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

ALASKA DEPT. OF FISH & GAME
OCT 16 1998
REGION II
HABITAT AND RESTORATION DIVISION

Region: SOUTHCENTRAL

USGS Quad: Cordova C-7

Anadromous Water Catalog Number of Waterway: 221-30-10670

Name of Waterway: ☐ USGS Name ☐ Local Nam

☐ Addition ☐ Deletion ☐ Correction ☐ Backup Information

For Office Use

Nomination #	99 079		
Revision Year:		Regional Supervisor	Date
Revision to: Atlas / Catalog / Both	N/A	[signature]	2/9/00
		AWC Project Biologist	Date
Revision Code:	F-2		
		Drafted	Date

OBSERVATION INFORMATION

Species	Date(s) Observed	Spawning	Rearing	Present	Anadromous
Cutthroat trout	6/24/98		✓	present	☒
Dolly Varden	6/24/98		✓	present	☒
					☐
					☐
					☐

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:

Juvenilles of Both species present, as well as coho Juvenilles. No Downstream Barriers, Rearing and Spawning (cutthroat)(coho?) habitat exhists.

Visual I.D. of Juv. F-2

Name of Observer (please print): DIRK W. LANG

Date: 10 / 13/98 Signature: [signature] (Fish Tech)

Address: Cordova Ranger Dist.
PO Box 280
Cordova, AK 99574

This certifies that in my best professional judgment 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: _____

Revision 11/96

Tatitlek Stream Crossing Data Form Date: 6/24 Stream:
Site ID # ETMSC1 Crew: KH, DL
Road: EAST TWOMOON Mileage from origin 1.2 end
GPS: Aerial Photo #/FLT/YR 12/3/95
Weather: Cloudy Rainfall last 24 hrs: none L M H
Photo Roll # Picture #

Culvert Type: Box Circular Pipe arch Arch ✓ Stringer Bridge
Present Condition of Stringer Bridge: ✓ Stable Moderately Stable Unstable
Present impacts due to Bridge(Blockage, Bank Erosion, shading cover, etc.):
Lack of Vegetation on Bank Some minor erosion
Bridge removed Now
Future impacts due to Bridge(Blockage, Bank Erosion, Woody Debris Input, etc):
NONE

Length of Culvert/Bridge: 20ft Diameter of Culvert:
H2O Depth in Culvert: Less than 1ft during low flow: Yes No
H2O Velocity thru Culvert: ft / Sec Culvert Gradient: %
Resting Pools Within Culvert: Number: Distance Apart: (50ft max; velocity 3ft/sec)
Culvert Blockage % Blockage Material: Structural Bedload Woody Debris
Volume of Blockage Material (LxWxH) cu. ft.
Culvert Perch Height: (1ft max trout; 2-3ft salmon) Hydraulic Jump Depth:
Outlet Pool Length: Width: Residual Depth: (Max depth) - (Tail depth) =
Inlet Pool Length: Width: Max depth:
Stream Gradient Change:

Gradient Above Culvert	Gradient Below Culvert
✓ <1%	✓ <1%
>1;<4%	>1;<4%
>3;<7%	>3;<7%
>7;<10%	>7;<10%
>10%	>10%

Culvert Placement: 100ft straight alignment: Upstreasm Y ✓ N Downstream Y ✓ N
Outflow Directed at streambank: Y ✓ N

Stream Impacts due to Culvert/Bridge:	Upstream	Downstream
Headcutting	Yes ✓ No	Yes ✓ No
Channel bank erosion	Yes ✓ No	Yes ✓ No
Backwater erosion	Yes ✓ No	Yes ✓ No

Action Required:
✓ No Action Needed
Obstructions Removed
Riprapp around culverts
Remove Culvert
Seeding/Planting
Riprapp on banks
Gabion weirs-restingpool
Replace Culvert

Labor Recommended:
✓ No Labor Needed
Moderate Intensive Hand Labor
Critical Problem Needing Immediate Action
Light Hand Labor
Heavy Equipment

Comments: Bridge Removed; Fish Present ~ Colo, Cut, DV

TATITLEK STREAM SURVEY: Watershed: Bigger Lake Crew KH, DL Site ID: ETMSC
Stream Road Crossing Disturbance Date
Road Crossing EAST TWOMOON Mileage from road origin end 1.2
Lat./long. Crossing Type: Bridge Stringer Bridge Culvert
Rainfall last 24 hrs: L M H none Aerial photo: FL 3 YR 72 Camera Roll # photo#
Stream class type: 1 2 3 4 Channel @ crossing: impact straight bend braided multiple thread

	Upstream	Downstream	At Impact
Channel type	L1	B4 MCl m	
Control	Alluvium Bedrock Mixed	Alluvium Bedrock Mixed	Alluvium Bedrock Mixed
Incision (m)	<1 1-2 2-4 4-6 6-10 10-20	<1 1-2 2-4 4-6 6-10 10-20	<1 1-2 2-4 4-6 6-10 10-20
D.Substrate	silt sand grav scb lcb sb lmb	silt sand grav scb lcb sb lmb	silt sand grav scb lcb sb lmb
Bank comp	silt sand grav scb lcb sb lmb	silt sand grav scb lcb sb lmb	silt sand grav scb lcb sb lmb
Habitat type	Corner Pool	Corner Pool	Meander Bend (Corner Pool)

Looking Up	LB	0.25	0.5	0.75	RB
Bankful Width	24'8"				
Bankful Depth	14"	14"	14"	12"	12"
Active Width	2'10"				
Active Depth	3"	3"	3"	2"	2"
Thalweg	3"				

Fish Spp Present	# adult	#juv.	visual shock. net
Colo		1	Visual
Cut		2	Visual
DV		2	Visual

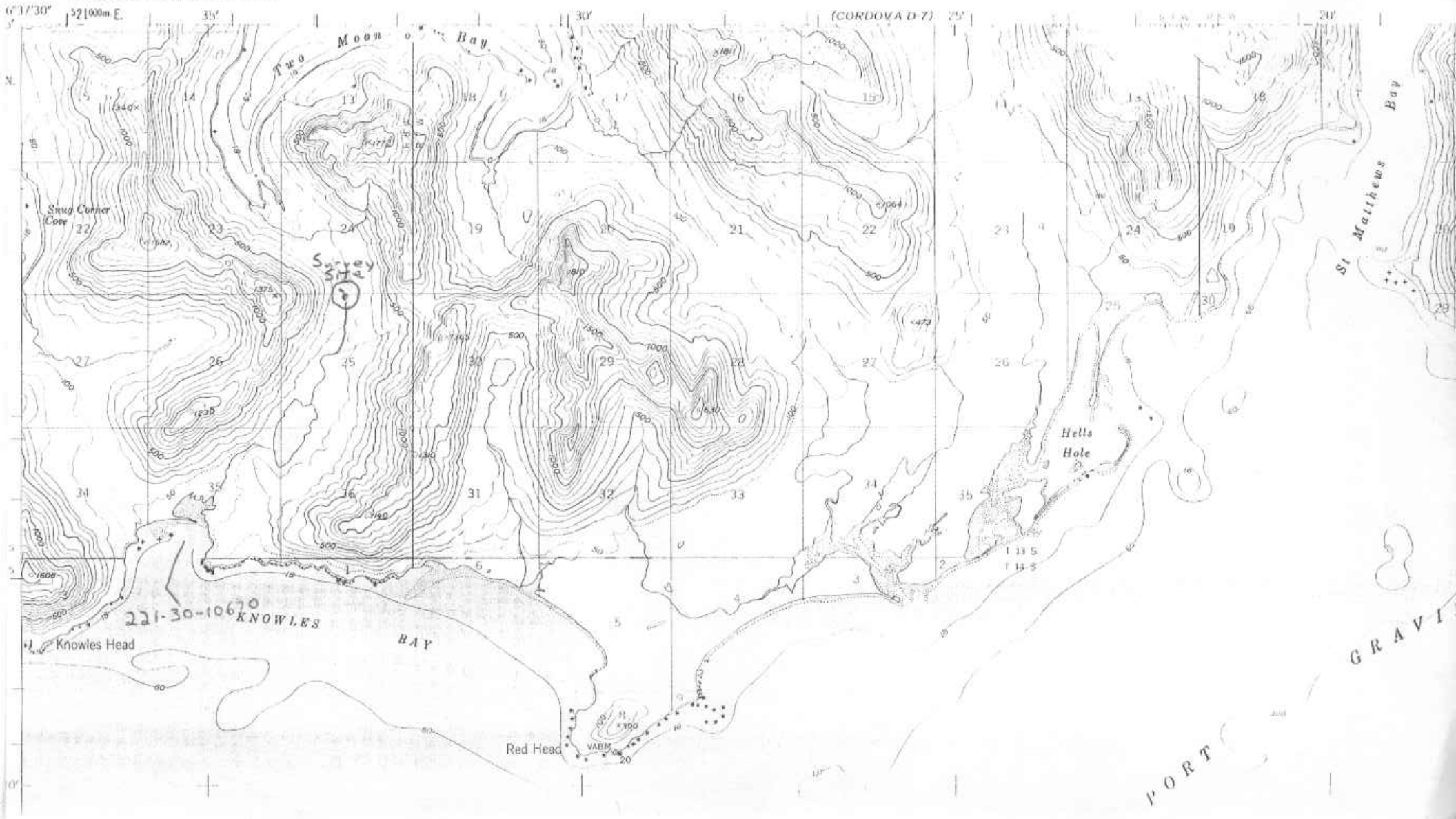
BARRIER TYPE: Distance from site: up /downstrm
Max. fall height (ft): Pool depth(ft): Steep gradient: feet @ %

DISTURBANCE: urb ulb
Blowdown: # of trees: Avg. diameter: Length of blowdown along stream:
Debris/earth slides consisting of: fines snd grav scb lcb sb lmb swd lwd
Volume:
Erosion and deposition of material into streams
Dog-hair stands of 2nd growth in riparian zone Area to be thinned:
other:
Immediate effects of impact on fisheries habitat:
stream blockage(%) channel diversion bank erosion sedimentation
Area (l x w) of bank erosion affecting stream:
Short-term effects: (destruction, creation of habitat. e.g.: logjams may create new pools, cover)

Long-term effects:(e.g. longterm effects of logjam may be damming of stream, new channel formation, increased erosion):

ACTION REQUIRED: ☺ ✓ no action req'd ☺ light hand labor ☹ moderate hand labor
☹ heavy equip. req'd ☹ critical problem needing action ASAP
Description of action needed, time & manpower, seeding, scarification, special equipment, etc., or comments:
Meandering muskeg stream no sources est.
Sediment loading into creek Banks begginning to
revegetate.

Cont. back side →

Cordova (C-7) Quadrangle

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY