

ANADROMOUS WATERS CATALOG/ATLAS
CORRECTION FORM

CORRECTION TO: ATLAS X CATALOG X

REGION: SOUTH CENTRAL

MAP: SEWARD D-6

WATERWAY NUMBER: 247-60-10248

DESCRIBE CHANGE(S): PER THE ATTACHED NOMINATION, FIELD

SURVEY REPORTS, AND AERIAL PHOTOS MAKE THE FOLLOWING

CHANGES: REDRAFT CHANNELS ON 247-60-10248;

ADD STREAM 247-60-10248-2020 w/ COR;

ADD SPECIES CO_S CO_R TO STREAM 247-60-

10248; SHORTEN STREAM ! EXTENT OF A_S CHs ON

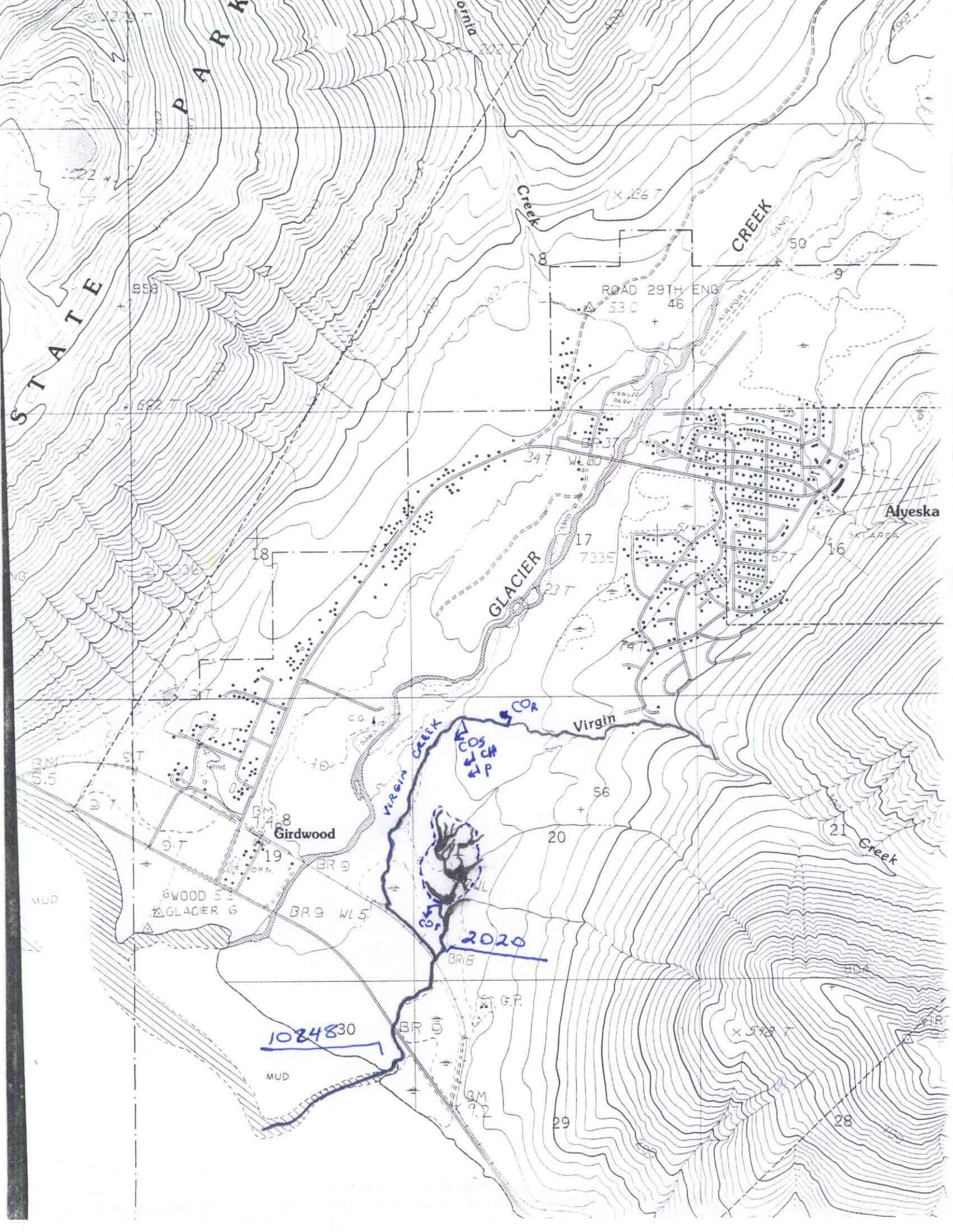
STREAM 10248.

CHANGE REQUESTED BY : DOUG HILL / ED WAIN 12/1/97
DATE

DRAFTED/DIGITIZED BY: _____
DATE

REVISION CODE: C-5, A-2, B-1, D-1

NOMINATION NUMBER: 98-202



STATE PARK

PARK

Creek

CREEK

ROAD 29TH ENG

GLACIER

Alaska

Virgin Creek

Virgin

Girdwood

Creek

2020

1024830

3 COR
COS
W/CH
W/P

BR 8

BR 9

BR 9 WL 5

BR 5

G.P.

BR 2

WOOD 5
GLACIER 6

856

692

18

8

9

34

W 40

17

7335

16

56

20

21

29

28

X 126 T

50

AIRPORT

16

21

X 578 T

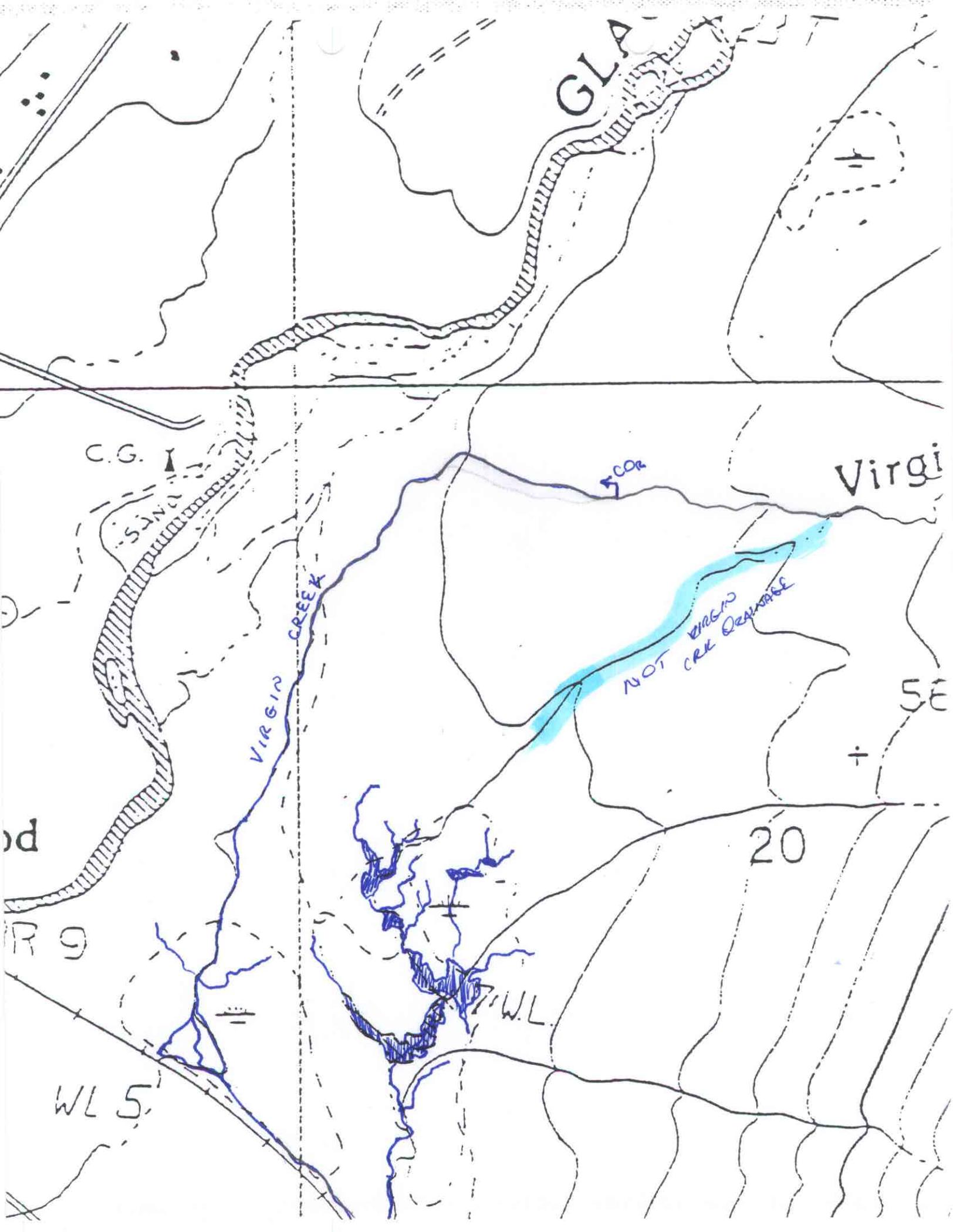
X 100 T

MUD

MUD

504

X 100 T



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

Region SOUTHCENTRAL  USGS Quad Seward D-6

Anadromous Water Catalog Number of Waterway 247-60-10248

Name of Waterway Virgin Creek USGS Name Local Name
 Addition Deletion Correction Backup Information

For Office Use

Nomination # <u>98 202</u>	Regional Supervisor <u>Ed Wain</u>	Date <u>12/16/97</u>
Revision Year: _____	AWC Project Biologist	Date _____
Revision to: Atlas _____ Catalog _____ Both <u>X</u>	Drafted	Date _____
Revision Code: _____		

OBSERVATION INFORMATION

Species	Date(s) Observed	Spawning	Rearing	Present	Anadromous
Coho Salmon	9/30/97, 10/14/97	XXX		XXX	<input checked="" type="checkbox"/>
Coho Salmon	8/27/97, 9/8&9&29/97, 10/14/97		XXX		<input type="checkbox"/>
Dolly Varden	8/5&27/97, 9/8&9&29/97			XXX	<input type="checkbox"/>
Dolly Varden	10/13/97			XXX	<input 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 other information such as: specific stream reaches observed as spawning or rearing habitat; locations, types, and heights of any barriers; etc.

Comments: Fish sampling occurred in the Virgin Ck. drainage, within a defined study area (Figure 1), as a result of the Municipality of Anchorage's proposal to construct a golf course in the Glacier Valley (Girdwood). Adult salmon were observed while walking the drainage on 9/30/97 & 10/14/97 (Table 1, Fig. 2). One coho was observed in Virgin Ck. on 10/14/97. A coho carcass was observed on 9/29/97 (Table 1; Figure 2). Thirty five traps were set in the Virgin Creek drainage. Juvenile coho salmon were captured in minnow traps on 8/27/97, 9/8&9&29/97, and 10/14/97 (Table 2). The upstream extent of juvenile coho capture (capture date 9/29/97) is shown on Figure 2. Dolly Varden were captured in minnow traps on 8/5&27/97, 9/8&9&29/97, and 10/14/97. The upstream extent of mainstem Dolly Varden capture (capture dates 8/5/97 and 9/9/97) is shown on figure 3 (Table 2). Dolly Varden were also captured in a---

Name of Observer (please print) Doug Hill ALASKA DEPT. OF FISH & GAME
 Date: 11/13/97 Signature: Douglas D Hill
 Address: ADFG 333 Raspberry Rd Anchorage, Ak 99508 NOV 13 1997
 REGION II HABITAT AND RESTORATION DIVISION

This certifies that in my best professional judgment and belief the above information is evidence that this water body 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: _____

tributary to the south-southwest of Virgin Creek. The upstream extent of Dolly Varden capture in this tributary is shown in Figure 1. Adult observation locations are shown on Figure 4. Minnow trap locations are shown on Figures 5 and 6. Figure 7 is a copy of the current anadromous waters cataloge map of Virgin Creek.

11 TABLE 9

TABLE 1
VIRGIN CREEK
AWC 247-60-10248
ADULT FISH OBSERVATIONS

DATE	LIVE/DEAD COUNT					OBSERV # (Location)	FIGURE #
	CO	KS	CH	PS	RS		
8/4/97	0/0	0/0	0/0	0/0	0/0	NA	NA
Total	0/0	0/0	0/0	0/0	0/0		
8/20/97	0/0	0/0	0/0	0/0	0/0	NA	NA
Total	0/0	0/0	0/0	0/0	0/0		
8/25/97	0/0	0/0	0/0	0/0	0/0	NA	NA
Total	0/0	0/0	0/0	0/0	0/0		
9/29/97	0/1	0/0	0/0	0/0	0/0	AV1	9
Total	0/1	0/0	0/0	0/0	0/0		
9/30/97	2/0	0/0	0/0	0/0	0/0	AV1	9
"	1/0	0/0	0/0	0/0	0/0	AV2	9
"	2/1	0/0	0/0	0/0	0/0	AV3	9
"	3/0	0/0	0/0	0/0	0/0	AV4	9
"	1/0	0/0	0/0	0/0	0/0	AV5	9
Total	9/1	0/0	0/0	0/0	0/0		
10/14/97	1/0	0/0	0/0	0/0	0/0	AV1	9
Total	1/0	0/0	0/0	0/0	0/0		

CO---Coho Salmon
KS---King Salmon
CH---Chum Salmon
PS---Pink Salmon
RS---Red Salmon

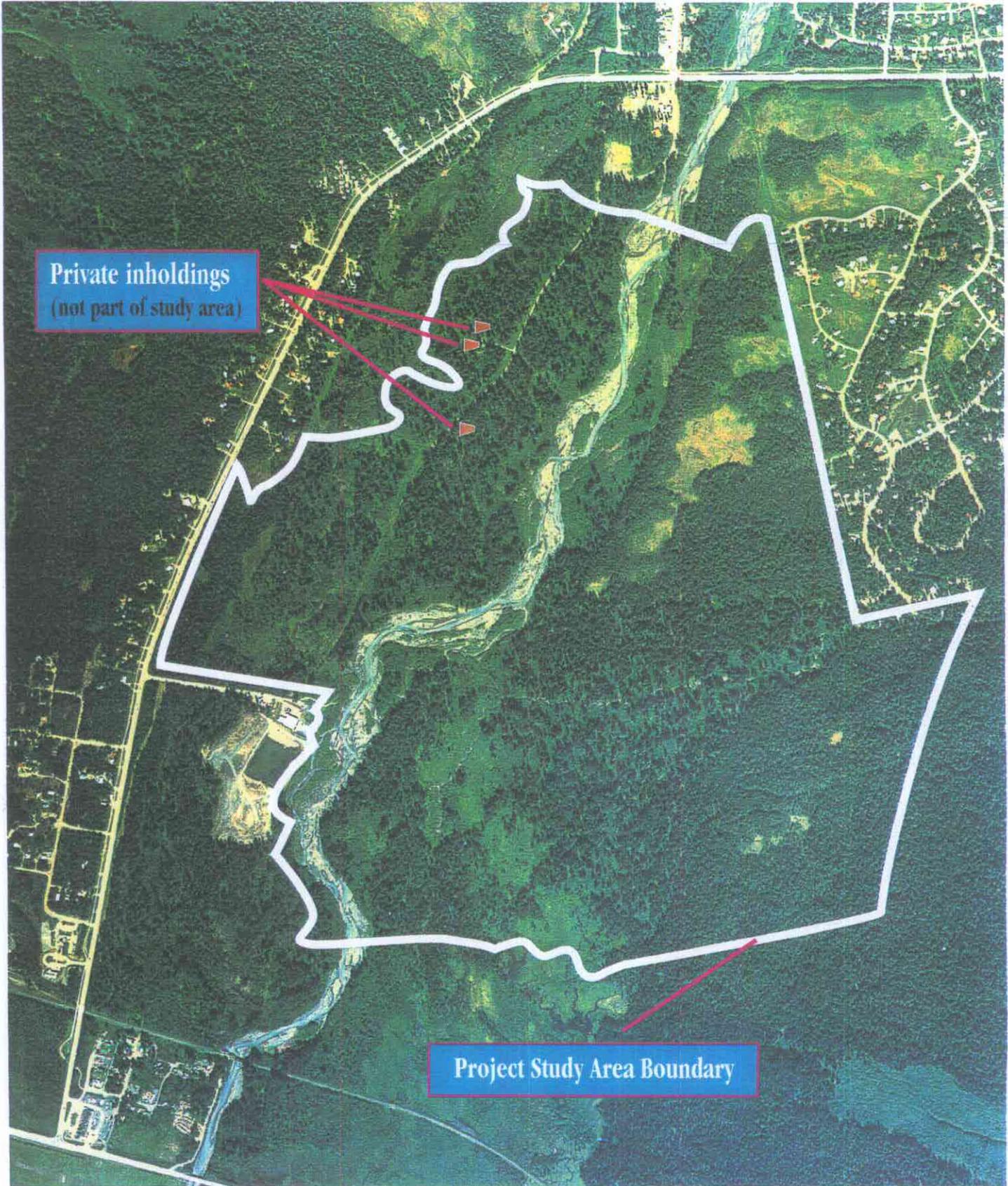
TABLE 2

TABLE 2
AWC # 247-60-10248
MINNOW TRAP/CATCH DATA

DATE TIME IN	SET #	# FISH/TRAP (By Species)					TOTAL # FISH/TRAP	FIGURE #
		CO	KS	DV	SC	ST		
8/5/97	MV1	0	0	4	0	0	4	10
8/5/97	MV2	0	0	1	0	0	1	10
8/5/97	MV3	0	0	0	0	0	0	10
8/5/97	MV4	0	0	0	0	0	0	10
Trap Total		0	0	5	0	0	5	
8/27/97	MV1	1	0	2	0	0	3	11
8/27/97	MV2	0	0	15	0	0	15	11
8/27/97	MV3	2	0	6	0	0	8	11
8/27/97	MV4	0	0	0	12	0	12	11
8/27/97	MV5	0	0	27	0	0	27	11
8/27/97	MV6	14	0	7	0	0	21	11
8/27/97	MV7	29	0	3	0	0	32	11
8/27/97	MV8	9	0	2	0	0	11	11
8/27/97	MV9	6	0	0	0	0	6	11
8/27/97	MV10	13	0	0	0	0	13	11
8/27/97	MV11	6	0	13	0	0	19	11
Trap Total		80	0	75	12	0	167	
9/8/97	MV1	0	0	0	0	0	0	11
9/8/97	MV2	0	0	4	0	0	4	11
9/8/97	MV3	0	0	5	0	12	17	11
9/8/97	MV4	0	0	15	0	0	15	11
9/8/97	MV5	0	0	0	0	15	15	11
9/8/97	MV6	0	0	5	0	15	20	11
9/8/97	MV7	0	0	0	0	1	1	11
Trap Total		0	0	29	0	43	72	
9/9/97	MV1	0	0	6	0	0	6	10
9/9/97	MV2	0	0	8	0	0	8	10
9/9/97	MV3	0	0	2	0	0	2	11
9/9/97	MV4	0	0	0	0	0	0	11
Trap Total		0	0	16	0	0	16	
9/29/97	MV1	1	0	20	0	0	21	11
9/29/97	MV2	2	0	7	0	0	9	11
9/29/97	MV3	0	0	38	1	0	39	11
9/29/97	MV4	0	0	2	0	0	2	11
9/29/97	MV5	0	0	26	0	0	26	11
Trap Total		3	0	93	1	0	97	
10/13/97	MV1	0	0	2	0	0	2	11
10/13/97	MV2	0	0	2	0	0	2	11
10/13/97	MV3	12	0	4	0	0	16	11
10/13/97	MV4	3	0	8	0	0	11	11
Trap Total		15	0	16	0	0	31	

CO---Coho Salmon
KS---King Salmon
DV---Dolly Varden
SC---Sculpin
ST---Stickleback

Figure 1



Private inholdings
(not part of study area)

Project Study Area Boundary



9/29-AV1
CARCASS (NOV) →

9/30-AV1
COST →

9/29-MV1
CO-1 →

SOUTH TRIBUTARY
9/8-MV 1,2,3,6,7 →

DY →

DY →

Virgin Creek + Trib.
to SSW.
Figure 2

Virgin Creek.

FIGURE 3

8/5-MV1

9/9-MV2

DV

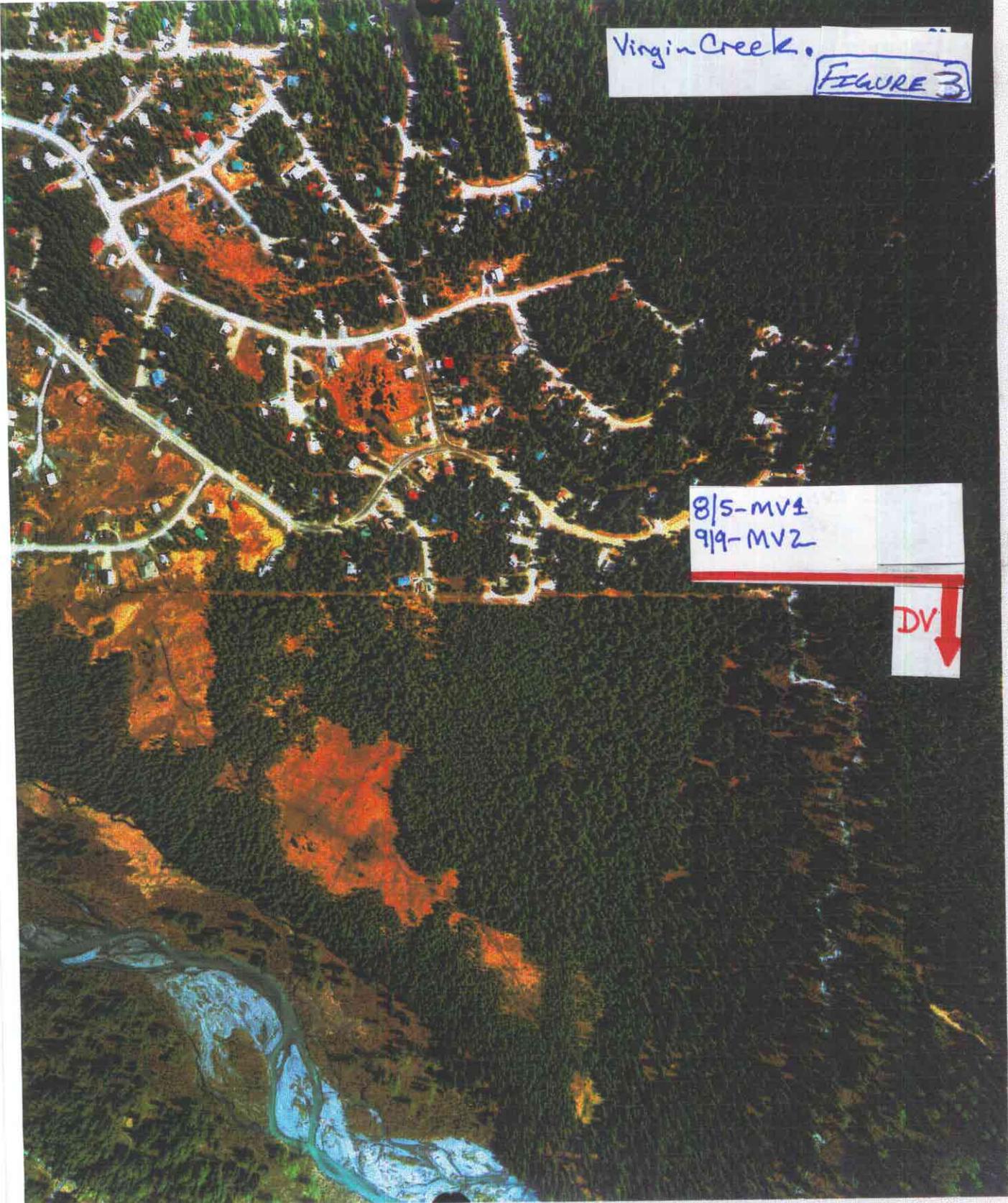


Figure 4

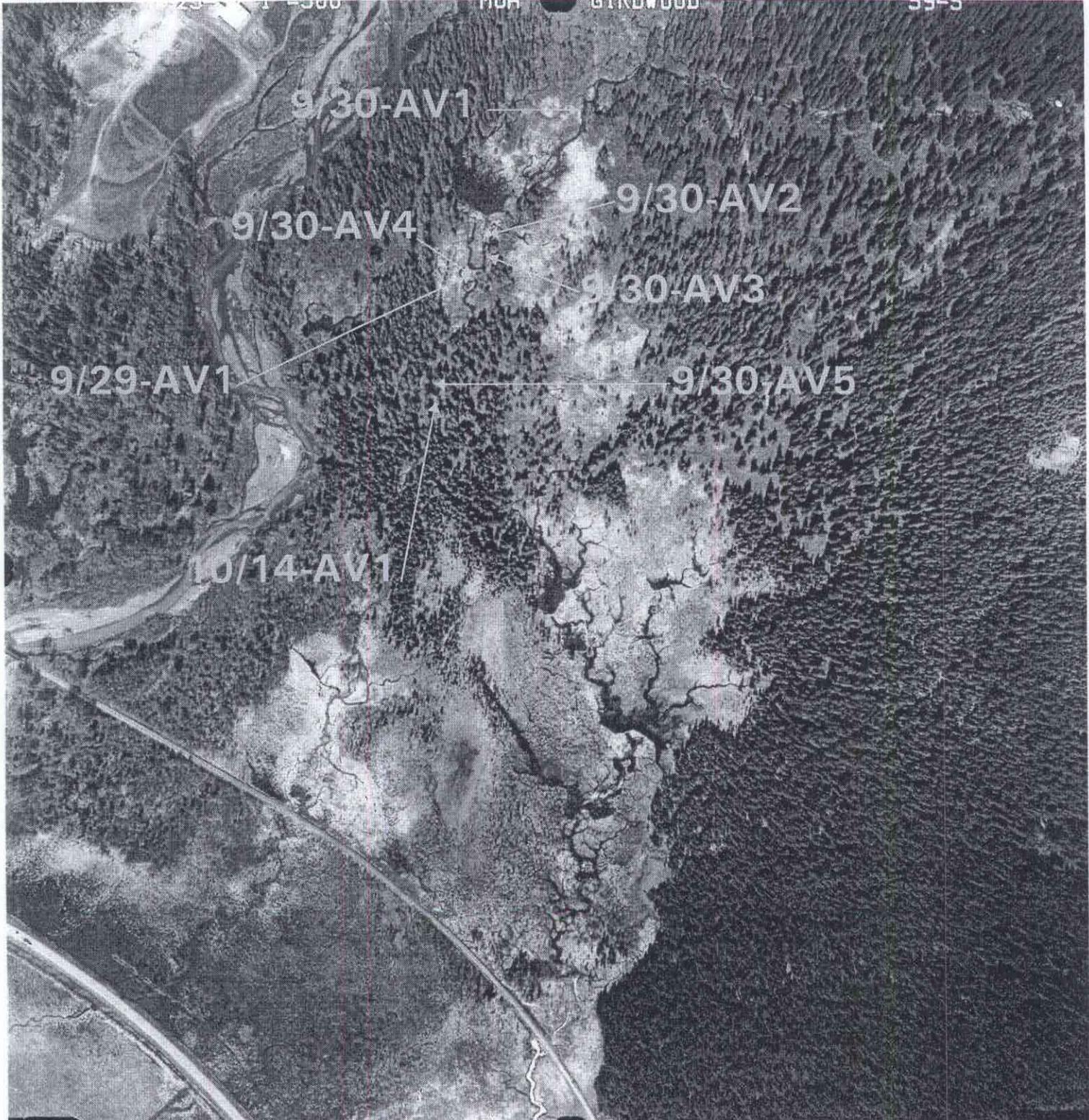


Figure 4. Virgin Creek adult observation sites.

Aerial Photo # 59-5

Figure 5

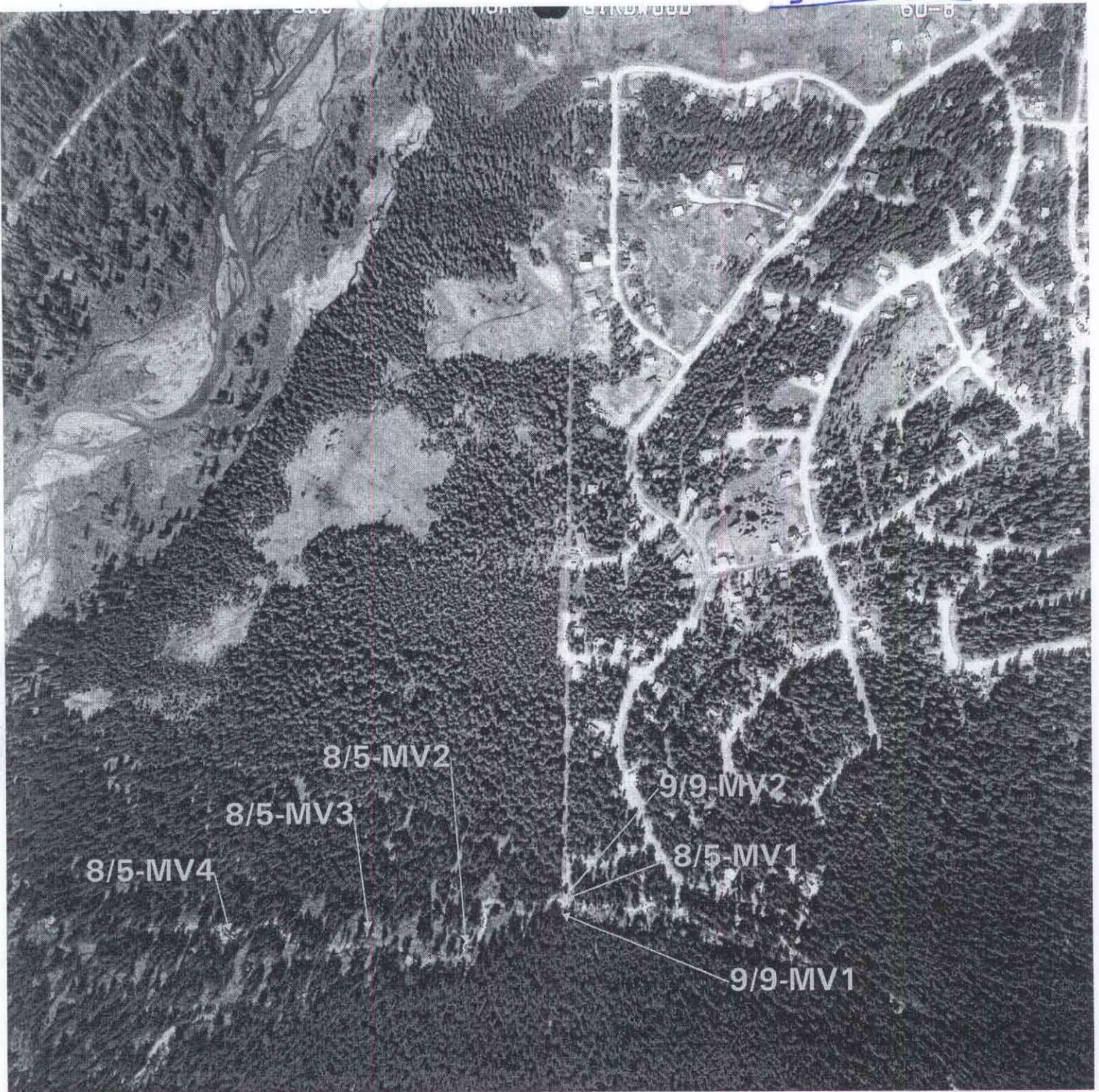


Figure 10 Virgin Creek juvenile trap sites.

Aerial Photo # 60-8

11 Figure 6

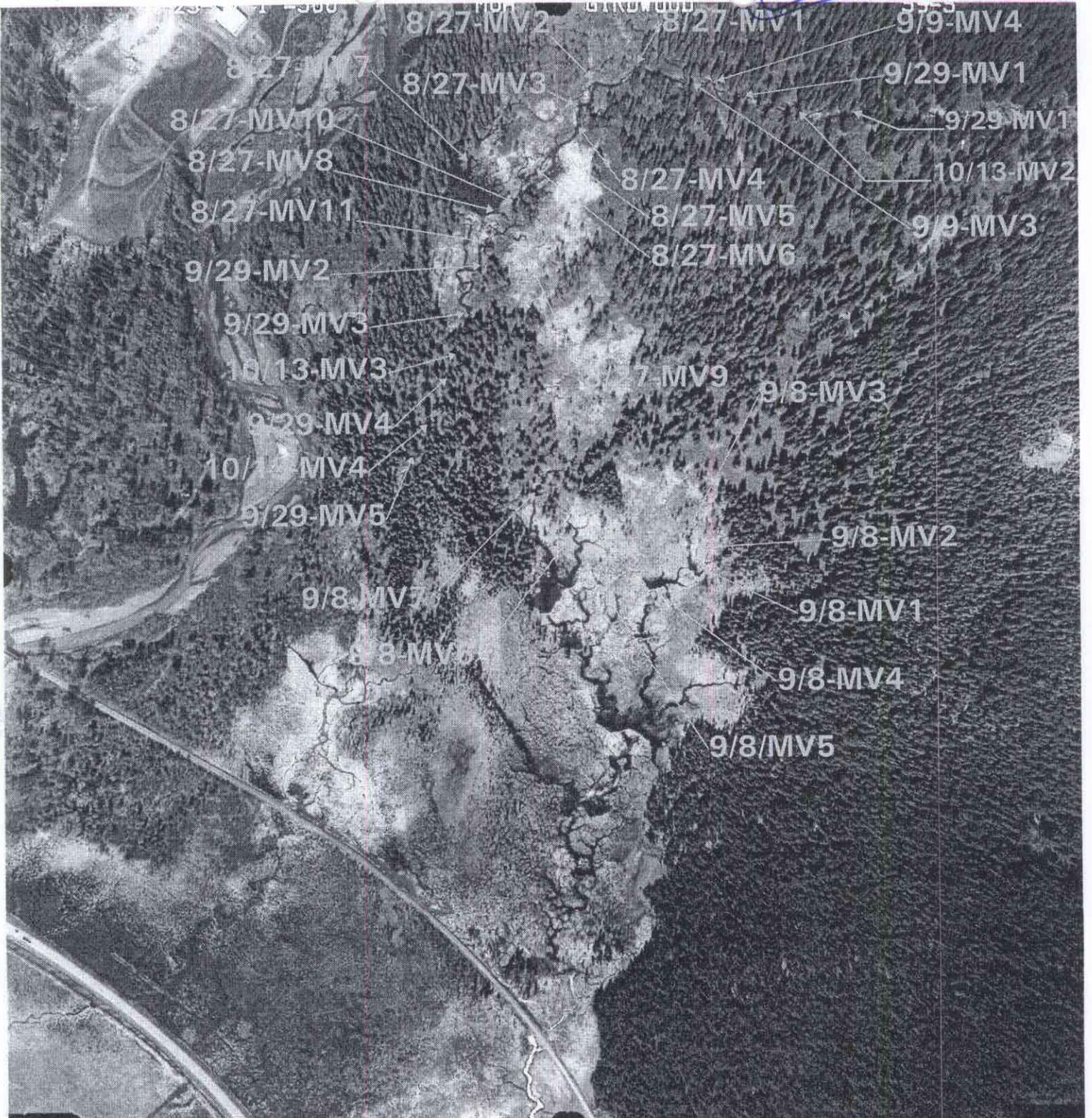


Figure Virgin Creek juvenile trap sites.

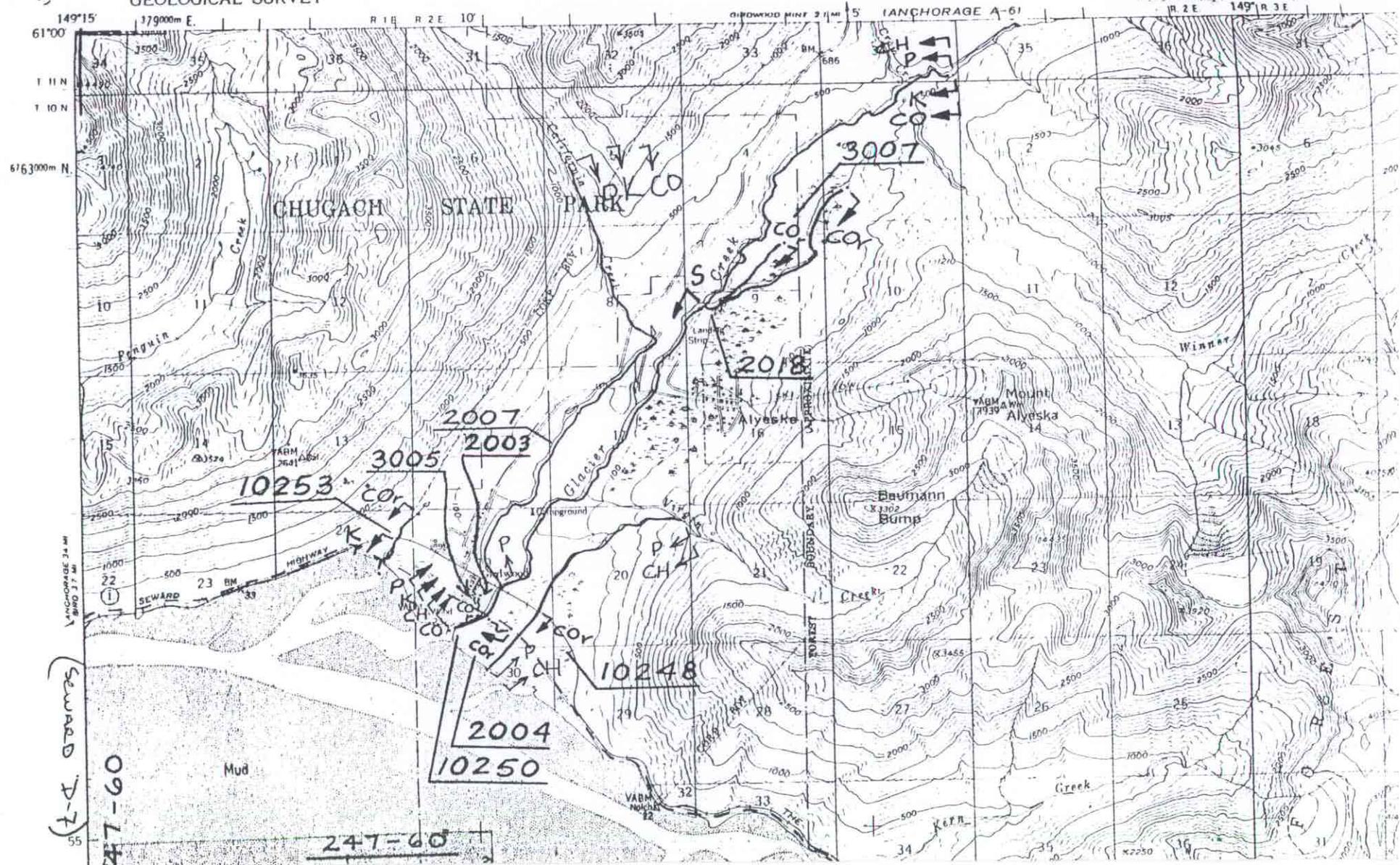
Aerial Photo # 59-5

FIGURE 7

SEWARD D-6

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

FINAL



Seward D-6
(7)

247-60

October 15, 1996

STATE OF ALASKA

DEPARTMENT OF FISH AND GAME

Habitat and Restoration Division

TONY KNOWLES, GOVERNOR

333 Raspberry Road
Anchorage, AK 99518-1599
PHONE: (907) 344-0541
FAX: (907) 267-2464

MEMORANDUM

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

FROM: Doug Hill *DH*
Fish and Game Technician
Habitat and Restoration Division

DATE: October 15, 1996

SUBJECT: Virgin Creek (Stream no 246-60-10248)
Anadromous fish stream survey and minnow trapping

October 15, 1996

1000 hr: Depart Anchorage

1119 hr: I parked at an Alaska Railroad access road, approximately 3/4 mile south of the Seward and Alyeska Highway junction. I Walked to Virgin Creek via the Alaska Railroad tracks.

1124 hr: Arrived at Virgin Creek. The creek bottom is silt and sand at this point. Minnow trap set # 1 was made approximately 30' above the railroad culvert inlet. The trap was set beneath a cutbank and overhanging grass.

1127 hr: Approximately 150 yds above the railroad culvert I came to the first in a series of beaver dams. This dam was approximately 2' high. Three quarter inch thick ice covered the surface of the accompanying beaver pond. Approximately 50 yds upstream of the beaver dam mentioned above I observed 8' to 10' long stretches of pebble and gravel substrate.

Ten mallards (4 drakes and 6 hens) were observed in an open patch of water on this beaver pond.

Minnow trap set # 2 was made 50' above the beaver dam beneath a log on the upstream end of an 8' by 10' island

1130 hr: I came to beaver dam #2 approximately 70 yds above the first beaver dam. The dam was approximately 2' high and the accompanying pond was completely frozen.

I observed ten mallards in the same location as mentioned above.

1135 hr: Minnow trap set #3 was made at the top end of beaver pond #2. The trap was set in thick submerged vegetation.

1138 hr: Arrived at beaver dam #3; the accompanying pond was completely frozen. This dam was 2' to 2.5' high and approximately 50 yds above beaver dam #2.

1143 hr: Arrived at beaver dam #4 approximately 50 yds above beaver dam #3. This dam was approximately 2.5' high. Once again the accompanying pond was completely frozen. I walked half the length of this dam and decided it would be futile to go any further upstream as, even the creek channel above was froze.

1215 hr: Minnow trap set #3 was pulled; the catch was 27 coho fry.

1225 hr: Minnow trap set #2 was pulled; the catch was 2 coho fry.

1230 hr: Minnow trap set #1 was pulled; the catch was 6 coho fry.

1240 hr: Arrived at Alaska Railroad service road.

1250 hr to 1340 hr: Lunch break.

1340 hr: Timberline Drive bridge over Virgin Creek.

1350 hr: Descended Virgin Creek.

1420 hr: After 30 minutes of scrambling down an alder and blowdown choked creek bed I decided to abort. I observed little spawning substrate on this high gradient portion of the stream. The creek bed was composed primarily of boulders and cobble with numerous cascades created by rock and logs. I found a small garden fork (one foot long handle with 3 bent tines) on the bottom of the creek.

1500 hr: Arrived at Virgin Creek bridge on Timberline Drive.

1520 hr: Began drive to Anchorage ADF&G office.

1430 hr: Anchorage ADF&G office.

Minnow Trap Results
Virgin Creek

<u>Set #</u>	<u>Time Set</u>	<u>Time Pulled</u>	<u>Set Duration</u>	<u>Catch (fry)</u>
1	1124 hr	1215 hr	51 min	27 coho
2	1127 hr	1225 hr	58 min	2 coho
3	1135 hr	1230 hr	55 min	6 coho

Catch lengths (MM)

<u>Set #1</u>	<u>Set #2</u>	<u>Set #3</u>
101	51	48
117	40	70
109		70
116		51
118		59
108		48
57		
98		
115		
84		
92		
98		
83		
83		
92		
100		
121		
88		
110		
113		
113		
107		
93		
80		
84		
106		

File

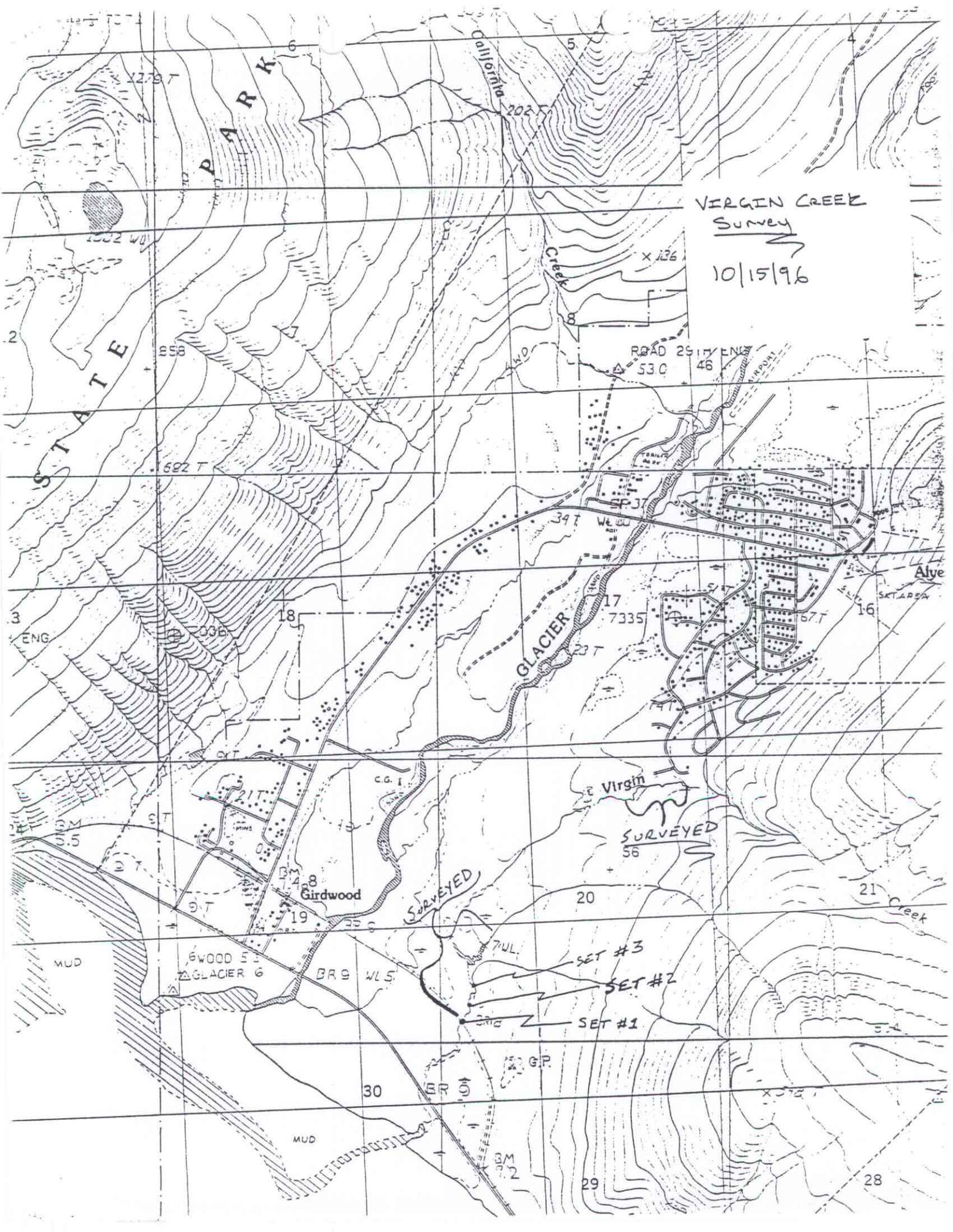
-2-

October 15, 1996

cc: Don Mckay

File

STEWART SEABERG



VIRGIN CREEK
Survey
10/15/96

STATE PARK

GLACIER

Girdwood

Virgin

Creek

SURVEYED

SURVEYED

SET #3

SET #2

SET #1

WOOD 5
GLACIER 6

BR 9 WLS

GP

BM 2

2
3
ENG

558
692 T

18

39 T

17

7335

16

9 T

19

20

21

30

29

28

California 202 T

ROAD 2917 ENG
530 46

37

WE 100

Alye

SKT A 25 W

MUD

MUD

1278 T

1222 W

X 126

W 0

036

C.G. 1

21 T

BM 48

7 WLS

BR 9

X 126

2

5

4

2

2

8

2

3

3

3

3

3

3

3

3

3

3

8

8

8

8

8

8

8

8

8

8

8

X 126

530 46

37

17

7335

16

20

21

29

28

28

