JB

FISH DISTRIBUTION DATABASE CATALOG/ATLAS CORRECTION FORM

CORRECTION TO: Atlas X Catalog X

Region: ARC

Map: HARRISON BAY B-3

Water Body Number: See below

Describe Change(s): Change species from Wp (whitefish present) to BCp and HWp in 330-00-10840-2019, 330-00-10840-2019-3001, 330-00-10840-2019-3001-0010, 330-00-10840-2019-0010 330-00-10840-2019-3012, 330-00-10840-2019-3012-4015 330-00-10840-2019-3012-4815-0010

Change to 330-00-10840 made on separate nomination

Change Requested By: J. Johnson 5/24/2007 Date

Drafted/Digitized By: [signature] 5/20/08 Date

Revision Code: E-7

Nomination Number: CS-032

ATTACH THIS FORM TO EXISTING NOMINATION FORM

(Rev 05/07)

State of Alaska
Department of Fish and Game
Sportfish Division

Nomination Form
Fish Distribution Database

RECEIVED
DEC 05 2003
STATE OF ALASKA
FISH & GAME

Region: Arctic

USGS Quad: Ikpikpuk River D1, Harrison Bay A5, Teshekpuk A6

Fish Distribution Database Number of Waterway: 330-00-10840-XXXX 2201-3305

Name of Waterway: Fish Creek (East Fork) ☑ USGS Name 2215 ☑ Local Name

☑ Addition ☐ Deletion ☐ Correction ☐ Backup Information

For Office Use

Nomination # 04 098		Fisheries Scientist	9/21/04 Date
Revision Year: 2005			
Revision to: Atlas ___ Catalog ___ Both X		FDD Project Biologist	2 Jun 04 Date
Revision Code: A1-A-2		Drafted	11/3/04 Date

OBSERVATION INFORMATION

Species	Date(s) Observed	Spawning	Rearing	Present	Anadromous
Broad Whitefish	1981 (Bendock and Burr 1984)			See Below	☑
Broad Whitefish	2002 (Morris 2003)			See Below	☑
					☐
					☐
					☐

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:

The East Fork of Fish Creek is nominated from the existing upper-most boundary in the catalog (red channel on map) to the upper most lake with documented anadromous fish use (nominated channels in blue) (Lake B84052, sampled in 1981 by Bendock and Burr (1984 report) contained anadromous broad whitefish, along with least cisco, round whitefish, burbot, ninespine stickleback, slimy sculpin, and lake trout. Area of interest is oultined in black on the map. Four other lakes connected to the East Fork were sampled by Bendock and Burr and all contained anadromous whitefish. Lakes sampled and containing anadromous whitefish or used by radio-tagged whitefish are marked with red circles, lakes marked with a blue polygon are directly connected to channels with documented anadromous fish use. Years of fyke-net data and two years of telemetry data clearly indicate that connected lakes within this area are used heavily by anadromous broad whitefish (Morris 2003, Moulton 2000, 2002). One small trib just upstream from the existing upper-most anadromous baoundary (to the east) was used by a radio-tagged broad whitefish in 2002 and is nominated. Several radio-tagged broad whitefish were relocated during summer and winter in portions of Fish Creek above the current upper-most boundary in 2001 and 2002 (Morris 2003).

Name of Observer (please print): William Morris

Signature: [signature]

Date: 11/28/2003

Address: 1300 College Road
Fairbanks, AK 99701

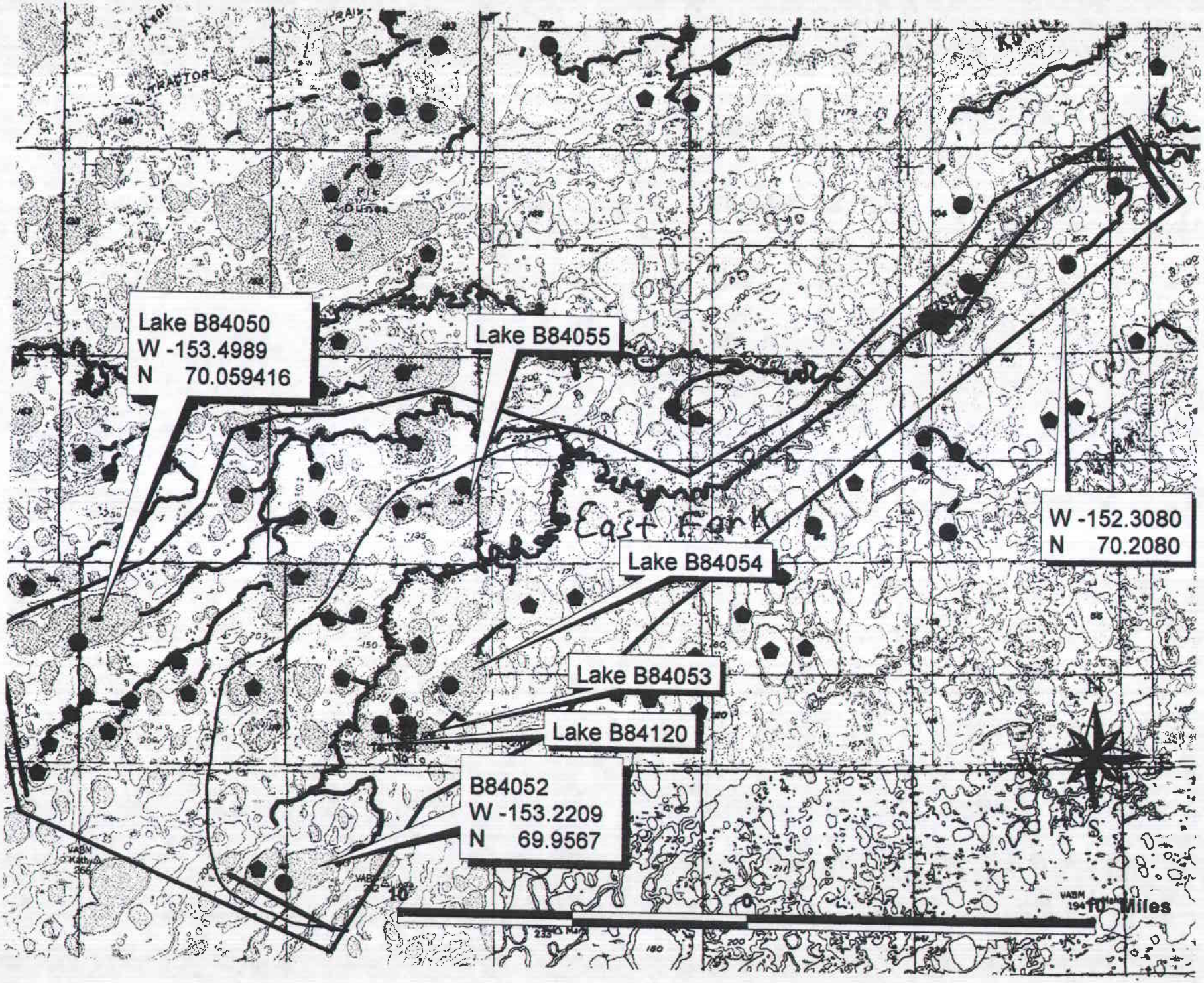
This certifies that in my best professional judgment and belief the above information is evidence that this waterbody should be included in or deleted from the Fish Distribution Database.

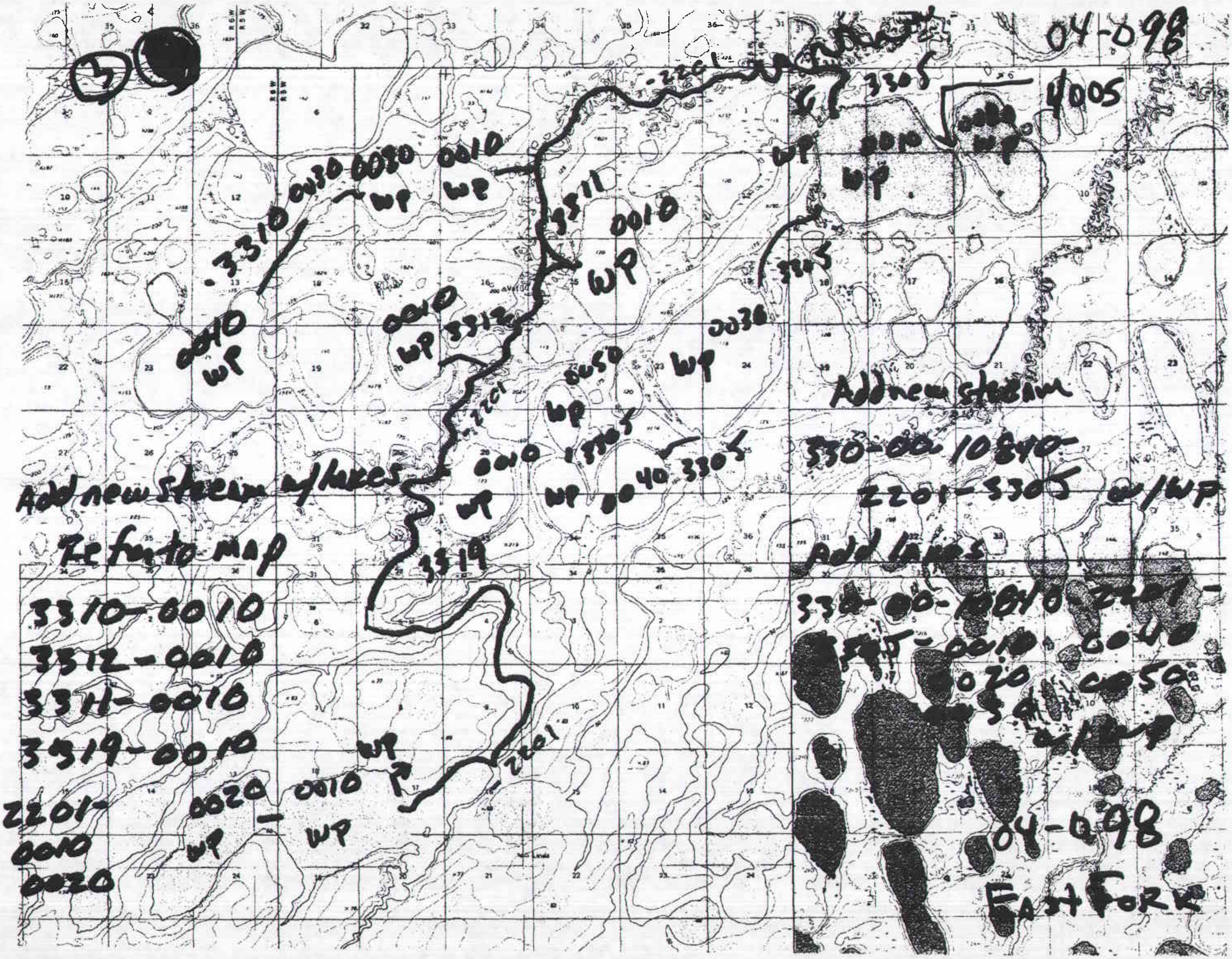
Signature of Area Biologist: [signature]

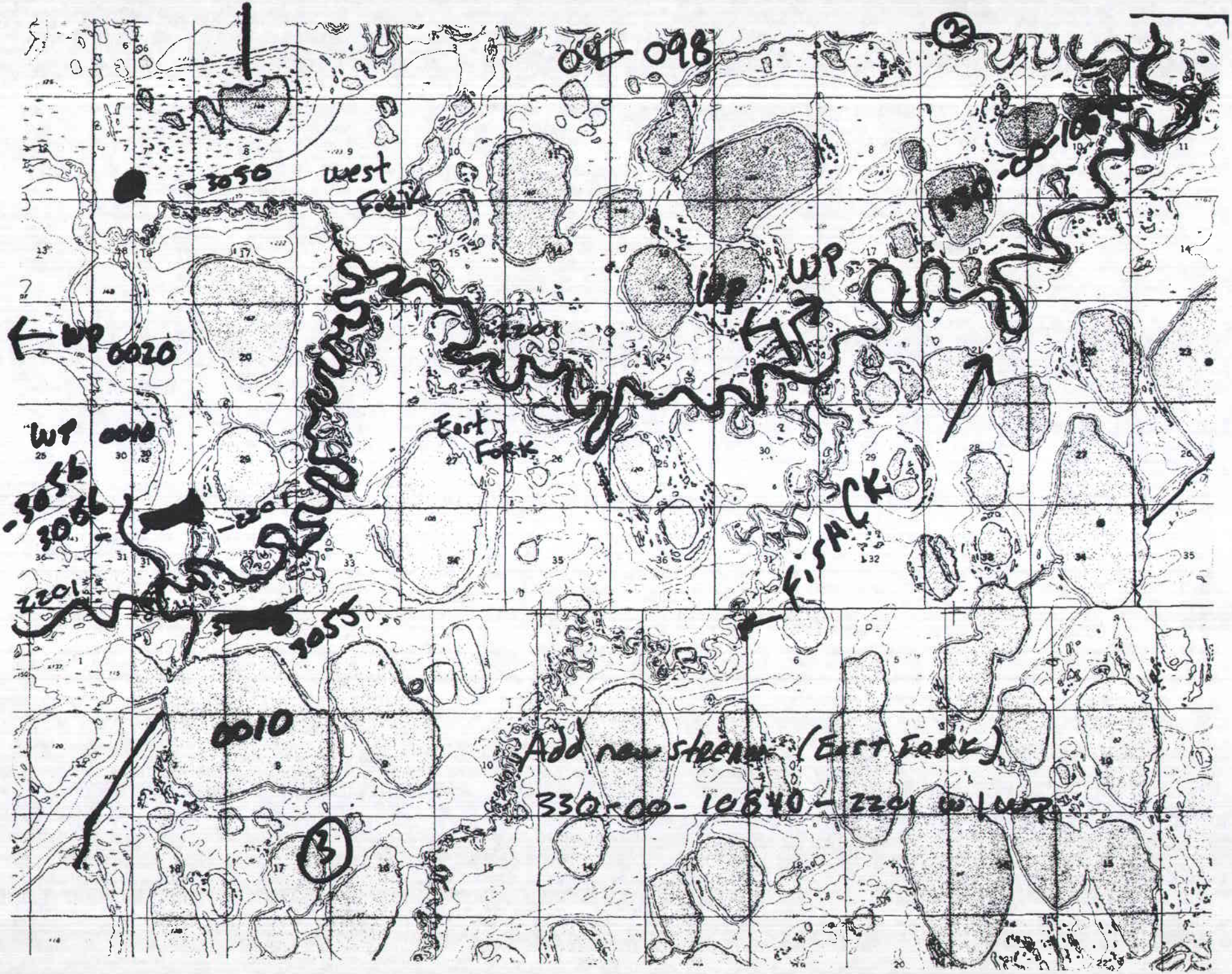
Name of Area Biologist (please print): John Burr

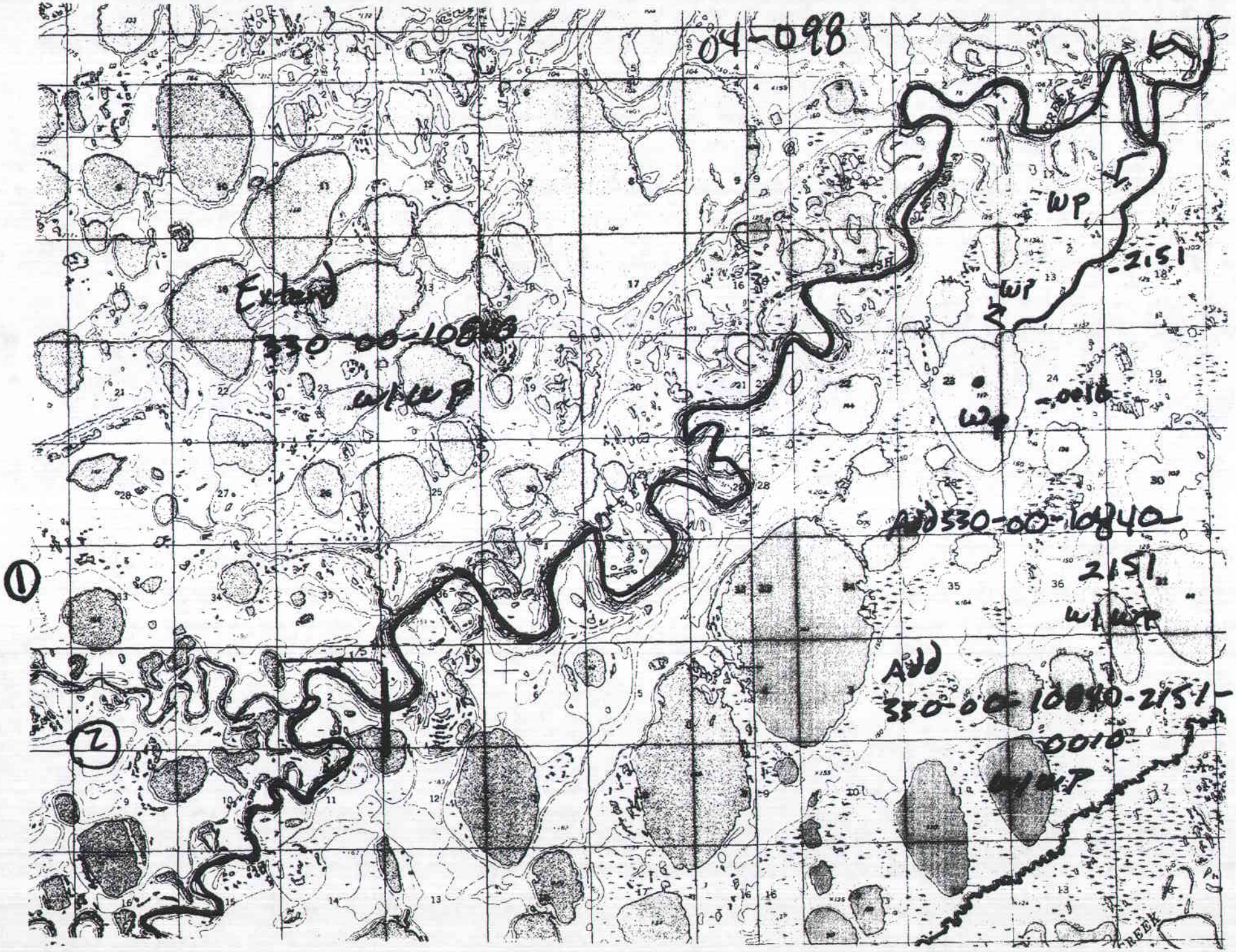
Revision 04/03

Add new streams & lakes w/ LEP
Extend existing stream w/ LEP


Lake B84050
W -153.4989
N 70.059416
Lake B84055
East Fork
W -152.3080
N 70.2080
Lake B84054
Lake B84053
Lake B84120
B84052
W -153.2209
N 69.9567
10 Miles


04-098
4005
3305
Add new stream
330-00-10840-
2201-3305 w/WP
Add lakes
Add new stream w/lakes
Refer to map
3310-0010
3312-0010
3311-0010
3319-0010
2201-
0010
0020
04-098
East Fork


84-098
3050
West Fork
WP 0020
WP 0010
3056
3055
2201
East Fork
WP
FISHACK
0010
Add new stream (East Fork)
330-00-10840-2201 @ WP


04-098
WP
-2151
WP
Extend
330-00-10040
WP
-0010
WP
ADD 330-00-10040
2151
WP
ADD
350-00-10040-2151-
0010
WP
CREEK
1
2

(Morris 2003)

Burbot

Burbot within the study group used the Fish Creek, Judy Creek, Inigok Creek and Ublutuoch River systems but used tributary streams and lakes less frequently than Arctic grayling (Figure 16). However, burbot readily moved long distances within the main channel habitats of Inigok Creek, Fish Creek, Judy Creek and one small meandering tributary of Judy Creek. Burbot also used the lower several kilometers of the Ublutuoch River within the lowest gradient reach of the system; habitats upstream from the deepest portion of the Ublutuoch River were not used by burbot (Figure 16). Burbot were relocated as far upstream in Inigok Creek as 30 km from the mouth; however, the majority of relocations for burbot occurred within the lower 10 km of Judy Creek and the 40 km stretch of Fish Creek upstream from the mouth of the Ublutuoch River. Burbot were relocated in a small tributary of Judy Creek, roughly 35 km upstream from its confluence with Judy Creek, in both 2001 and 2002 (Figure 16).

Burbot relocation rates were reasonably high throughout the study and although each fish was not relocated during each tracking event, all burbot were relocated during at least one tracking event after break-up 2002. Most notable from the burbot tracking conducted during 2001/2002 were the expansive movements throughout the systems. Burbot 1352 remained in the same 10 km stretch of Fish Creek, upstream from Judy Creek, from the time it was tagged in August 2001 through late-June 2002. By mid-August 2002, the fish was 25 km farther upstream in Fish Creek from its June location. This fish represents the most sedentary burbot of the eight tagged. Some fish made extensive movements up nearby drainages. Burbot 1326, for example, was relocated 30 km upstream in Inigok Creek in June 2002. Upon its last relocation in late-September 2001 the fish was downstream 10 km from Judy Creek in Fish Creek. This fish moved minimally 100 km between freeze-up 2001 and mid-June 2002. The first burbot tagged in the study (Burbot 0176) on 27 June 2001, moved several kilometers upstream in Judy Creek and by 20 September 2001 was over 35 km upstream in a small tributary to Judy Creek. Late-November radio-tracking relocated the same burbot some 70 km away in the lower Ublutuoch River. By mid-August 2002 the fish had moved upstream of Judy Creek in Fish Creek, another 30 km movement from its November 2001 location. Burbot 1380 exhibited similar movements up the same small Judy Creek tributary during summer 2002, moving minimally 30 to 40 km between

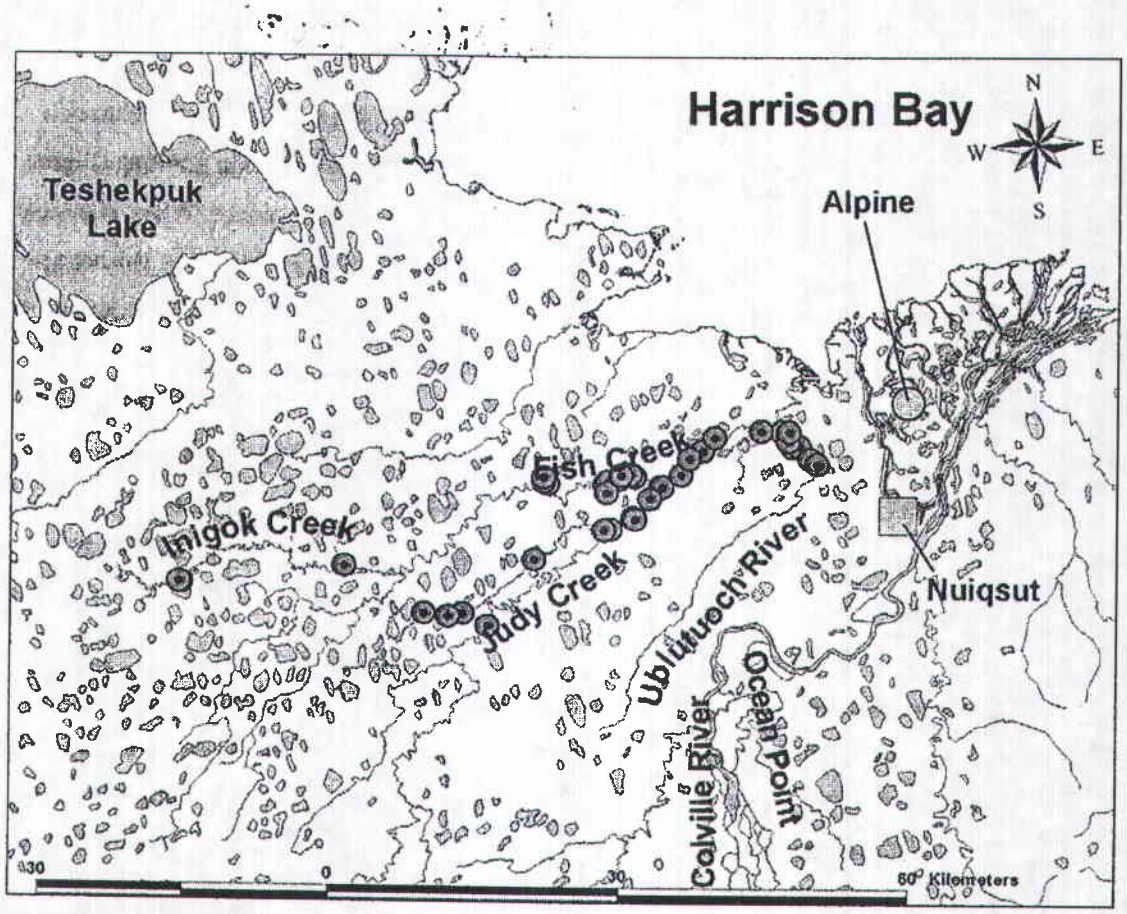


Figure 16. Map of all burbot relocations from June 2001 through June August 2002. The map illustrates the geographic areas and the extent of system use by the tagged population of burbot in the study program.

relocations in summer 2002. While no burbot were outfitted with transmitters in the Ublutuoch River, four of the eight radio-tagged burbot used the Ublutuoch River during the study. Complete movements histories are provided for each fish in Appendix III.

Broad Whitefish

Broad whitefish within the study group exhibited the most diverse movement patterns, readily using main channel habitats, small off-channel systems and numerous lakes within the study area (Figure 17). Broad whitefish movements within the Fish Creek/Judy Creek complex exhibited similar movements to radio-tagged burbot and Arctic grayling and upstream relocation extremes were nearly identical. The majority of broad whitefish relocations occurred within the lower 15 km of the Ublutuoch River and that portion of Fish Creek upstream from the Ublutuoch River

roughly 5 km. Most relocations in lower Fish Creek occurred within the drainages associated with Lake MC7916. Unlike movements of burbot and Arctic grayling, broad whitefish used freshwater habitats within the Colville River as well. This movement required a short easterly migration into Harrison Bay to enter one of the Colville River delta's distributaries. Most fish moved upstream of the delta head towards or to Ocean Point. All Colville River relocations were from just downstream of the Itkillik River to Ocean Point (Figure 17).

Fish Creek and Judy Creek Broad Whitefish

Broad whitefish relocation success rates were consistently high (Table 3), even though the amphidromous life style of the species enables them to move between freshwater systems along the coast. Four broad whitefish likely moved to distant river systems along the coast shortly after being tagged. Broad whitefish 1315 and 0725 were tagged in the Ublutuoch River during summer 2001; both were relocated successfully within a few days of tagging and then left the study area. Two broad whitefish tagged on 25 June 2001 in Lake MC7916 also left the study area within a few days of being tagged (0103 and 0091). Broad whitefish 0103 had moved into Fish Creek a few kilometers upstream from the lake by 28 June 2001, and was never relocated again. Broad whitefish 0091 was relocated within Lake MC7916 on 28 June 2001; the fish was never relocated after that date. These four fish immediately left the study area and represent 19% of our radio-tagged broad whitefish. Two broad whitefish appeared relatively sedentary and never were relocated outside of the Ublutuoch River. Broad whitefish 0548 and 0200 were both tagged in July 2001 and subsequently made movements into the lower portion of the Ublutuoch River during winter. They made only slight upstream movements within the drainage during summer 2002. However, the two fish may have moved more extensively than their tracking results indicated. Broad whitefish 0520 also was tagged in July 2001 within the Ublutuoch River and typically was relocated within the Ublutuoch River during tracking events, although on one occasion the fish ventured 25 kilometers upstream in Fish Creek. The fish remained in the Ublutuoch River through 25 July; however, by 16 August 2001 the fish had moved some 12 km downstream in the Ublutuoch River and then upstream in Fish Creek roughly 25 km. Subsequent tracking on 20 September 2001 relocated the fish back within the lower 10 km of the Ublutuoch River. The two fish showing more sedentary movements may have made similar and undetected movements between relocation events.

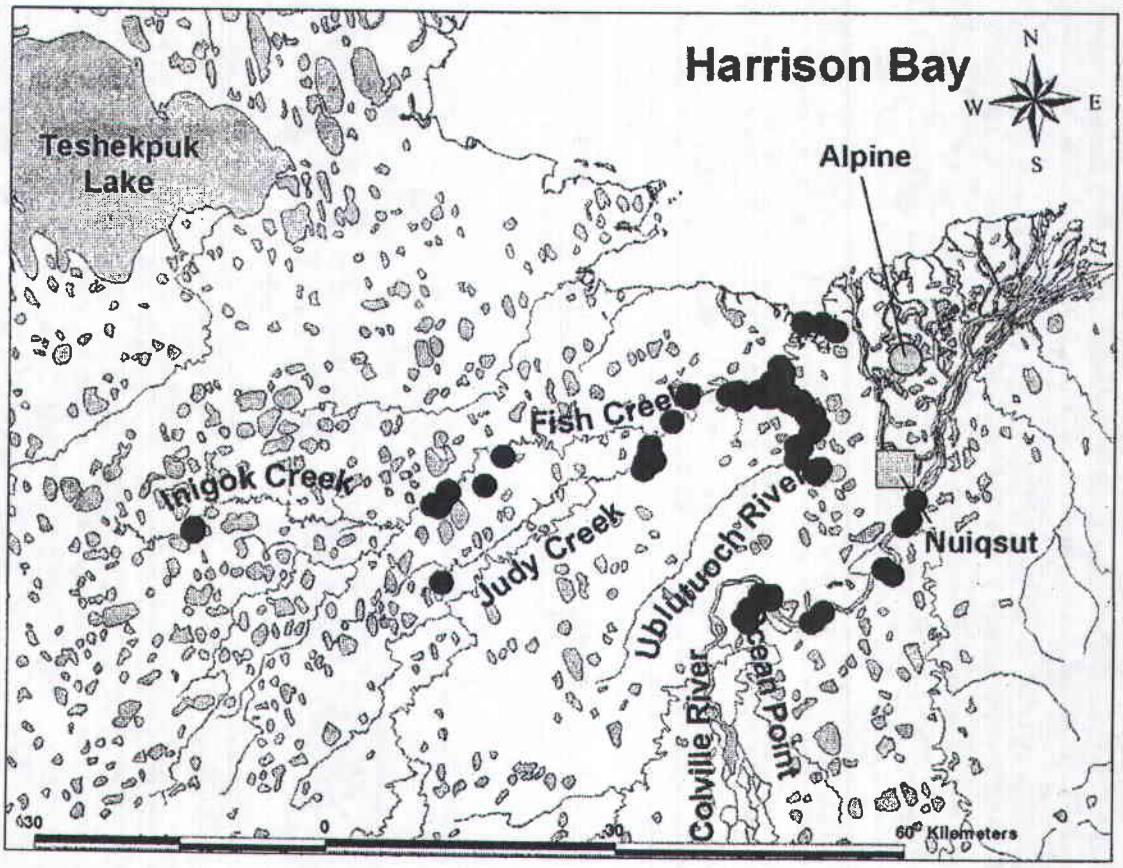


Figure 17. Map of all broad whitefish relocations from August 2001 through June 2002. The map illustrates the geographic areas and the extent of system use by the tagged population of broad whitefish in the study program.

The majority of broad whitefish within the study group remained within the freshwater systems of the Fish Creek/Judy Creek/Ublutuoch River complex (Appendix III). Many made extensive movements within the main channels and to lakes and tributary systems.

Areas of use and extents of upstream movements were similar to those observed with Arctic grayling and burbot. Broad whitefish 0519 was tagged in the Ublutuoch River during June 2001 and remained there until sometime after break-up 2002. It was relocated on 15 August 2002 some 70 km away in a lake off-channel from the small Judy Creek tributary that was also used by tagged burbot and Arctic grayling. Broad whitefish 0184 illustrates a within season nomadic

movement pattern observed with several broad whitefish in the study and observed with broad whitefish studied in the Sagavanirktok River region near Prudhoe Bay (Morris 2000). The fish was tagged in the Ublutuoch River in June 2001, moved to Lake MC7916 off of Fish Creek by 12 July 2001, returned to the Ublutuoch River by 30 August 2001, and finally proceeded to the lower 4 km of Judy Creek for wintering. This fish almost certainly did not survive the winter in lower Judy Creek; all mid- and post-break-up relocations occurred slightly farther downstream as the season progressed, suggesting downstream drifting of the carcass (see map in Appendix III). Broad whitefish 0518 moved the furthest distance within the study area in the shortest time period when it moved 75 km from the Ublutuoch River to upper Fish Creek between 20 July and 25 July 2001. The fish subsequently moved upstream in Fish Creek to winter; wintering survival was not conclusively determined for this fish. Similar to Arctic grayling and burbot in the region, broad whitefish used off-channel and main channel habitats within Inigok Creek. Broad whitefish 1506, tagged in the Ublutuoch River, appeared to winter within the Ublutuoch River during winter 2001/2002 and then moved into the Inigok Creek drainage where it was relocated in a small off-channel lake during June and August 2002 surveys..

Colville River Broad Whitefish

A group of five broad whitefish migrated from the Fish Creek/Judy Creek/Ublutuoch River area to winter in the Colville River during winter 2001/2002. These five broad whitefish (~24%, [0847, 0778, 0776, 0104 and 0102]) each returned to systems within the northeast NPR-A the following open water season. Broad whitefish 0847 was tagged in the Ublutuoch River in June 2001, was first relocated in a small inside channel at Ocean Point in the Colville River (a channel system located just east of the inside meander of the main channel) on 20 September 2001, wintered just downstream of Ocean Point, moved to Lake MC7916 in lower Fish Creek by 25 June 2002 and by 15 August 2002 had returned to the Ublutuoch River and was relocated in a small off channel lake. This same small lake was used by three Arctic grayling and another broad whitefish during summer 2002. Another broad whitefish tagged in the Ublutuoch River during late-June 2001 was not relocated again until 4 May 2002, when it was relocated in the Colville River between the mouth of the Itkillik River and Ocean Point. During break-up the fish was relocated just downstream from the Itkillik River; however, by June 2002 the fish had returned to the lower Ublutuoch River and was relocated in the same general area of the

Ublutuoch River during mid-August 2002. Broad whitefish 0776 was tagged in the Ublutuoch River in July 2001 and was next relocated roughly one month later in the Colville River downstream from Ocean Point. By 20 September 2001 the fish had moved to the same inside channel of Ocean Point as fish 0847. The fish subsequently was relocated in June and August 2002 in a small off-channel lake off the Ublutuoch River with fish 0847 (and three Arctic grayling). Broad whitefish 0102 also used the Colville River during winter 2001/2002. The fish was tagged in June 2001 in Lake MC7916 and was not relocated again until 23 November 2001 when it was relocated in the Colville River near the mouth of the Itkillik River. Break-up surveys again relocated the fish in generally the same area of the Colville River; however, by late-June 2002 the fish had moved back into Fish Creek but was located roughly 50 km upstream in a lake at the head of a small 4 km long tundra drainage.

Broad whitefish 0104 is perhaps the most interesting of the Colville River broad whitefish as the fish made multiple movements between the Fish Creek area and the Colville River. The fish was initially tagged in Lake MC7916 in late-June 2001 where it remained until at least 12 July 2001. By 25 July 2001 the fish was relocated in the Colville River in the small inside channel used by other broad whitefish (discussed above). This broad whitefish spent the entire fall and winter within the small channel of the Colville River and was relocated there on 22 May 2002. Late-June surveys later relocated the fish in a small lake adjacent to Lake MC7916 within the same drainage system in lower Fish Creek. Surveys flown in August 2002 relocated the fish back in the same channel at Ocean Point in the Colville River. This same channel was used during winter 1998/1999 by at least one broad whitefish radio-tagged in the Prudhoe Bay area near the Sagavanirktok River during 1998. Additionally, another broad whitefish from that study was captured in a subsistence net likely just downstream from Ocean Point (Morris 2000).

Statistically significant differences in the size of fish between broad whitefish using the Colville River and other broad whitefish within the study group were not detected (Wilcoxin Rank Sum Mean Rank Colville = 12.4, Mean Rank non-Colville = 10.6, Exact $p = 0.72$). Sample sizes were markedly different with only five fish going to the Colville River and 17 fish never going to the Colville River. Median size for broad whitefish relocated in the Colville River was 485 mm whereas the median size for the remaining broad whitefish was 454 mm; however, the mean

lengths were nearly identical (Colville = 478 mm, non-Colville = 472 mm). Information on fish condition, while noted for many fish, was inadequate to perform any additional comparative analyses. Appendix II presents descriptive and comparative statistics for Colville River broad whitefish.

Wintering Areas

Location of wintering areas throughout this region of the northeast NPR-A was identified as a major goal for this research. Several have been identified as significant for fish using the Fish Creek/Judy Creek/Ublutuoch River drainages. Determination of wintering areas first concentrated on winter relocation data for each species (Figures 18 – 20). Only two Arctic grayling were definitively relocated at wintering areas; one in the lower Ublutuoch River and one in Fish Creek (Figure 18). Burbot winter relocations were similar. Three were found within the lower Ublutuoch River between November 2001 and May 2002, and one burbot successfully overwintered in Fish Creek just upstream from Judy Creek (Figure 19). Broad whitefish winter relocations were more numerous but generally were located within the same areas with some exceptions (Figure 20). Broad whitefish used the Ublutuoch River, Fish Creek, Judy Creek and the Colville River for wintering. The Colville River was used by 24% of broad whitefish tagged while the lower Ublutuoch River was used by 33% of broad whitefish tagged in 2001. Additionally, several deep lakes off of Fish, Judy and Inigok creeks were likely used for wintering by fish. Some broad whitefish tagged in 2001 moved to deep off-channel lakes in summer 2002. It is unknown if these fish wintered in the lakes during winter 2002/2003.

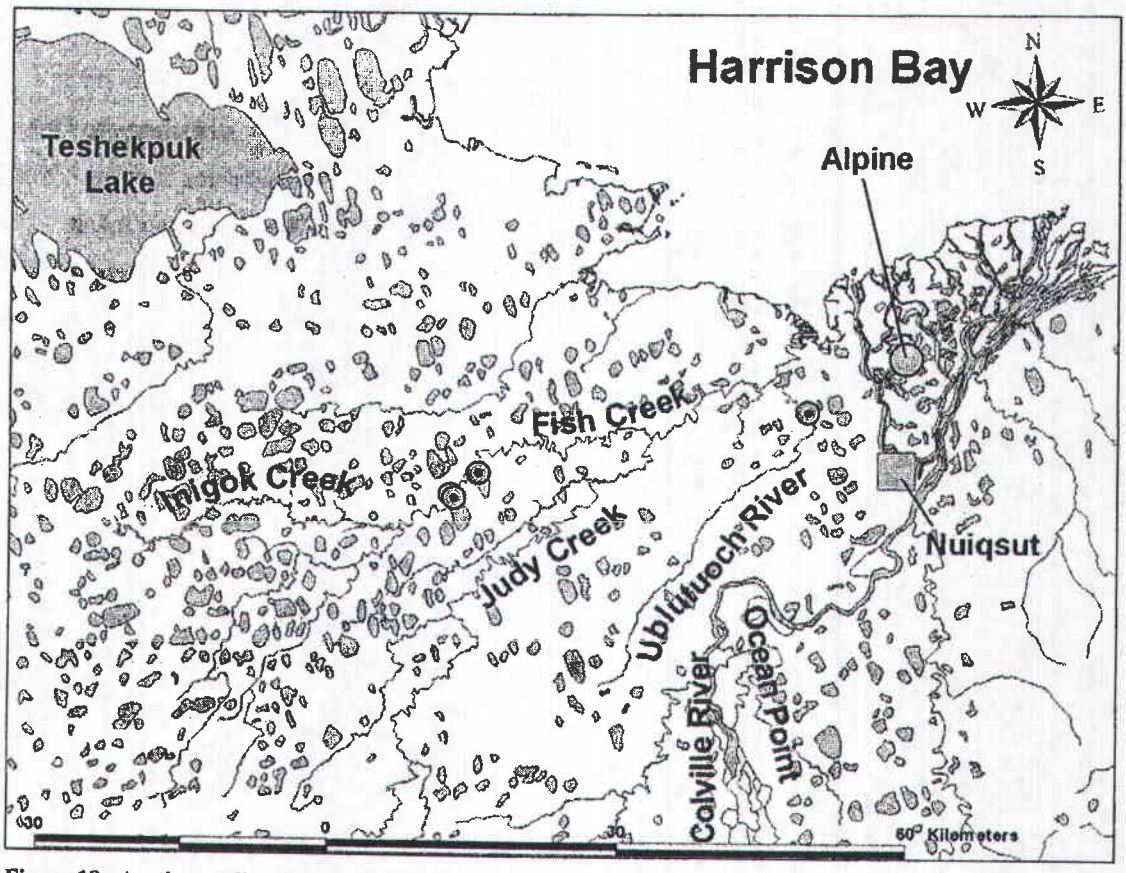


Figure 18. Arctic grayling November 2001/May 2002 relocations were limited and occurred only in the Ublutuoch River and in upper Fish Creek. However, the Arctic grayling using upper Fish Creek may not have survived winter 2001/2002.

Table 2. Catches of fish from NPR-A sampling with gill nets, 1999-2000

Region	Lake	Date	Duration (hours)	Broad Whitefish	Least Cisco	Arctic Grayling	Alaska Blackfish	Ninespine Stickleback	Total Catch
Ublutuoch									
	L9817	Jul 17 99	7.5						0
	L9818	Jul 17 99	7.1						0
	L9819	Jul 19 99	7.2						0
	L9822	Jul 16 99	6.5						0
	L9823	Jul 16 99	6.3						0
	L9824	Jul 18 99	6.7						0
	L9825	Jul 18 99	6.8		1	13			14
	L9832	Jul 19 99	3.2						0
	L9914	Aug 4 99	2.6						0
	L9915	Jul 27 99	5.7		3				3
	M9912	Jul 12 99	6.3						0
	M9913	Jul 12 99	5.4						0
	M9922	Jul 15 99	6.4						0
		Aug 1 00	20.5						0
	M9923	Jul 17 99	4.0						0
		Aug 1 00	15.1						0
	M9924	Jul 18 99	2.2						0
	M9925	Jul 18 99	6.4						0
	M9930	Jul 27 99	5.7						0
	MC7917	Aug 4 99	4.0		10				10
	W2.1	Aug 3 99	6.7	2	3				5
	W3.1	Jul 22 99	1.4	1	1				2
	X1.1	Jul 19 99	6.2						0
	X1.2	Jul 19 99	6.1						0
	X2.1	Jul 31 99	7.7						0
	X3.1	Aug 4 99	1.8				1		1
	X4.1	Jul 23 99	0.6	1	4				5
	X4.2	Jul 23 99	1.6	2	7				9
	Y2.1	Jul 31 99	5.0						0
Fish Ck Confluence									
	L9916	Jul 14 00	2.9		9				9
	M9901	Jul 9 99	6.8			29			29
	M9902	Jul 9 99	5.9						0
	M9903	Jul 10 99	3.1						0
		Jul 16 99	6.8						0
	M9904	Jul 10 99	3.4						0
	M9905	Jul 10 99	3.9						0
	M9906	Jul 15 99	7.6						0
	M9907	Jul 15 99	8.2						0
	M9908	Jul 11 99	4.9						0
	M9909	Jul 11 99	5.0	2	6				8
	M9910	Jul 11 99	1.2			4			4
	M9911	Jul 17 99	6.3	14	2				16
	M9914	Jul 12 99	2.3						0
	M9915	Jul 13 99	5.5						0
	M9916	Jul 13 99	6.3						0
	M9917	Jul 13 99	8.7			3			3
	M9918	Jul 14 99	6.3		1	1			2
	M9919	Jul 14 99	4.9		1				1
	M9920	Jul 14 99	2.8						0

Table 2. Catches of fish from NPR-A sampling with gill nets, 1999-2000

Region	Lake	Date	Duration (hours)	Broad Whitefish	Least Cisco	Arctic Grayling	Alaska Blackfish	Ninespine Stickleback	Total Catch
	M9921	Jul 15 99	4.3						0
	M9926	Jul 20 99	5.1						0
	M9927	Jul 20 99	5.2						0
	M9928	Jul 20 99	1.6	3	13				16
	M0001	Jul 12 00	5.1						0
	M0002	Jul 13 00	4.7						0
		Jul 14 00	1.8		1				1
	M0003	Jul 13 00	4.4						0
		Jul 14 00	1.5						0
	M0005	Jul 15 00	6.0					3	3
	M0006	Jul 15 00	6.8				1		1
	M0007	Jul 16 00	8.7						0
	M0008	Jul 16 00	5.2						0
	M0009	Jul 17 00	6.8						0
	M0010	Jul 17 00	8.0						0
	M0020	Jul 27 00	1.8		7				7
	M0021	Jul 27 00	2.7		7				7
	M0022	Jul 29 00	8.8						0
	M0023	Jul 29 00	0.9						0
	M0024	Jul 29 00	10.3						0
	M0025	Jul 31 00	8.0						0
	M0028	Aug 2 00	8.0						0
	M0032	Aug 4 00	8.5						0
Judy Creek									
	L9911	Jul 25 99	4.1						0
	M0011	Jul 19 00	10.8						0
	M0012	Jul 20 00	10.2						0
	M0013	Jul 20 00	10.0						0
	M0014	Jul 21 00	14.3						0
	M0015	Jul 21 00	12.2						0
	M0016	Jul 22 00	12.7						0
	M0017	Jul 24 00	2.2						0
	M0029	Aug 3 00	10.9						0
	M0030	Aug 3 00	11.0						0
	M0031	Aug 3 00	11.1						0

Table 3. Catches of fish from NPR-A sampling with minnow traps, 2000.

Minnow Traps (2 per lake)

NPR-A Region	Lake	Date	Trap Effort (hours)	Ninespine Stickleback	Total Catch
Ublutuoch					
	M9922	8/1/00	21.35	seen	1
	M9923	8/1/00	0.00		0
Fish Ck Confluence					
	M0020	7/27/00	1.92		0
	M0021	7/27/00	4.00		0
	M0022	7/29/00	10.00		0
	M0023	7/29/00	3.00		0
	M0024	7/29/00	11.17		0
	M0025	7/31/00	9.50		0
	M0028	8/2/00	11.17	1	1
	M0032	8/4/00	31.83		0
Judy Creek					
	M0011	7/19/00	9.83	19	19
	M0012	7/20/00	8.50		0
	M0013	7/20/00	8.50		0
	M0014	7/21/00	15.33		0
	M0015	7/21/00	10.50		0
	M0016	7/22/00	14.00	1	1
	M0017	7/24/00	5.67		0
	M0029	8/3/00	12.00	3	3
	M0030	8/3/00	12.00		0
	M0031	8/3/00	11.50		0

State of Alaska
Department of Fish and Game
Sportfish Division

Nomination Form
Fish Distribution Database

ALASKA DEPT OF FISH & GAME

Region: ARCTIC

USGS Quad: Harrison Bay ~~A/1~~ 07

Fish Distribution Database Number of Waterway: 330-00-10840-2017 ~~-2017-3013~~

Name of Waterway: Ublutuoch River and a tributary

☑ USGS Name ☐ Local Name

☐ Addition ☐ Deletion ☐ Correction ☑ Backup Information

For Office Use

Nomination #	C4 455		
Revision Year:	2006	Fisheries Scientist	2/24/05 Date
Revision to:	Atlas ____ Catalog ____ Both X	FDD Project Biologist	12-15-04 Date
Revision Code:	B-2	Drafted	Date

OBSERVATION INFORMATION

Species	Date(s) Observed	Spawning	Rearing	Present	Anadromous
Broad whitefish (BDWF)		See	Map and Attached	Data	☑
Humpback whitefish (HBWF		See	Map and Attached	Data	☑
Chinook Salmon (KS)	no spawning observed	X		3	☑
Arctic Grayling (AG)					☐
					☐

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: This nomination is to add additional fyke net data to the catalog for the Ublutuoch River and a Tributary Accepted to the catalog in 2004 (330-00-10840-2017-3013). The nomination also adds Chinook Salmon to the Ublutuoch River. See attached map for Net locations and species descriptions.

Data are from "Baseline Surveys of Fish Habitats in Eastern NPR-A, Summary Data Report, September 2003" prepared by MJM Research, 1012 Shoreland Drive, Lopez Island, WA, for ConocoPhillips Alaska, Inc. and Anadarko Petroleum Corp and 2004 unpublished catch data from Moulton, and are attached.

whitefish nominated previously

Add Kp to 330-00-10840-2017 & 330-00-10840.

Name of Observer (please print): William Morris

Signature: [signature]

Date: 11/9/2004

Address: AK. Dept Nat Resources. OHMP

1300 College Road, Fairbanks, AK 99701

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 Fish Distribution Database.

Signature of Area Biologist: [signature]

Name of Area Biologist (please print): John Burr

Revision 04/03

Catches of fish by fyke nets in eastern NPRA creeks during 2004.

	B0401			F0401			F0402						U0102		
SPECIES	(DS)	(US)	F0401	(DS)	(US)	F0402	(DS)	(US)	F0405	F0406	F0407	U0102	(DS)	(US)	U0301
Chinook salmon													1	3	
Broad whitefish	26	96	4	3	1	15	1	2					22	43	11
Humpback whitefish	6	18													
Least cisco	5	7	1										4	8	1
Round whitefish	3														
Arctic grayling	1,486	351	621	405	149	181		5	11	2		17	4	77	651
Burbot			1		2										
Alaska blackfish		2	2	2	1	56			53	29	4				
Ninespine stickleback	245	693	51	650	512	4,989	87	14	1,074	444	2,713	5		220	71
Slimy sculpin	14	3		4	1	36	2	8				1			4
Total catch	1,785	1,170	680	1,064	666	5,277	90	29	1,138	475	2,717	23	30	348	738
Effort (hours)	466.0	467.1	278.9	527.2	525.2	389.6	50.1	50.3	311.3	215.3	259.6	94.8	284.0	305.3	303.2

Location of fyke net stations fished on NPRA creeks during 2004.

Station	Location	Dates Fished	NAD83 Latitude	NAD83 Longitude
B0401DS	Bill's Creek (trib to Ublutuoch)	Jul 13-Aug 24	70.22592	151.26387
B0401US	Bill's Creek (trib to Ublutuoch)	Jul 13-Aug 24		
F0401	Searay Creek (trib to Ublutuoch, CK0301)	Jun 16-Jul 12	70.27969	151.33000
F0401DS	Searay Creek (trib to Ublutuoch, CK0301)	Jul 13-Aug 24		
F0401US	Searay Creek (trib to Ublutuoch, CK0301)	Jul 13-Aug 24		
F0402	trib to Ublutuoch (CK0302 in 2003 Report)	Jun 16-Jul 16	70.30246	151.27462
F0402DS	trib to Ublutuoch (CK0302 in 2003 Report)	Jul 29-30		
F0402US	trib to Ublutuoch (CK0302 in 2003 Report)	Jul 29-30		
F0405	Fish Ck trib (CK16C in 2003 Report)	Jun 16-Jul 31	70.27519	151.48118
F0406	Fish Ck trib(F0306A in 2003 Report)	Jun 18-Jul 11	70.28360	151.29025
F0407	Fish Ck trib(F0307A in 2003 Report)	Jun 16-Jul 12	70.27310	151.54366
U0102	Ublutuoch River (as in 2003 Report)	Jul 14-17	70.24875	151.29120
U0102DS	Ublutuoch River (as in 2003 Report)	Jul 30-Aug 24		
U0102US	Ublutuoch River (as in 2003 Report)	Jul 30-Aug 24		
U0301	Ublutuoch River (as in 2003 Report)	Jun 16-Jul 13	70.23952	151.30293

DS = net catching fish moving downstream
US = nett catching fish moving upstream

Table 2. Fish caught by fyke net in small streams of eastern NPR-A during 2003.

All Stations

Species	June Total	July Total	August Total	Total
Broad whitefish	3	153	0	156
Humpback whitefish	1	4	0	5
Least cisco	0	53	0	53
Round whitefish	0	4	1	5
Arctic grayling	274	1,529	44	1,847
Burbot	0	1	1	2
Alaska blackfish	93	25	0	118
Slimy sculpin	1	36	0	37
Ninespine stickleback	10,696	3,013	8	13,717
Effort (hrs)	1,351.3	1,545.9	322.2	3,219.4

Station F01

Species	June Total	July Total	August Total	Total
Broad whitefish	0	3	0	3
Humpback whitefish	0	0	0	0
Least cisco	0	3	0	3
Round whitefish	0	0	0	0
Arctic grayling	105	1,266	23	1,394
Burbot	0	0	1	1
Alaska blackfish	2	0	0	2
Slimy sculpin	0	15	0	15
Ninespine stickleback	369	14	8	391
Effort (hrs)	213.3	260.3	161.2	634.8

Station F02

Species	June Total	July Total	Total
Broad whitefish	1	1	2
Humpback whitefish	0	0	0
Least cisco	0	0	0
Round whitefish	0	0	0
Arctic grayling	10	93	103
Burbot	0	0	0
Alaska blackfish	0	1	1
Slimy sculpin	0	13	13
Ninespine stickleback	35	36	71
Effort (hrs)	214.7	191.1	405.8

Station F03/F03A

Species	F03 Total	F03A Total	Total
Broad whitefish	0	145	145
Humpback whitefish	0	4	4
Least cisco	0	48	48
Round whitefish	0	3	3
Arctic grayling	0	124	124
Burbot	0	1	1
Alaska blackfish	34	9	43
Slimy sculpin	0	0	0
Ninespine stickleback	390	293	683
Effort (hrs)	211.6	262.2	473.8

Station F04

Species	June Total	July Total	August Total	Total
Broad whitefish	2	4	0	6
Humpback whitefish	1	0	0	1
Least cisco	0	2	0	2
Round whitefish	0	1	1	2
Arctic grayling	157	44	21	222
Burbot	0	0	0	0
Alaska blackfish	0	0	0	0
Slimy sculpin	1	8	0	9
Ninespine stickleback	281	24	0	305
Effort (hrs)	215.5	269.2	161.0	645.7

Station F05 (CK 16)

Species	June Total	July Total	Total
Broad whitefish	0	0	0
Humpback whitefish	0	0	0
Least cisco	0	0	0
Round whitefish	0	0	0
Arctic grayling	2	0	2
Burbot	0	0	0
Alaska blackfish	17	2	19
Slimy sculpin	0	0	0
Ninespine stickleback	8,810	69	8,879
Effort (hrs)	187.8	182.5	370.4

Station F06/F06A

Species	F06 Total	F06A Total	Total
Broad whitefish	0	0	0
Humpback whitefish	0	0	0
Least cisco	0	0	0
Round whitefish	0	0	0
Arctic grayling	0	2	2
Burbot	0	0	0
Alaska blackfish	32	4	36
Slimy sculpin	0	0	0
Ninespine stickleback	345	1,687	2,032
Effort (hrs)	188.8	189.3	378.2

Station F07 (CK 17)

Species	June Total	July Total	Total
Broad whitefish	0	0	0
Humpback whitefish	0	0	0
Least cisco	0	0	0
Round whitefish	0	0	0
Arctic grayling	0	0	0
Burbot	0	0	0
Alaska blackfish	8	9	17
Slimy sculpin	0	0	0
Ninespine stickleback	466	890	1,356
Effort (hrs)	119.4	191.3	310.7

State of Alaska
Department of Fish and Game
Habitat and Restoration Division

Nomination for Waters Important to Anadromous Fish

Region: ARCTIC

USGS Quad: Harrison Bay ~~A-2~~ B3

Anadromous Water Catalog Number of Waterway: 330-00-10840-~~####~~ 2019 (0010) 3012-4015

Name of Waterway: Lake MC7916 ☐ USGS Name ☑ Local Name (0010)

10840 - 2118 (0010)(3023)

☑ Addition ☐ Deletion ☐ Correction ☐ Backup Information

For Office Use

Nomination #	03 218		
Revision Year:			
Revision to:	Atlas ____ Catalog ____ Both X	Regional Supervisor	4-3-03 Date
Revision Code:	A-2	AWC Project Biologist	2/Mar/03 Date
		Drafted	12/18/03 Date

OBSERVATION INFORMATION

Species	Date(s) Observed	Spawning	Rearing	Present	Anadromous
Broad Whitefish	June-Sep 2001/2002		see below	see below	☑
Humpback Whitefish	Summer 2001		see below	see below	☑
					☐
					☐
					☐

ALASKA DEPT. OF FISH & GAME
APR 8 - 2003
REGION II
HABITAT AND RESTORATION DIVISION

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:

This nomination adds lake MC7916 and its contiguous tributray streams to the catalog. During 2001 fyke-net sampling identified numerous broad whitefish and humpback whitefish using lake MC7916. Six large adult broad whitefish from the lake were radio-tagged in June 2001. By the end of the study in August 2002, nine broad whitefish had been identified using the lake system. The three fish not tagged in the lake but relocated there, were tagged in the Ublutuoch River. Some fish tagged in the lake in 2001 returned to the lake the following summer in 2002, after wintering in other locations during winter 01/02. Radio-tagged broad whitefish were identified in other lakes connected to lake MC7916 as well. A lake immediately upstream was used and a lake just downstream and east of the lake was used. The lakes upstream also have been nominated as they are directly connected to the lake and data from the area (Morris 2003, Moulton 2000, 2002) suggest that connected lakes are used frquently by broad whitefish. Additionally, local elders from Nuiqsut have identified the system flowing into the lake from the south as fish bearing.

Name of Observer (please print): William Morris

Signature: [signature]

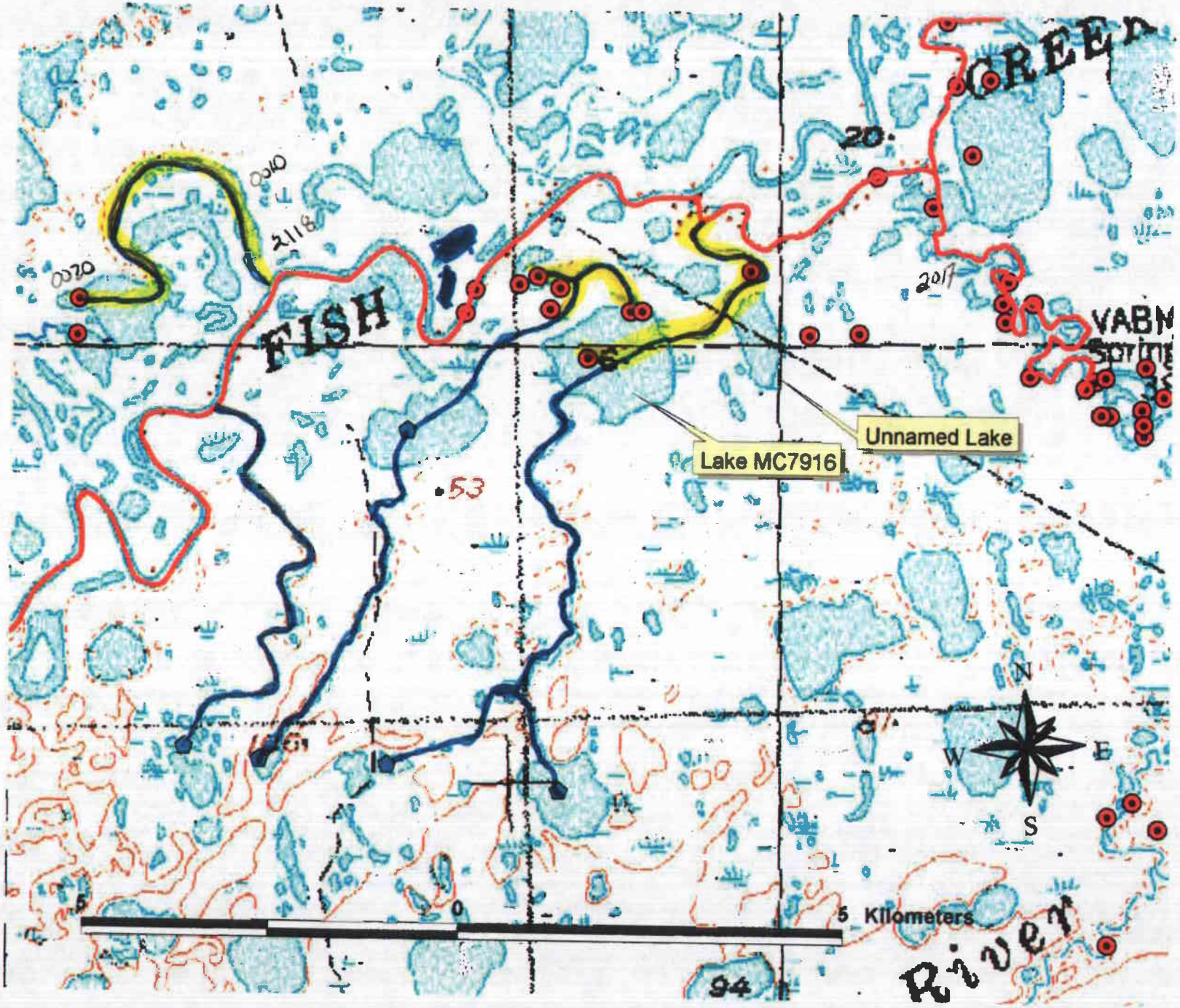
Address: 1300 College Rd
Fairbanks AK 99701

Date: 3/24/2003

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: John Burr [signature]

Revision 3/97


CREEK
FISH
Unnamed Lake
Lake MC7916
N
W
E
S
0
5 Kilometers
River

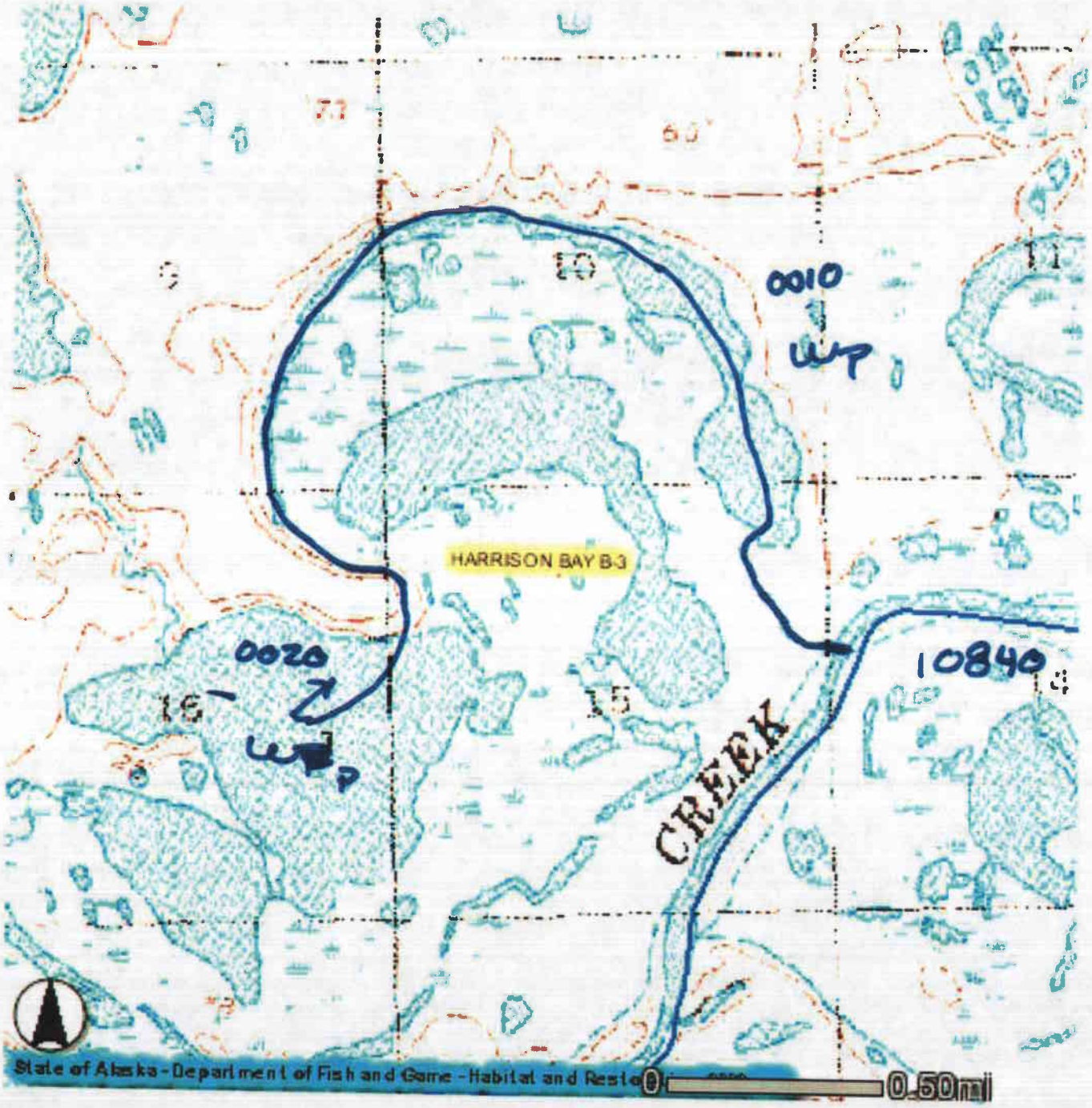
Add 530-00-10840-2019 w/ WP

Add 2019-0010 w/WP

Add 2019-3012 w/WP

add 3012-4015 w/WP

add 3012-0010 w/WP



Add
330-00 -
10840-2118
w/wp
Add 2118-0010
w/wp
2118-0020 w/wp

State of Alaska
Department of Fish and Game
Sportfish Division

Nomination Form
Fish Distribution Database

Region: ARCTIC

USGS Quad: Harrison Bay B-3

Fish Distribution Database Number of Waterway: 330-00-10840-2019 ~~XXXX~~ 3001 - 0010

Name of Waterway: Fish Creek Tributary and Lake ☑ USGS Name ☐ Local Name

☑ Addition ☐ Deletion ☐ Correction ☐ Backup Information

For Office Use

Nomination #: 4 460
Revision Year: 2006
Revision to: Atlas ___ Catalog ___ Both ✓
Revision Code: A-2

Fisheries Scientist — Date: 2/24/05

FDD Project Biologist — Date: 12-15-04

Drafted — Date:

OBSERVATION INFORMATION

Species	Date(s) Observed	Spawning	Rearing	Present	Anadromous
Broad whitefish (BDWF)	Summer 2003			(F03A)145	☑
Humpback whitefish (HBWF	Summer 2003			(F03A)4	☑
Arctic Grayling (AG)	Summer 2003			(F03A)124	☐
					☐
					☐

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: This Fish Creek Tributary is nominated from its mouth (west of lake with samples iste F03A on map) to and the lake. There is a direct stream connection between Fish Creek Stream 330-00-10840-2019 and the lake with F03A. Additionally during spring, the wetland complex upstream (with F03) is also connected. Catch data are from "Baseline Surveys of Fish Habitats in Eastern NPR-A, Summary Data Report, September 2003" prepared by MJM Research, 1012 Shoreland Drive, Lopez Island, WA, for ConocoPhillips Alaska, Inc. and Anadarko Petroleum Corp and 2004 unpublished catch data from Moulton (Data are attached). Use of the sytem above F03A by anadromous fish is likley occurs but certainly is limited to a short period of the year but research along the Beafort coast suggests these periods of use are important, at least for broad whitefish (Morris, 2003, Morris 2000, ongoing Teshekpuk area whitefish work). Fyke nets were only fished during mid July which certainly would have missed whitefish use of the complex above F03A.

Add new stream & lake w/ WP

Name of Observer (please print): William Morris

Signature: [signature]

Date: 11/9/2004

Address: AK, Dept Nat Resources, OHMP
1300 College Road, Fairbanks, AK 99701

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 Fish Distribution Database.

Signature of Area Biologist: [signature]

Name of Area Biologist (please print): John Burr

Revision 04/03

Moulton, L. L. (MJM Research LLC), 2003. Baseline Surveys of Fish Habitats in Eastern NPR-A, Summary Data Report, September 2003., prepared by MJM Research, 1012 Shoreland Drive, Lopez Island, WA, for ConocoPhillips Alaska, Inc. and Anadarko Petroleum Corp. 16 pp (plus data Appendices)

Moulton, L. L. (MJM Research LLC). 2004. Unpublished 2004 Catch Data from NPR-A Streams.

Morris, W.A., 2003. Seasonal Movements And Habitat Use Of Arctic Grayling (*Thymallus arcticus*), Burbot (*Lota Lota*), And Broad Whitefish (*Coregonus Nasus*) Within The Fish Creek Drainage Of The National Petroleum Reserve-Alaska, 2001-2002. Technical Report No. 03-02. Alaska Department of Natural Resources, Office of Habitat Management and Permitting, Juneau. 110 pp.

Morris, W. A. 2000. Seasonal movements of broad whitefish (*Coregonus nasus*) in the freshwater systems of the Prudhoe Bay oil field. Masters Thesis. University of Alaska Fairbanks. 71 pp.

Table 2. Fish caught by fyke net in small streams of eastern NPR-A during 2003.

All Stations

Species	June Total	July Total	August Total	Total
Broad whitefish	3	153	0	156
Humpback whitefish	1	4	0	5
Least cisco	0	53	0	53
Round whitefish	0	4	1	5
Arctic grayling	274	1,529	44	1,847
Burbot	0	1	1	2
Alaska blackfish	93	25	0	118
Slimy sculpin	1	36	0	37
Ninespine stickleback	10,696	3,013	8	13,717
Effort (hrs)	1,351.3	1,545.9	322.2	3,219.4

Station F01

Species	June Total	July Total	August Total	Total
Broad whitefish	0	3	0	3
Humpback whitefish	0	0	0	0
Least cisco	0	3	0	3
Round whitefish	0	0	0	0
Arctic grayling	105	1,266	23	1,394
Burbot	0	0	1	1
Alaska blackfish	2	0	0	2
Slimy sculpin	0	15	0	15
Ninespine stickleback	369	14	8	391
Effort (hrs)	213.3	260.3	161.2	634.8

Station F02

Species	June Total	July Total	Total
Broad whitefish	1	1	2
Humpback whitefish	0	0	0
Least cisco	0	0	0
Round whitefish	0	0	0
Arctic grayling	10	93	103
Burbot	0	0	0
Alaska blackfish	0	1	1
Slimy sculpin	0	13	13
Ninespine stickleback	35	36	71
Effort (hrs)	214.7	191.1	405.8

Station F03/F03A

Species	F03 Total	F03A Total	Total
Broad whitefish	0	145	145
Humpback whitefish	0	4	4
Least cisco	0	48	48
Round whitefish	0	3	3
Arctic grayling	0	124	124
Burbot	0	1	1
Alaska blackfish	34	9	43
Slimy sculpin	0	0	0
Ninespine stickleback	390	293	683
Effort (hrs)	211.6	262.2	473.8

Station F04

Species	June Total	July Total	August Total	Total
Broad whitefish	2	4	0	6
Humpback whitefish	1	0	0	1
Least cisco	0	2	0	2
Round whitefish	0	1	1	2
Arctic grayling	157	44	21	222
Burbot	0	0	0	0
Alaska blackfish	0	0	0	0
Slimy sculpin	1	8	0	9
Ninespine stickleback	281	24	0	305
Effort (hrs)	215.5	269.2	161.0	645.7

Station F05 (CK 16)

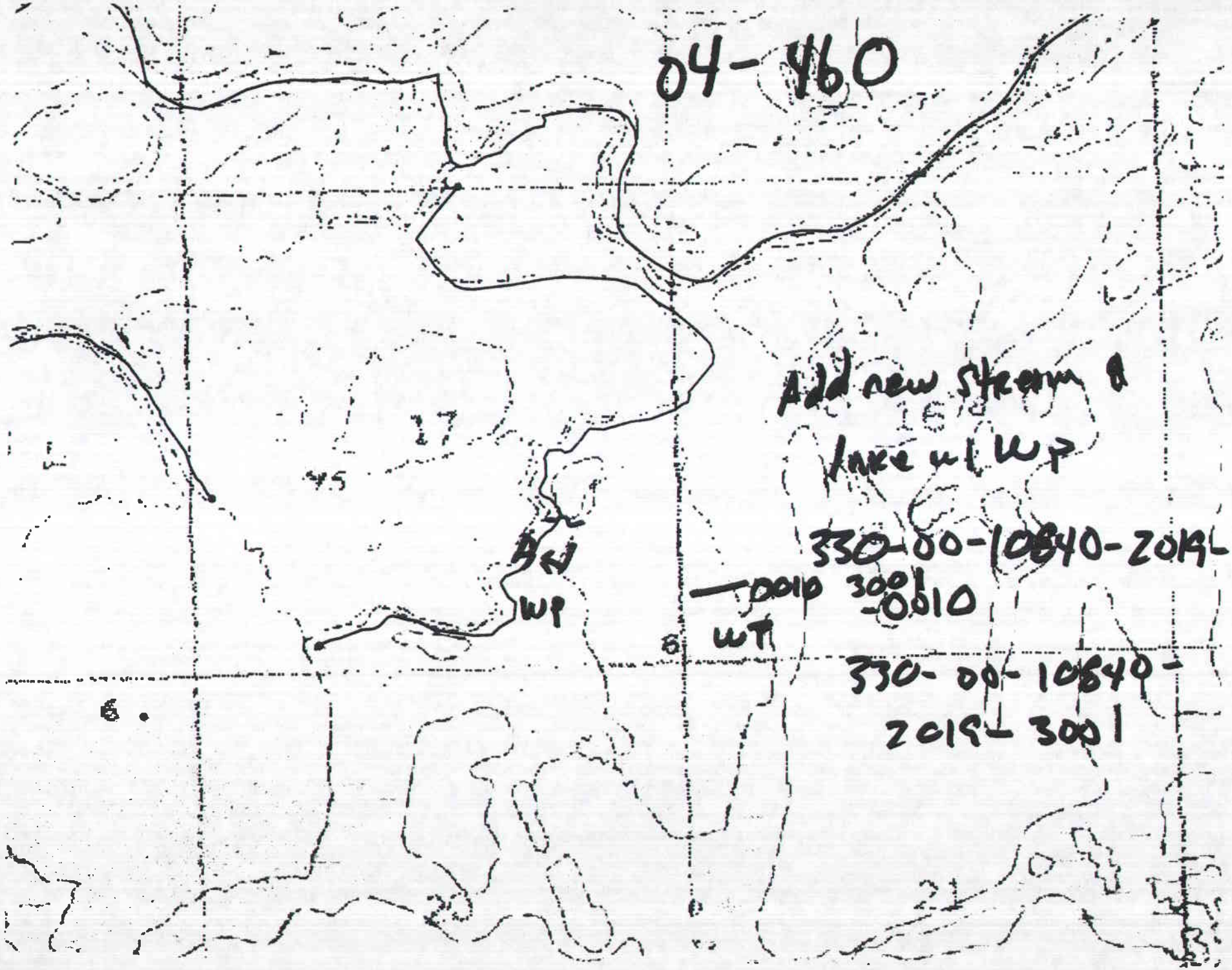
Species	June Total	July Total	Total
Broad whitefish	0	0	0
Humpback whitefish	0	0	0
Least cisco	0	0	0
Round whitefish	0	0	0
Arctic grayling	2	0	2
Burbot	0	0	0
Alaska blackfish	17	2	19
Slimy sculpin	0	0	0
Ninespine stickleback	8,810	69	8,879
Effort (hrs)	187.8	182.5	370.4

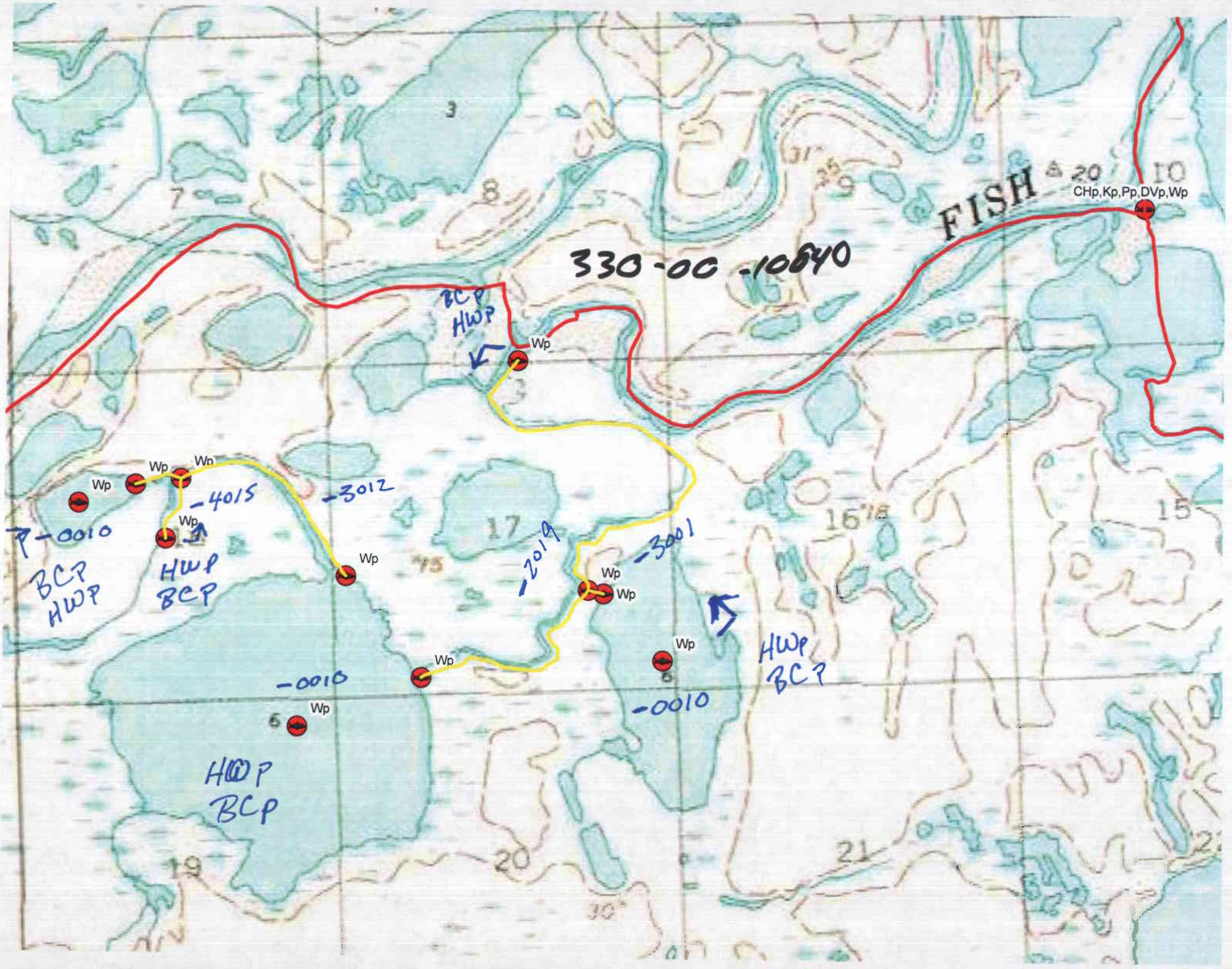
Station F06/F06A

Species	F06 Total	F06A Total	Total
Broad whitefish	0	0	0
Humpback whitefish	0	0	0
Least cisco	0	0	0
Round whitefish	0	0	0
Arctic grayling	0	2	2
Burbot	0	0	0
Alaska blackfish	32	4	36
Slimy sculpin	0	0	0
Ninespine stickleback	345	1,687	2,032
Effort (hrs)	188.8	189.3	378.2

Station F07 (CK 17)

Species	June Total	July Total	Total
Broad whitefish	0	0	0
Humpback whitefish	0	0	0
Least cisco	0	0	0
Round whitefish	0	0	0
Arctic grayling	0	0	0
Burbot	0	0	0
Alaska blackfish	8	9	17
Slimy sculpin	0	0	0
Ninespine stickleback	466	890	1,356
Effort (hrs)	119.4	191.3	310.7


04-460
Add new stream &
lake w/ WP
330-00-10840-2019-
0010 3001
330-00-10840-
2019-3001
WP
WT
17
6
21


FISH
CHp,Kp,Pp,DVp,Wp
330-00-10840
BCP
HWP
Wp
-4015
-3012
-2019
-3001
-0010
HWP
BCP