

Region ARCTIC ↓

USGS Quad BEECHY POINT 8-3

Anadromous Water Catalog Number of Waterway 330-00-10415

Name of Waterway POTULZGAY UK USGS Name Local Name

Addition Deletion Correction Backup Information

For Office Use

Nomination #	<u>97 043</u>	<u>[Signature]</u>	<u>12-4-96</u>
Revision Year:		Regional Supervisor <u>OKLET</u>	Date
Revision to: Atlas	Catalog	<u>Ed Wein</u>	<u>2/11/97</u>
	Both	AWC Project Biologist	Date
Revision Code: <u>B1</u>		<u>J. Brown</u>	<u>12/2/97</u>
		Drafted	Date

OBSERVATION INFORMATION

Species	Date(s) Observed	Spawning	Rearing	Present	Anadromous
<u>ARCTIC CISC0</u>	<u>1993</u>		<u>X</u>		<input checked="" type="checkbox"/>
<u>LEAST CISC0</u>	<u>1993</u>		<u>X</u>		<input checked="" type="checkbox"/>
<u>RAINBOW SMELT</u>	<u>1993</u>		<u>X</u>		<input checked="" type="checkbox"/>
					<input type="checkbox"/>
					<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:
ATTACHED: TECHNICAL REPORT 95-3
BY CARL R. HEMMING

ALASKA DEPT. OF
FISH & GAME

Name of Observer (please print) CARL HEMMING
 Date: 12-4-96 Signature: Carl Hemming DEC 23 1996
 Address: 1300 COLLEGE ROAD
FAIRBANKS, AK 99709 REGION II
HABITAT AND RESTORATION
DIVISION

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: Carl Hemming

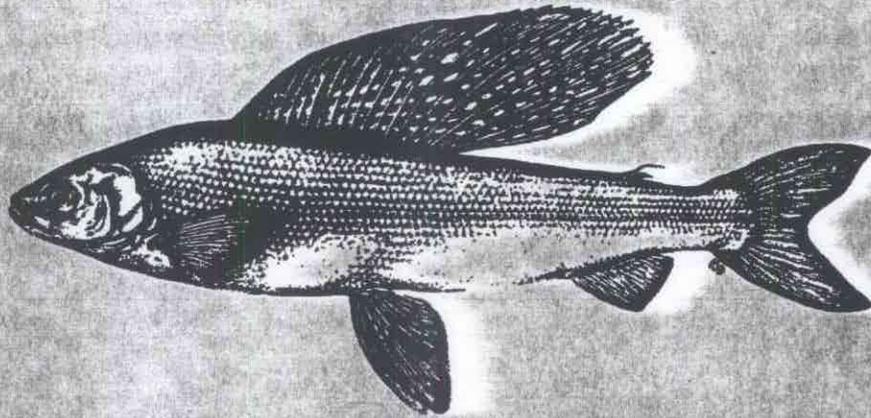
CARL HEMMING

**FISHERIES ENHANCEMENT INVESTIGATIONS
IN THE PRUDHOE BAY AND
KUPARUK RIVER OILFIELDS, 1993**

By

Carl R. Hemming

Technical Report 95-3



**Alaska Department of Fish & Game
Habitat and Restoration Division
February 1995**



BWF
6/01

Results

Put 27

Fyke Net Sampling

In July and late August, we fished a fyke trap at the access ramp to Put 27. Eleven fish species were captured including those with freshwater, anadromous, and marine life history patterns (Table 6). Arctic cisco, broad whitefish, fourhorn sculpin, least cisco and ninespine stickleback were captured during both sampling periods, Arctic cod, Arctic flounder, Dolly Varden, and round whitefish were captured in July and grayling and rainbow smelt were captured in late August.

Ninespine stickleback, fourhorn sculpin, and broad whitefish were captured most frequently (Table 7). In July the sample catch contained 42% ninespine stickleback, 41% broad whitefish, and 10% fourhorn sculpin. In August 50% of the fish captured were fourhorn sculpin, while 46% were ninespine stickleback and only 2.5% were broad whitefish. The remaining fish species were captured infrequently.

We captured 113 young-of-the-year broad whitefish in July (Appendix IV). These small broad whitefish ranged from 37 to 48 mm and averaged 42 mm (SD = 3.7). In Late August we captured 21 young-of-the-year broad whitefish that ranged from 55 to 77 mm and averaged 66 mm (SD = 4.3).

Gill Net Sampling

We fished experimental gill nets at the access ramp and in the inlet channel to Put 27 from August 29 to 30. At the access ramp we captured five large broad whitefish ranging from 429 to 485 mm in length. At the inlet channel we captured three large broad whitefish (454 to 483 mm), seven least cisco (297 to 358 mm), and a single 144 mm Dolly Varden (Table 8).

We examined stomach content from three broad whitefish and four least cisco. The broad whitefish contained amphipods while the least cisco stomachs contained mysids.

Table 6. Fish species captured in Put 27, 1993.

Fish Species		Marine	Anadromous	Freshwater
Common Name	Scientific name			
Arctic cod	<i>Boreogadus saida</i>	X		
Arctic cisco	<i>Coregonus autumnalis</i>		X	
Arctic flounder	<i>Liopsetta glacialis</i>	X		
Arctic grayling	<i>Thymallus arcticus</i>			X
Broad whitefish	<i>Coregonus nasus</i>		X	
Dolly Varden	<i>Salvelinus malma</i>		X	
Fourhorn sculpin	<i>Myoxocephalus quadricornis</i>	X		
Least cisco	<i>Coregonus sardinella</i>		X	
Ninespine stickleback	<i>Pungitius pungitius</i>		X	
Rainbow smelt	<i>Osmerus mordax</i>		X	
Round whitefish	<i>Prosopium cylindraceum</i>			X

Table 7. Results of fyke net fish sampling in Put 27, 1993.

Net Location	Dates	Time Fished Days	Mean * Water Temp (C°)	Fish ** Species	Number	CPUE Fish/day
<i>Put 27 Access Ramp</i>	July 17-22	5.0	13.2	ACi	2	0.4
				ACD	1	0.2
				AFL	7	1.4
				BWF	113	22.6
				DV	2	0.4
				FHS	27	5.4
				LCi	1	0.2
				NSB	116	23.2
				RWF	4	0.8
<i>Put 27 Access Ramp</i>	Aug 18 - Sept 1	4.0	6.1	ACi	1	0.3
				AG	1	0.3
				BWF	21	5.3
				FHS	421	105.3
				LCi	3	0.8
				NSB	389	97.3
				RBS	1	0.3

* Mean temperatures from daily measurements at net sites

** ACi = Arctic cisco
 ACD = Arctic cod
 AFL = Arctic flounder
 AG = Arctic grayling
 BWF = Broad whitefish
 DV = Dolly Varden
 FHS = Fourhorn sculpin
 LCi = Least cisco
 NSB = Ninespine stickleback
 RBS = Rainbow smelt
 RWF = Round whitefish

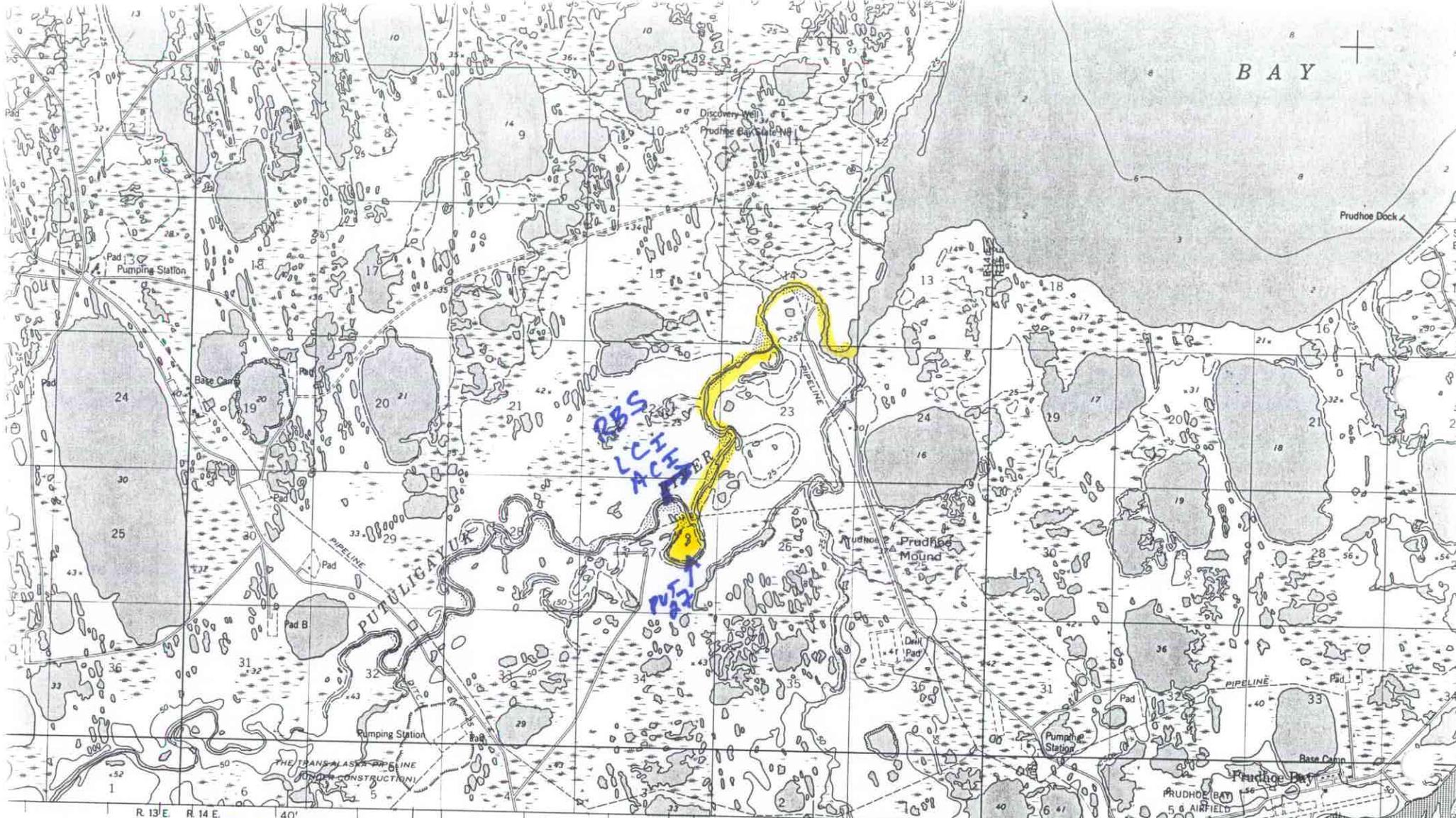
Table 8. Gill net fish sampling results from Put 27, August 1993.

Net Location	Species	Length (mm)	Sex	Condition	Stomach Content	Comment
Access Ramp	BWF	429	M	Immature	amphipod fragments	tag scar
		444	-	-	-	released
		456	-	-	-	released
		461	-	-	-	White # 92 LGL 00523
		485	M	redeveloping	135 large amphipods	released
Inlet Channel	BWF	454	-	-	-	released
		483	-	-	-	released
		465	M	developing	60 amphipods	-
	DV	144	-	-	-	released
	LCi	297	F	developing	45 mysids	tag # 92 LGL 15436
		309	-	-	-	released
		320	-	-	-	released
		340	F	ripe	85 mysids	-
		346	F	ripe	mysids	-
		357	F	ripe	empty stomach	Yellow tag # 93 LGL 10971
358		F	developing	1 mysid	-	

BWF = Broad whitefish

DV = Dolly Varden

LCi = Least cisco

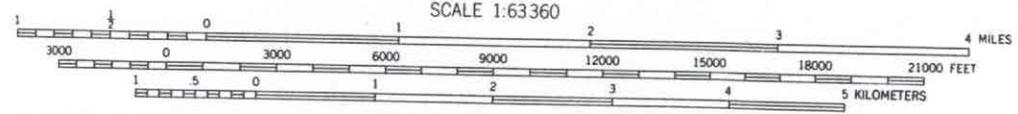


BAY

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ADD SMELT TO STREAM
330-00-10415
BEECHY POINT B-3

ator projection. 1927 North American datum
 used on Alaska coordinate system, zone 6
 nverse Mercator grid ticks,
 unsurveyed and unmarked locations
 eau of Land Management
 n
 cked



CONTOUR INTERVAL 50 FEET
 DASHED LINES REPRESENT 25-FOOT CONTOURS
 NATIONAL GEODETIC VERTICAL DATUM OF 1929
 DEPTH CURVES AND SOUNDINGS IN FEET—DATUM IS MEAN LOWER LOW WATER
 SHORELINE SHOWN REPRESENTS THE APPROXIMATE LINE OF MEAN HIGH WATER
 THE MEAN RANGE OF TIDE IS APPROXIMATELY 0.5 OF A FOOT

FOR SALE BY U. S. GEOLOGICAL SURVEY
 FAIRBANKS, ALASKA 99701, DENVER, COLORADO 80225, OR RESTON, VIRGINIA 22092
 A FOLDER DESCRIBING TOPOGRAPHIC MAPS AND SYMBOLS IS AVAILABLE ON REQUEST



Revisions shown in purple compiled from aerial photographs
 taken 1975. This information not field checked