

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

AWC Volume SE SC SW W AR (IN) USGS Quad TANANA B-1 & C1

Anadromous Water Catalog Number of Waterway 334-40-11000-2600-3045

Name of Waterway HOOSIER CREEK USGS name X Local name _____

Addition X Deletion _____ Correction _____ Backup Information _____

For Office Use

Nomination # <u>94 338</u>	<u>A. Mett</u>	<u>10-25-93</u>
Revision Year: <u>'94</u>	Regional Supervisor	Date
Revision to: Atlas _____ Catalog _____	<u>EO Weis</u>	<u>1/26/94</u>
Both <u>X</u>	<u>J. Irone</u>	<u>2/18/94</u>
Revision Code: <u>A-2 B-1</u>	Drafted	Date

OBSERVATION INFORMATION

Species	Date(s) Observed	Spawning	Rearing	Migration	Anadromous
Chinook Salmon	Sept 9, 1993		X		
Dolly Varden	↓	see ATTACHED		DATA SHEET	
Arctic Grayling	↓	↓	↓	↓	↓
Slimy Sculpin	↓	↓	↓	↓	↓

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: On Sept 9, 1993, 156 ft. of riffle habitat was sampled within an area mined approximately 3-years ago (65°26.265'; 150°03.523'). Sampling was conducted using a Smith-Root Model 15-A backpack shocher set at 60Hz : 400V. The section was blocked off using '18" mesh seines and three passes made. Eight Chinook salmon fry were captured ranging from 72-87mm FL and having an average weight of 7.4g. One fish was retained for I.D. purposes.

Name of Observer (please print) CARL F. KRETSINGER (907-474-2345)

Date: 9/27/93 Signature: Carl F. Kretsinger

FISH & GAME
NOV 08 1993
Address: 1150 University Ave (BLM-Kobuk Dist.)
Fairbanks, AK 99709

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: [Signature] 10.22.93

Fish Sample (9-9-93)

Hoosier Creek electrofishing data, September 9, 1993.						
Location: Approximately two stream miles up from the mouth of Hoosier Creek at 65° 26.265'; 150° 03.523'						
Time: 1235						
Air Temp.: 9°C			Turbidity: 2.4 NTU			
Water Temp.: 4°C			pH: 8.4			
Conductivity: 256 umhos/Cm @ 2% temp. coef.						
Previously Mined Section:						
Length of stream sampled: 156 ft.		Area: ~9,360 sq. ft.		Habitat type: riffle		
Method: three pass capture-removal. Section blocked above and below with 1/8" mesh seine.						
Smith-Root Model 15A backpack shocker (60Hz @ 400v) used for sampling. Weights were obtained using a Pesola 500g scale.						
Time shocked: First Pass (490 sec.), Second Pass (612 sec.), Third Pass (545 sec.).						
	First Pass		Second Pass		Third Pass	
Species	FL (mm)	Weight (g)	FL (mm)	Weight (g)	FL (mm)	Weight (g)
Arctic Grayling	173	52	120	avg.	115	12
	140	25	112	avg.		
		77g/2=38.5g		28g/2=14.0g		12.0g
Slimy Sculpin	98	avg.	88	avg.	99	avg.
	93	avg.	93	avg.	95	avg.
	95	avg.	96	avg.	88	avg.
	113	avg.	74	avg.		30g/3=10.0g
	78	avg.		35g/4=8.8g		
	77	avg.				
	105	avg.				
	95	avg.				
	79	avg.				
		79g/9=8.8g				
Dolly Varden	71	avg.	132	avg.	62	avg.
	116	avg.	68	avg.	67	avg.
	133	avg.	132	avg.		6g/2=3.0g
	100	avg.	70	avg.		
			50g/4=12.5g	62	avg.	
			68	avg.		
				56g/6=9.3g		

Fish Sample (9-9-93)

Previously Mined Section (Cont.):						
	First Pass		Second Pass		Third Pass	
Species	FL (mm)	Weight (g)	FL (mm)	Weight (g)	FL (mm)	Weight (g)
Chinook Salmon	87	10	75	avg.	72	avg.
	78	5	77	avg.	78	avg.
		15g/2=7.5g	77	avg.	74	avg.
				27g/3=9.0g		17g/3=5.7g
Undisturbed Section:						
Length of stream sampled: 175 ft.			Area: ~2,330 sq. ft.		Habitat type: pool:riffle (1.1 to 1)	
Method: three pass capture-removal. Section blocked at lower end with 1/8" mesh seine, riffle used as upstream block.						
A Smith-Root Model 15A backpack shocker (60Hz @ 400v) was used to sample reach.						
Weights were obtained using Pesola 500g and 2 kg scales.						
Note: downstream seine net failed following second pass resulting in a potential loss of fish.						
Time shocked: First Pass (502 sec.), Second Pass (408 sec.), Third Pass (364 sec.).						
	First Pass		Second Pass		Third Pass	
Species	FL (mm)	Weight (g)	FL (mm)	Weight (g)	FL (mm)	Weight (g)
Arctic Grayling	271	280	-		-	
	255	230	-		-	
	249	180	-		-	
		690g/3=230g				
Dolly Varden	177	avg.	133	avg.	156	avg.
	179	avg.	143	avg.	154	avg.
	169	avg.	83	avg.		87g/2=43.5g
	146	avg.		73g/3=24.3g		
	154	avg.				
	147	avg.				
	85	avg.				
	75	avg.				
	97	avg.				
	58	avg.				
		308g/10=30.8g				