|---------|---------|
| 1 | | | | | | | |
| 2 | | | | | | | |
| 3 | | | | | | | |
| 4 | | | | | | | |
| 5 | | | | | | | |
| 6 | | | | | | | |
| GRAND | 1-1.4 | 1.5-2.2 | 2.3-3.2 | 3.3-5.0 | 5.1-10 | 10.1-20 | 20.1-40 |
| W/B RATIO | < 1.2 | > 1.2 | > 1.2 | > 5.0 | > 12 | > 12 | > 12 |
| GRAND | 1-1.4 | 1.5-2.2 | 2.3-3.2 | 3.3-5.0 | 5.1-10 | 10.1-20 | 20.1-40 |



| | | | | | | | | |
|----|----|----|----|----|----|----|----|-----|
| CO | 77 | 77 | 73 | 63 | 78 | 63 | 74 | 104 |
| K | | | | | | | | |
| S | | | | | | | | |
| P | | | | | | | | |
| CH | | | | | | | | |
| DV | 69 | | | | | | | |

SUB 40 TIME: 55 AREA: 10' EFFIC: 45 %

OBSERVATIONS:

244-30-100

2040

EXTEND STREAM #
244-20-10090
w/ COR

COR
1-A-1

1-A-5
COR

COR
244-30-10050-2024
COR?

1-A-4

K5C

Byrd Lake

DV
SH
CO₂

MOOSE
COW &
CALF
1-A-3

44-20-10090

AERIAL & GROUND
OBSERVATIONS
(NO SAMPLING)

NO DISCRETE
CHANNEL

BROWN
BEAR
SOW &
CUB

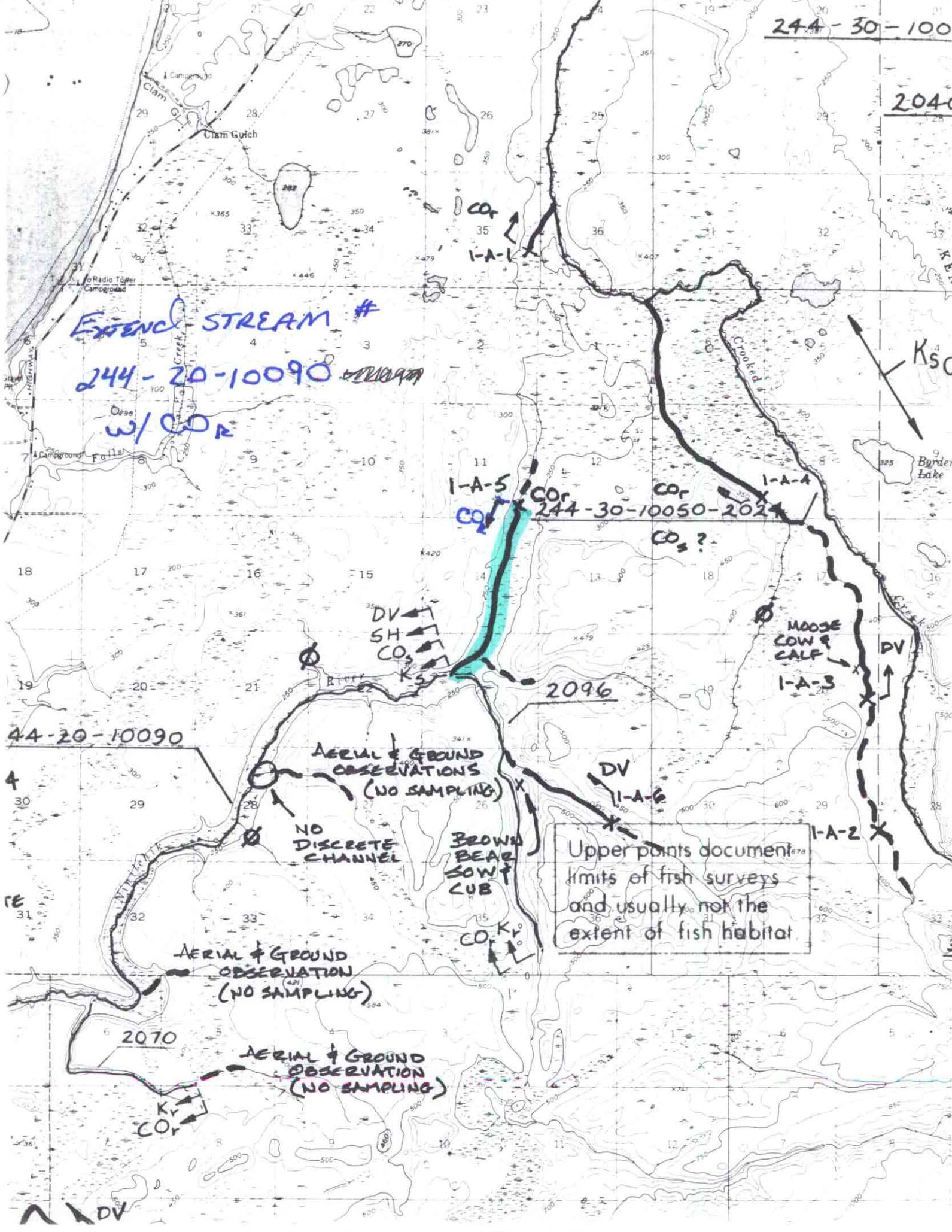
Upper points document
limits of fish surveys
and usually not the
extent of fish habitat.

AERIAL & GROUND
OBSERVATION
(NO SAMPLING)

AERIAL & GROUND
OBSERVATION
(NO SAMPLING)

K_v
COR

DV



MEMORANDUM

State of Alaska

DEPARTMENT OF FISH & GAME

TO: Ed Weiss
Habitat Biologist
Region II
Habitat and Restoration
Division
Department of Fish and Game

DATE: September 23, 1994

TELEPHONE NO.: 267-2284

FAX NO.: 349-1723

FROM: Michael Wiedmer
Habitat Biologist
Region II
Habitat and Restoration Division
Department of Fish and Game

M. Wiedmer

SUBJECT: Fish Habitat Survey;
Ninilchik River
Drainage

On July 12 and 13, 1994, Tom Liebscher and I (joined by Les Christian on July 13 only) conducted a helicopter-supported fish habitat survey of portions of the Ninilchik River and Crooked Creek drainages. Tom Liebscher, a U. S. Forest Service employee in the State and Private Forestry section, is working with the Department of Natural Resources, Division of Forestry (DOF) Kenai/Kodiak Area Office in the preparation of pre-harvest silvicultural prescriptions for the Falls Creek Timber Sale. Les Christian is a DOF employee also working on the Falls Creek Timber Sale. The survey was conducted to more accurately delineate and describe fish habitat within the proposed Falls Creek Timber Sale and along potential access routes.

The survey was conducted with an Evergreen Helicopters' Bell 206 on fire contract to the DOF. With a Smith-Root battery-powered backpack electrofisher and cured salmon roe baited minnow traps, we sampled 11 stations on 9 streams. The survey identified 4 previously undocumented anadromous fish streams and established the presence of resident fish in 3 streams and extended known (resident) fish habitat in 3 additional streams (in 1 stream, the lower reach was identified as anadromous fish habitat and the upper reach was identified as resident fish habitat).

Sampling sites were located near the probable upstream limit of anadromous or resident fish distribution as determined by aerial observations. However, the availability of helicopter landing sites and the limited time available for the survey frequently prevented the survey crew from sampling the actual upper limit of fish distribution. After sampling and determining fish presence, each stream was aerially surveyed upstream of the sampling point to identify blockages to fish migration or changes in fish habitat. On the attached map, the known distribution of anadromous or resident fish is identified by a solid line. The probable distribution of anadromous or resident fish is identified by a dashed line. As a result of the dry summer, water levels were slightly lower than normal. The general area was previously

surveyed by the ADF&G in 1988¹.

In addition to site sampling, at low altitudes and slow flight speeds, we aeriually surveyed portions of the drainage to determine the potential distribution of anadromous and resident fish. We identified segments of 8 streams that may support anadromous fish (see attached maps). We also identified segments of 5 streams that may support resident fish. Future surveys should focus on these streams. The low-level aerial survey also determined that 4 streams that appear on the USGS 1:63,360 maps probably do not support anadromous or resident fish (see attached maps).

Attachments (2 maps, 3 photograph folders, 11 fish habitat survey forms, Seaberg memo, and 4 anadromous fish stream nomination forms)

¹Seaberg to McKay, October 17, 1988 ADF&G memorandum (attached).