State of Alaska
Department of Fish and Game
Division of Sport Fish

Nomination Form
Anadromous Waters Catalog

Region: South Central

USGS Quad(s): Tyonek A-4

Anadromous Waters Catalog Number of Waterway: 247-20-10010-2030-~~3018~~ 3012

Name of Waterway: * Middle Creek

☐ USGS Name ☒ Local Name

☒ Addition ☐ Deletion ☐ Correction ☐ Backup Information

For Office Use

Nomination #	120089		
Revision Year:	2013	Fisheries Scientist	9/4/12 Date
Revision to:	Atlas ____ Catalog ____ Both ✓	Habitat Operations Manager	9/4/12 Date
		AWC Project Biologist	6/8/12 Date
Revision Code:	A-1, B-6	SDG Cartographer	9.14.12 Date

OBSERVATION INFORMATION

Species	Date(s) Observed	Spawning	Rearing	Present	Anadromous
coho salmon	July, Aug, Sept. - 2006+2007		X	X	☒
	July - 22 coho				☐
	Aug - 63				☐
	Sept - 126				☐
	Oct - 21				☐

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. Extend stream w/Coho Salmon rearing

Comments: Juvenile coho salmon captured in minnow traps @ site 2003-9 multiple times from July thru Sept. in 2006 and 2007. Update of catalog requested based on review of "Chuitna Coal Project - 2007 Freshwater Aquatic Biology Study Program," and personal recollection. EXTEND Anadromous reach.

Name of Observer (please print): Josh Brekken

Signature: [signature]

Date: 4-18-12

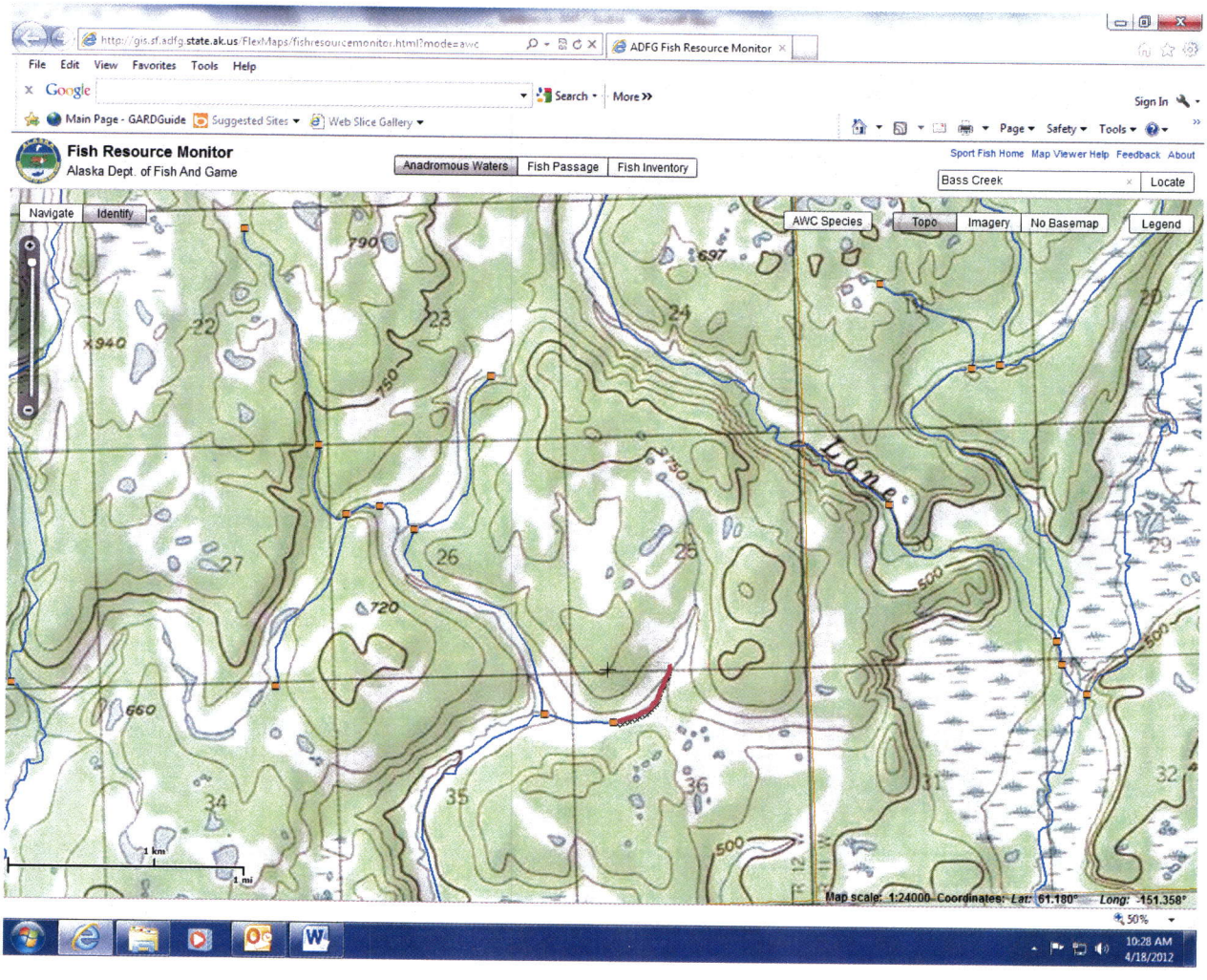
Agency: ADFG

Address: 333 Raspberry Rd
Anchorage, AK 99518

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 Anadromous Waters Catalog.

Signature of Area Biologist: _____ Date: _____ Revision

02/08



Extend – red line

Start: 61.1774,-151.3576
End: 61.1807,-151.3502

Based on Chuitna Coal Project – 2007 Freshwater Aquatic Biology Study Program and personal observations (summer 2006 and 2007) by Josh Brekken.

Juvenile coho salmon were observed (minnow traps) at the upper extent of both requested revisions/updates.

Johnson, J D (DFG)

From: Brekken, Josh M (DFG)
Sent: Wednesday, April 18, 2012 11:48 AM
To: Johnson, J D (DFG)
Subject: AWC Additions Related to Chuitna Coal Project
Attachments: Addition to AWC Chuitna.docx

We were reviewing some of the Chuitna Baseline Studies in relation to the AWC and noticed some short stretches of streams/tributaries that were not included in the AWC but had coho salmon documented in 2006 and 2007 during baseline minnow trapping. I marked up a map, filled out the nomination forms, and I will bring those to your office. I also marked up a couple of screen shots from the AWC and included lat/long coordinates for the beginning and ends of the nominated stream reaches and have attached that to this note.
Please let me know if there is a better way to go about this process or if I can help getting these additions into the AWC or answer questions.
Thanks.
jb

Josh Brekken
Habitat Biologist
Alaska Department of Fish and Game
Division of Habitat
333 Rasperry Road
Anchorage, AK 99518
(907) 267-2113

Johnson, J D (DFG)

From: Brekken, Josh M (DFG)
Sent: Wednesday, April 18, 2012 2:09 PM
To: Johnson, J D (DFG)
Subject: Chuitna Drainage AWC additions - fish numbers
Attachments: Copy of 2006 Fish Collection Data - Streams - AWC Nomination.xls

In the attached spreadsheet you will find minnow trap results from the two sites that I marked on the map to extend/add the stream reaches to the AWC in the Chuitna River drainage. This sheet only includes data from one year (2006) and does not include the 2007 fish numbers, but the site locations are the same. The applicable rows in the spreadsheet have been highlighted in bright yellow and listed below. I have also summarized the juvenile fish numbers below.

<u>*Bass Creek (Stream 2004) - AWC: 247-20-10010-2040</u>
Site 2004-7 (Rows 902-925 in attached spreadsheet)
2 coho in June
1 coho in July
35 coho in Aug
5 coho in September

<u>*Middle Creek (Stream 2003) - AWC: 247-20-10010-2030-3012</u>
Site 2004-7 (Rows 752-778 in attached spreadsheet)
22 coho in July
63 coho in Aug
126 coho in September
21 coho in October

Hope this helps. Let me know if you need anything more please.
Thanks.
jb

Josh Brekken
Habitat Biologist
Alaska Department of Fish and Game
Division of Habitat
333 Rasperry Road
Anchorage, AK 99518
(907) 267-2113

2006 Stream Fish Collection Data

SET DATE SET TIME	RAW SET TIME	CHECK DATE CHECK TIME	RAW CHECK TIME	NUMBER OF HOURS	SITE ID	CREEK	REACH	TRAP	COHO	CHINOOK	PINK	CHUM	SOCKEYE	LAMPREY	DOLLY	RAINBOW	3 SPINE SB	9 SPINE SB	5 SPINE SB	SCULPIN	UNKNOWN	TOTAL CAUGHT	COLLECTED	SPECIFIC COMMENTS	COMMENTS
7-Jun-06	1520	8-Jun-06	1400	22.67	2002-8-A	2002	8	A	38	.	.	.	.	3	.	1	.	.	.	.	.	42			
26-Jun-06	1352	27-Jun-06	1150	21.97	2002-8-A	2002	8	A	63	.	.	.	.	.	.	.	.	.	.	.	.	63			
10-Jul-06	832	11-Jul-06	1000	25.47	2002-8-A	2002	8	A	57	.	.	.	.	.	3	.	.	.	.	.	.	60			
24-Jul-06	1705	25-Jul-06	815	15.17	2002-8-A	2002	8	A	79	.	.	.	.	.	.	.	.	.	.	.	.	79			
7-Aug-06	1520	8-Aug-06	1330	22.17	2002-8-A	2002	8	A	23	.	.	.	.	.	.	.	.	.	.	.	.	23			
21-Aug-06	1405	22-Aug-06	1100	20.92	2002-8-A	2002	8	A	8	.	.	.	.	.	1	1	.	.	.	.	.	10			
4-Sep-06	1403	5-Sep-06	1218	22.25	2002-8-A	2002	8	A	40	.	.	.	.	.	.	3	.	.	.	.	.	43			
22-Sep-06	1115	23-Sep-06	1145	24.50	2002-8-A	2002	8	A	.	.	.	.	.	.	.	.	.	1	.	.	.	1			1 adult coho observed
25-Oct-06		26-Oct-06	1500		2002-8-A	2002	8	A	8	.	.	.	.	.	.	2	.	.	.	.	.	10			NI
7-Jun-06	1503	8-Jun-06	1420	23.28	2002-8-B	2002	8	B	9	.	.	.	.	.	.	.	.	.	.	.	.	9		1	trap pulled from water, trap intact, live fish NI
26-Jun-06	1400	27-Jun-06	1205	22.08	2002-8-B	2002	8	B	24	.	.	.	.	.	.	.	.	.	.	.	.	24			
10-Jul-06	838	11-Jul-06	917	24.65	2002-8-B	2002	8	B	50	.	.	.	.	.	.	.	.	.	.	.	.	50			
24-Jul-06	1700	25-Jul-06	805	15.08	2002-8-B	2002	8	B	53	.	.	.	.	.	1	.	.	.	.	1	.	55			
7-Aug-06	1508	8-Aug-06	1345	22.62	2002-8-B	2002	8	B	64	.	.	.	.	.	.	.	.	.	.	.	.	64			
21-Aug-06	1411	22-Aug-06	1111	21.00	2002-8-B	2002	8	B	3	1	.	.	.	.	.	.	.	.	.	.	.	4			
4-Sep-06	1408	5-Sep-06	1227	22.32	2002-8-B	2002	8	B	24	.	.	.	.	.	1	.	.	.	.	1	.	26			
22-Sep-06	1120	23-Sep-06	1148	24.47	2002-8-B	2002	8	B	.	.	.	.	.	.	.	.	.	.	.	.	.	0		1	trap pulled out of water NI
25-Oct-06		26-Oct-06	1500		2002-8-B	2002	8	B	1	.	.	.	.	.	.	.	.	.	.	.	.	1			NI
7-Jun-06	1515	8-Jun-06	1430	23.25	2002-8-C	2002	8	C	14	.	.	.	.	.	.	1	.	.	.	.	.	15			
26-Jun-06	1415	27-Jun-06	1225	22.17	2002-8-C	2002	8	C	45	.	.	.	.	.	.	.	.	.	.	.	.	45			
10-Jul-06	843	11-Jul-06	933	24.83	2002-8-C	2002	8	C	74	.	.	.	.	.	3	1	.	.	.	1	.	79			
24-Jul-06	1700	25-Jul-06	810	15.17	2002-8-C	2002	8	C	56	.	.	.	.	.	.	.	.	.	.	.	.	56			
7-Aug-06	1515	8-Aug-06	1405	22.83	2002-8-C	2002	8	C	50	.	.	.	.	.	.	.	.	.	.	.	.	50			
21-Aug-06	1415	22-Aug-06	1119	21.07	2002-8-C	2002	8	C	44	.	.	.	.	.	2	.	.	.	.	2	.	48			
4-Sep-06	1542	5-Sep-06	1233	20.85	2002-8-C	2002	8	C	16	.	.	.	.	.	.	.	.	.	.	.	.	16			
22-Sep-06	1125	23-Sep-06	1145	24.33	2002-8-C	2002	8	C	6	.	.	.	.	1	.	.	.	.	.	.	.	7			
25-Oct-06		26-Oct-06	1500		2002-8-C	2002	8	C	4	.	.	.	.	.	.	1	.	.	.	.	.	5			NI
4-May-06	1801	5-May-06	858	14.95	2002-9-A	2002	9	A	3	1	.	.	.	.	.	.	.	.	.	.	.	4			
7-Jun-06	1400	8-Jun-06	1455	24.92	2002-9-A	2002	9	A	43	.	.	.	.	.	.	.	.	.	.	.	.	43			
26-Jun-06	1425	27-Jun-06	1155	21.50	2002-9-A	2002	9	A	1	.	.	.	.	.	.	.	.	.	.	2	.	3			
10-Jul-06	856	11-Jul-06	1030	25.57	2002-9-A	2002	9	A	85	.	.	.	.	.	.	.	.	.	.	3	.	88			
21-Jul-06	1635	22-Jul-06	734	14.98	2002-9-A	2002	9	A	9	.	.	.	.	.	.	.	.	.	.	.	.	9			
7-Aug-06	1542	8-Aug-06	1343	22.02	2002-9-A	2002	9	A	65	.	.	.	.	.	.	.	.	.	.	1	.	66			
21-Aug-06	1335	22-Aug-06	1105	21.50	2002-9-A	2002	9	A	36	.	.	.	.	.	4	.	.	.	.	1	.	41			
4-Sep-06	1430	5-Sep-06	1240	22.17	2002-9-A	2002	9	A	20	.	.	.	.	.	.	.	.	.	.	.	.	20			
22-Sep-06	1100	23-Sep-06	1210	25.17	2002-9-A	2002	9	A	8	.	.	.	.	.	.	.	.	.	.	1	.	9			1 adult coho observed
4-May-06	1725	5-May-06	914	15.82	2002-9-B	2002	9	B	.	.	.	.	.	.	.	.	.	.	.	.	.	0			good overwintering habitat - deep pool
7-Jun-06	1410	8-Jun-06	1520	25.17	2002-9-B	2002	9	B	27	.	.	.	.	.	.	.	.	.	.	.	.	27			
26-Jun-06	1435	27-Jun-06	1200	21.42	2002-9-B	2002	9	B	11	.	.	.	.	.	.	.	.	.	.	.	.	11			
10-Jul-06	902	11-Jul-06	1055	25.88	2002-9-B	2002	9	B	77	.	.	.	.	.	.	.	.	.	.	0	.	77			
21-Jul-06	1645	22-Jul-06	739	14.90	2002-9-B	2002	9	B	62	.	.	.	.	.	.	.	.	.	.	.	.	62			
7-Aug-06	1535	8-Aug-06	1313	21.63	2002-9-B	2002	9	B	18	.	.	.	.	.	.	.	.	.	.	1	.	19			
21-Aug-06	1345	22-Aug-06	1045	21.00	2002-9-B	2002	9	B	51	.	.	.	.	1	.	.	2	.	.	.	.	54		2	trap moved from set due to high water, 1 day late NI
4-Sep-06	1435	5-Sep-06	1232	21.95	2002-9-B	2002	9	B	6	.	.	.	.	.	1	.	1	.	.	.	.	8			
22-Sep-06	1055	23-Sep-06	1215	25.33	2002-9-B	2002	9	B	6	.	.	.	.	.	.	.	.	.	.	.	.	6			
4-May-06	1739	5-May-06	922	15.72	2002-9-C	2002	9	C	.	.	.	.	.	.	.	.	.	.	.	.	.	0			
7-Jun-06	1415	8-Jun-06	1535	25.33	2002-9-C	2002	9	C	14	.	.	.	.	.	.	.	.	.	.	3	.	17			
26-Jun-06	1440	27-Jun-06	1205	21.42	2002-9-C	2002	9	C	102	.	.	.	.	.	2	.	.	.	.	.	.	104			
10-Jul-06	905	11-Jul-06	1106	26.02	2002-9-C	2002	9	C	99	.	.	.	.	.	.	.	.	.	.	3	.	102			
21-Jul-06	1645	22-Jul-06	748	15.05	2002-9-C	2002	9	C	54	.	.	.	.	.	.	.	.	.	.	.	.	54			
7-Aug-06	1537	8-Aug-06	1320	21.72	2002-9-C	2002	9	C	141	.	.	.	.	.	1	.	.	.	.	1	.	143			
21-Aug-06	1340	22-Aug-06	1055	21.25	2002-9-C	2002	9	C	28	.	.	.	.	1	.	.	.	.	.	1	.	30			
4-Sep-06	1440	5-Sep-06	1235	21.92	2002-9-C	2002	9	C	39	.	.	.	.	.	.	.	.	.	.	3	.	42			
22-Sep-06	1050	23-Sep-06	1220	25.50	2002-9-C	2002	9	C	.	.	.	.	.	.	.	.	.	.	.	.	.	0			
11-Jun-06	755	12-Jun-06	1340	29.75	2003-10-A	2003	10	A	21	.	.	.	.	.	.	.	.	.	.	.	.	21			
28-Jun-06	1220	29-Jun-06	1235	24.25	2003-10-A	2003	10	A	24	.	.	.	.	.	2	.	.	.	.	.	.	26			
12-Jul-06	1255	13-Jul-06	1437	25.70	2003-10-A	2003	10	A	15	1	.	.	.	.	1	.	.	.	.	.	.	17			
26-Jul-06	1250	27-Jul-06	1345	24.92	2003-10-A	2003	10	A	24	.	.	.	.	.	2	.	.	.	.	.	.	26			
9-Aug-06	1050	10-Aug-06	1219	25.48	2003-10-A	2003	10	A	24	.	.	.	.	.	.	.	.	.	.	1	.	25			
23-Aug-06	1615	24-Aug-06	1055	18.67	2003-10-A	2003	10	A	79	.	.	.	.	.	2	.	.	.	.	.	.	81			
6-Sep-06	12:13	7-Sep-06	1255	24.70	2003-10-A	2003	10	A	61	.	.	.	.	.	21	.	.	.	.	2	.	84			
23-Sep-06	1725	24-Sep-06	942	16.28	2003-10-A	2003	10	A	3	.	.	.	.	.	.	.	.	.	.	.	.	3			
24-Oct-06	1230	25-Oct-06	1017	21.78	2003-10-A	2003	10	A	34	.	.	.	.	.	.	.	.	.	.	1	.	35			
11-Jun-06	745	12-Jun-06	1310	29.42	2003-10-B	2003	10	B	34	.	.	.	.	.	.	.	.	.	.	.	.	34			

Notes:
NI - Not Included in Analyses or Site Characterization

2006 Stream Fish Collection Data

SET DATE SET TIME	RAW SET TIME	CHECK DATE CHECK TIME	RAW CHECK TIME	NUMBER OF HOURS	SITE ID	CREEK	REACH	TRAP	COHO	CHINOOK	PINK	CHUM	SOCKEYE	LAMPREY	DOLLY	RAINBOW	3 SPINE SB	9 SPINE SB	5 SPINE SB	SCULPIN	UNKNOWN	TOTAL CAUGHT	COLLECTED	SPECIFIC COMMENTS	COMMENTS
28-Jun-06	1218	29-Jun-06	1216	23.97	2003-10-B	2003	10	B	66	.	.	.	.	.	2	.	.	.	.	.	.	68			
12-Jul-06	1249	13-Jul-06	846	19.95	2003-10-B	2003	10	B	59	.	.	.	.	.	1	.	.	.	.	1	.	61			
26-Jul-06	1245	27-Jul-06	1310	24.42	2003-10-B	2003	10	B	37	.	.	.	.	.	3	.	.	.	.	1	.	41			
9-Aug-06	1045	10-Aug-06	1200	25.25	2003-10-B	2003	10	B	43	.	.	.	.	.	3	.	.	.	.	.	3	49			
23-Aug-06	1615	24-Aug-06	1050	18.58	2003-10-B	2003	10	B	46	.	.	.	.	.	1	.	.	.	.	1	.	48			
6-Sep-06	12:06	7-Sep-06	1304	24.97	2003-10-B	2003	10	B	35	.	.	.	.	.	.	.	.	.	.	.	.	35			
23-Sep-06	1720	24-Sep-06	937	16.28	2003-10-B	2003	10	B	3	.	.	.	.	.	.	.	.	.	.	.	.	3			
24-Oct-06	1225	25-Oct-06	1020	21.92	2003-10-B	2003	10	B	.	.	.	.	.	.	.	.	.	.	.	.	.	0			
11-Jun-06	750	12-Jun-06	1320	29.50	2003-10-C	2003	10	C	29	.	.	.	.	.	1	.	.	.	.	.	.	30			
28-Jun-06	1210	29-Jun-06	1212	24.03	2003-10-C	2003	10	C	3	.	.	.	.	.	2	.	.	.	.	.	.	5			
12-Jul-06	1245	13-Jul-06	854	20.15	2003-10-C	2003	10	C	58	.	.	.	.	.	.	.	.	.	.	.	.	58			
26-Jul-06	1245	27-Jul-06	1305	24.33	2003-10-C	2003	10	C	38	.	.	.	.	.	.	.	.	.	.	.	.	38			
9-Aug-06	1042	10-Aug-06	1147	25.08	2003-10-C	2003	10	C	30	.	.	.	.	.	.	.	.	.	.	.	.	30			
23-Aug-06	1610	24-Aug-06	1045	18.58	2003-10-C	2003	10	C	25	.	.	.	.	.	1	.	.	.	.	.	.	26			
6-Sep-06	12:03	7-Sep-06	1251	24.80	2003-10-C	2003	10	C	18	.	.	.	.	.	.	.	.	.	.	.	.	18			
23-Sep-06	1716	24-Sep-06	935	16.32	2003-10-C	2003	10	C	17	.	.	.	.	.	.	.	.	.	.	.	.	17			
24-Oct-06	1235	25-Oct-06	1010	21.58	2003-10-C	2003	10	C	26	.	.	.	.	.	.	.	.	.	.	1	.	27			
11-Jun-06	820	12-Jun-06	1200	27.67	2003-11-A	2003	11	A	8	.	.	.	.	.	1	.	.	.	.	.	.	9			
28-Jun-06	1205	29-Jun-06	1110	23.08	2003-11-A	2003	11	A	1	.	.	.	.	.	3	.	.	.	.	.	.	4			
12-Jul-06	1155	13-Jul-06	1448	26.88	2003-11-A	2003	11	A	2	.	.	.	.	.	.	.	.	.	.	.	.	2			
26-Jul-06	1230	27-Jul-06	1240	24.17	2003-11-A	2003	11	A	1	.	.	.	.	.	.	.	.	.	.	.	.	1			
9-Aug-06	1056	10-Aug-06	1133	24.62	2003-11-A	2003	11	A	1	.	.	.	.	.	.	.	.	.	.	.	.	1			
23-Aug-06	1710	24-Aug-06	1227	19.28	2003-11-A	2003	11	A	27	1	.	.	.	.	.	.	.	.	.	.	.	28			
6-Sep-06	12:49	7-Sep-06	1211	23.37	2003-11-A	2003	11	A	.	.	.	.	.	.	.	.	.	.	.	.	.	0			
23-Sep-06	1445	24-Sep-06	1023	19.63	2003-11-A	2003	11	A	31	.	.	.	.	.	1	.	.	.	.	.	.	32			
25-Oct-06	1200	26-Oct-06	955	21.92	2003-11-A	2003	11	A	8	.	.	.	.	.	.	.	.	.	.	.	.	8			
11-Jun-06	815	12-Jun-06	1140	27.42	2003-11-B	2003	11	B	12	.	.	.	.	.	.	.	.	.	.	.	.	12			
28-Jun-06	1205	29-Jun-06	1105	23.00	2003-11-B	2003	11	B	1	.	.	.	.	.	1	.	.	.	.	.	.	2			
12-Jul-06	1150	13-Jul-06	1446	26.93	2003-11-B	2003	11	B	1	.	.	.	.	.	.	.	.	.	.	.	.	1			
26-Jul-06	1225	27-Jul-06	1245	24.33	2003-11-B	2003	11	B	1	.	.	.	.	.	2	.	.	.	.	.	.	3			
9-Aug-06	1053	10-Aug-06	1129	24.60	2003-11-B	2003	11	B	.	.	.	.	.	.	3	.	.	.	.	.	.	3			
23-Aug-06	1707	24-Aug-06	1218	19.18	2003-11-B	2003	11	B	19	3	.	.	.	.	4	.	.	.	.	.	.	26			
6-Sep-06	12:44	7-Sep-06	1215	23.52	2003-11-B	2003	11	B	1	.	.	.	.	.	.	.	.	.	.	.	.	1			
23-Sep-06	1440	24-Sep-06	1027	19.78	2003-11-B	2003	11	B	15	.	.	.	.	.	1	.	.	.	.	.	.	16			
25-Oct-06	1205	26-Oct-06	950	21.75	2003-11-B	2003	11	B	10	.	.	.	.	.	.	.	.	.	.	.	.	10			
11-Jun-06	810	12-Jun-06	1150	27.67	2003-11-C	2003	11	C	15	.	.	.	.	.	4	.	.	.	.	.	.	19			
28-Jun-06	1210	29-Jun-06	1100	22.83	2003-11-C	2003	11	C	3	.	.	.	.	.	3	.	.	.	.	.	.	6			
12-Jul-06	1145	13-Jul-06	1444	26.98	2003-11-C	2003	11	C	.	.	.	.	.	.	.	.	.	.	.	.	.	0			
26-Jul-06	1220	27-Jul-06	1235	24.25	2003-11-C	2003	11	C	.	.	.	.	.	.	.	.	.	.	.	.	.	0			
9-Aug-06	1050	10-Aug-06	1125	24.58	2003-11-C	2003	11	C	.	.	.	.	.	.	.	.	.	.	.	.	.	0	1 leech		
23-Aug-06	1702	24-Aug-06	1210	19.13	2003-11-C	2003	11	C	14	.	.	.	.	.	.	.	.	.	.	.	.	14			
6-Sep-06	12:42	7-Sep-06	1205	23.38	2003-11-C	2003	11	C	3	.	.	.	.	.	.	.	.	.	.	.	.	3			
23-Sep-06	1435	24-Sep-06	1031	19.93	2003-11-C	2003	11	C	20	.	.	.	.	.	2	.	.	.	.	.	.	22			
25-Oct-06	1200	26-Oct-06	945	21.75	2003-11-C	2003	11	C	5	.	.	.	.	.	2	.	.	.	.	.	.	7			
7-Jun-06	1640	8-Jun-06	1740	25.00	2003-12-A	2003	12	A	.	.	.	.	.	.	.	.	.	.	.	.	.	0			
28-Jun-06	1250	29-Jun-06	1140	22.83	2003-12-A	2003	12	A	20	.	.	.	.	.	2	.	.	.	.	1	.	23			
12-Jul-06	1225	13-Jul-06	1536	27.18	2003-12-A	2003	12	A	21	.	.	.	.	.	.	.	.	.	.	.	.	21			
26-Jul-06	1255	27-Jul-06	1305	24.17	2003-12-A	2003	12	A	19	.	.	.	.	.	.	.	.	.	.	.	.	19			
9-Aug-06	1118	10-Aug-06	1255	25.62	2003-12-A	2003	12	A	25	.	.	.	.	.	.	.	.	.	.	1	.	26			
23-Aug-06	1655	24-Aug-06	1120	18.42	2003-12-A	2003	12	A	11	.	.	.	.	.	2	.	.	.	.	.	.	13			
6-Sep-06	12:30	7-Sep-06	1236	24.10	2003-12-A	2003	12	A	12	.	.	.	.	.	1	.	.	.	.	.	.	13			
23-Sep-06	1515	24-Sep-06	905	17.83	2003-12-A	2003	12	A	32	.	.	.	.	.	1	.	.	.	.	.	.	33			
25-Oct-06	1210	26-Oct-06	1000	21.83	2003-12-A	2003	12	A	4	.	.	.	.	.	.	.	.	.	.	.	.	4			
7-Jun-06	1645	8-Jun-06	1750	25.08	2003-12-B	2003	12	B	.	.	.	.	.	.	.	.	.	.	.	.	.	0			
28-Jun-06	1245	29-Jun-06	1130	22.75	2003-12-B	2003	12	B	26	.	.	.	.	.	1	.	.	.	.	.	.	27			
12-Jul-06	1220	13-Jul-06	1521	27.02	2003-12-B	2003	12	B	42	.	.	.	.	.	2	.	.	.	.	.	.	44			
26-Jul-06	1250	27-Jul-06	1300	24.17	2003-12-B	2003	12	B	12	.	.	.	.	.	.	.	.	.	.	.	.	12			
9-Aug-06	1113	10-Aug-06	1310	25.95	2003-12-B	2003	12	B	24	.	.	.	.	.	1	.	.	.	.	1	.	26			
23-Aug-06	1700	24-Aug-06	1115	18.25	2003-12-B	2003	12	B	31	.	.	.	.	.	1	.	.	.	.	.	.	32			
6-Sep-06	12:28	7-Sep-06	1238	24.17	2003-12-B	2003	12	B	15	.	.	.	.	.	.	.	.	.	.	.	.	15			
23-Sep-06	1520	24-Sep-06	900	17.67	2003-12-B	2003	12	B	12	.	.	.	.	.	2	.	.	.	.	.	.	14			
25-Oct-06	1205	26-Oct-06	1010	22.08	2003-12-B	2003	12	B	4	.	.	.	.	.	.	.	.	.	.	.	.	4			
7-Jun-06	1650	8-Jun-06	1800	25.17	2003-12-C	2003	12	C	.	.	.	.	.	.	.	.	.	.	.	.	.	0			
28-Jun-06	1241	29-Jun-06	1125	22.73	2003-12-C	2003	12	C	25	.	.	.	.	.	2	.	.	.	.	.	.	27			
12-Jul-06	1215	13-Jul-06	1507	26.87	2003-12-C	2003	12	C	30	.	.	.	.	.	1	.	.	.	.	2	.	33			
26-Jul-06	1245	27-Jul-06	1250	24.08	2003-12-C	2003	12	C	13	.	.	.	.	.	2	.	.	.	.	1	.	16			
9-Aug-06	1110	10-Aug-06	1242	25.53	2003-12-C	2003	12	C	48	.	.	.	.	.	.	.	.	.	.	.	.	48			
23-Aug-06	1705	24-Aug-06	1130	18.42	2003-12-C	2003	12	C	26	.	.	.	.	.	2	.	.	.	.	.	.	28			
6-Sep-06	12:23	7-Sep-06	1232	24.15	2003-12-C	2003	12	C	17	.	.	.	.	.	.	.	.	.	.	1	.	18			
23-Sep-06	1525	24-Sep-06	858	17.55	2003-12-C	2003	12	C	8	.	.	.	.	.	.	.	.	.	.	1	.	9			

Notes:
NI - Not Included in Analyses or Site Characterization

2006 Stream Fish Collection Data

SET DATE SET TIME	RAW SET TIME	CHECK DATE CHECK TIME	RAW CHECK TIME	NUMBER OF HOURS	SITE ID	CREEK	REACH	TRAP	COHO	CHINOOK	PINK	CHUM	SOCKEYE	LAMPREY	DOLLY	RAINBOW	3 SPINE SB	9 SPINE SB	5 SPINE SB	SCULPIN	UNKNOWN	TOTAL CAUGHT	COLLECTED	SPECIFIC COMMENTS	COMMENTS
25-Oct-06	1200	26-Oct-06	1015	22.25	2003-12-C	2003	12	C	10	.	.	.	.	.	.	.	.	.	.	.	.	10			
11-Jun-06	850	12-Jun-06	1120	26.50	2003-13-A	2003	13	A	9	.	.	.	.	.	.	.	.	.	.	.	.	9			deeply incised creek with grassy riparian vegetation
28-Jun-06	135	29-Jun-06	1225	22.58	2003-13-A	2003	13	A	.	.	.	.	.	.	.	.	.	.	.	.	.	0	1 beetle		
12-Jul-06	1310	13-Jul-06	1500	25.83	2003-13-A	2003	13	A	2	.	.	.	.	.	.	.	.	.	.	.	.	2			
11-Jun-06	900	12-Jun-06	1125	26.42	2003-13-B	2003	13	B	16	.	.	.	.	.	2	.	.	.	.	.	.	18			
28-Jun-06	1330	29-Jun-06	1230	23.00	2003-13-B	2003	13	B	.	.	.	.	.	.	.	.	.	.	.	.	.	0			
12-Jul-06	1305	13-Jul-06	1459	25.90	2003-13-B	2003	13	B	3	.	.	.	.	.	.	.	.	.	.	.	.	3			
11-Jun-06	905	12-Jun-06	1130	26.42	2003-13-C	2003	13	C	26	.	.	.	.	.	3	.	.	.	.	.	.	29			
28-Jun-06	1330	29-Jun-06	1230	23.00	2003-13-C	2003	13	C	.	.	.	.	.	.	.	.	.	.	.	.	.	0	1 nymph		
12-Jul-06	1255	13-Jul-06	1457	26.03	2003-13-C	2003	13	C	1	.	.	.	.	.	.	.	.	.	.	.	.	1			
26-Jul-06	1315	27-Jul-06	1405	24.83	2003-14-A	2003	14	A	7	.	.	.	.	.	.	.	.	.	.	.	.	7			
9-Aug-06	1141	10-Aug-06	1157	24.27	2003-14-A	2003	14	A	9	.	.	.	.	.	.	.	.	.	.	1	.	10			
23-Aug-06	1635	24-Aug-06	1210	19.58	2003-14-A	2003	14	A	19	.	.	.	.	.	6	.	.	.	.	.	.	25			
6-Sep-06	12:50	7-Sep-06	1328	24.63	2003-14-A	2003	14	A	26	.	.	.	.	.	1	.	.	.	.	.	.	27			
24-Sep-06	1045	25-Sep-06	1205	25.33	2003-14-A	2003	14	A	7	.	.	.	.	.	.	.	.	.	.	.	.	7			
25-Oct-06	1050	26-Oct-06	935	22.75	2003-14-A	2003	14	A	37	.	.	.	.	.	.	.	.	.	.	.	.	37			
26-Jul-06	1325	27-Jul-06	1410	24.75	2003-14-B	2003	14	B	3	.	.	.	.	.	.	.	.	.	.	1	.	4			
9-Aug-06	1144	10-Aug-06	1151	24.12	2003-14-B	2003	14	B	9	.	.	.	.	.	.	.	.	.	.	1	.	10			
23-Aug-06	1630	24-Aug-06	1205	19.58	2003-14-B	2003	14	B	15	.	.	.	.	.	.	.	.	.	.	1	.	16			
6-Sep-06	12:46	7-Sep-06	1326	24.67	2003-14-B	2003	14	B	.	.	.	.	.	.	.	.	.	.	.	.	.	0			
24-Sep-06	1040	25-Sep-06	1200	25.33	2003-14-B	2003	14	B	5	.	.	.	.	.	.	.	.	.	.	1	.	6			
25-Oct-06	1100	26-Oct-06	945	22.75	2003-14-B	2003	14	B	.	.	.	.	.	.	.	.	.	.	.	.	.	0			
26-Jul-06	1330	27-Jul-06	1400	24.50	2003-14-C	2003	14	C	6	.	.	.	.	.	.	.	.	.	.	2	.	8			
9-Aug-06	1148	10-Aug-06	1205	24.28	2003-14-C	2003	14	C	15	.	.	.	.	.	.	.	.	.	.	4	.	19			
23-Aug-06	1640	24-Aug-06	1200	19.33	2003-14-C	2003	14	C	20	.	.	.	.	.	1	.	.	.	.	1	.	22			
6-Sep-06	12:54	7-Sep-06	1331	24.62	2003-14-C	2003	14	C	18	.	.	.	.	.	8	.	.	.	.	2	.	28			
24-Sep-06	1050	25-Sep-06	1210	25.33	2003-14-C	2003	14	C	41	.	.	.	.	.	.	.	.	.	.	.	.	41			
25-Oct-06	1055	26-Oct-06	950	22.92	2003-14-C	2003	14	C	3	.	.	.	.	.	1	.	.	.	.	.	.	4			
3-May-06	9:00	4-May-06	9:24	24.40	2003-1-A	2003	1	A	.	2	.	.	.	.	.	.	.	.	.	.	.	2			
9-Jun-06	845	10-Jun-06	905	24.33	2003-1-A	2003	1	A	4	.	.	.	.	.	5	.	.	.	.	.	.	9			trap set behind large rock
27-Jun-06	1610	28-Jun-06	1725	25.25	2003-1-A	2003	1	A	9	.	.	.	.	.	1	.	.	.	.	.	.	10			
12-Jul-06	905	13-Jul-06	645	21.67	2003-1-A	2003	1	A	7	.	.	.	.	.	3	2	.	.	.	1	.	13			
26-Jul-06	1015	27-Jul-06	935	23.33	2003-1-A	2003	1	A	4	.	.	.	.	.	.	.	.	.	.	.	.	4			trap had a hole
9-Aug-06	808	10-Aug-06	815	24.12	2003-1-A	2003	1	A	13	1	.	.	.	.	1	1	.	.	.	.	.	16			
21-Aug-06	1705	22-Aug-06	1425	21.33	2003-1-A	2003	1	A	3	.	.	.	.	.	9	.	.	.	.	.	.	12		2	trap pulled from set by high water NI
6-Sep-06	8:58	7-Sep-06	907	24.15	2003-1-A	2003	1	A	4	.	.	.	.	.	2	.	.	.	.	1	.	7			
23-Sep-06	1040	24-Sep-06	1740	31.00	2003-1-A	2003	1	A	6	.	.	.	.	.	1	.	.	.	.	.	.	7			
25-Oct-06	1555	26-Oct-06	1623	24.47	2003-1-A	2003	1	A	1	.	.	.	.	.	2	.	.	.	.	1	.	4			
3-May-06	9:28	4-May-06	9:44	24.27	2003-1-B	2003	1	B	.	2	.	.	.	.	.	.	.	.	.	.	.	2			
9-Jun-06	840	10-Jun-06	850	24.17	2003-1-B	2003	1	B	7	1	.	.	.	.	11	3	.	.	.	.	.	22			
27-Jun-06	1607	28-Jun-06	1727	25.33	2003-1-B	2003	1	B	11	.	.	.	.	.	.	.	.	.	.	.	.	11			
12-Jul-06	916	13-Jul-06	630	21.23	2003-1-B	2003	1	B	21	9	.	.	.	.	5	.	.	.	.	.	.	35			
26-Jul-06	1030	27-Jul-06	945	23.25	2003-1-B	2003	1	B	38	1	.	.	.	.	.	.	.	.	.	.	.	39			
9-Aug-06	810	10-Aug-06	823	24.22	2003-1-B	2003	1	B	60	1	.	.	.	.	5	.	.	.	.	.	.	66			
21-Aug-06	1655	22-Aug-06	1435	21.67	2003-1-B	2003	1	B	10	.	.	.	.	.	2	.	.	.	.	.	.	12		2	trap line twisted trap due to high currents NI
6-Sep-06	9:06	7-Sep-06	911	24.08	2003-1-B	2003	1	B	14	.	.	.	.	.	1	.	.	.	.	.	.	15			
23-Sep-06	1045	24-Sep-06	1745	31.00	2003-1-B	2003	1	B	.	.	.	.	.	.	.	.	.	.	.	.	.	0		1	bear NI
25-Oct-06	1600	26-Oct-06	1630	24.50	2003-1-B	2003	1	B	3	.	.	.	.	.	6	.	.	.	.	.	.	9			
3-May-06	9:50	4-May-06	10:04	24.23	2003-1-C	2003	1	C	.	.	.	.	.	.	.	.	.	.	.	1	.	1			
9-Jun-06	830	10-Jun-06	840	24.17	2003-1-C	2003	1	C	7	.	.	.	.	.	5	2	.	.	.	.	.	14			
27-Jun-06	1618	28-Jun-06	1730	25.20	2003-1-C	2003	1	C	2	.	.	.	.	.	4	2	.	.	.	.	.	8			
12-Jul-06	925	13-Jul-06	645	21.33	2003-1-C	2003	1	C	15	2	.	.	.	.	4	1	.	.	.	.	.	22			
26-Jul-06	1038	27-Jul-06	955	23.28	2003-1-C	2003	1	C	3	.	.	.	.	.	.	.	.	.	.	.	.	3			
9-Aug-06	814	10-Aug-06	839	24.42	2003-1-C	2003	1	C	18	.	.	.	.	.	.	1	.	.	.	.	1	20		1	trap pulled from water, fish dead NI
21-Aug-06	1700	22-Aug-06	1445	21.75	2003-1-C	2003	1	C	10	.	.	.	.	.	9	.	.	.	.	.	.	19		2	log rolled onto trap, opening the side, high water, 1 day late NI
6-Sep-06	9:11	7-Sep-06	917	24.10	2003-1-C	2003	1	C	19	.	.	.	.	.	1	1	.	.	.	.	.	21			
23-Sep-06	1050	24-Sep-06	1745	30.92	2003-1-C	2003	1	C	3	.	.	.	.	.	1	1	.	.	.	.	.	5			
25-Oct-06	1605	26-Oct-06	1640	24.58	2003-1-C	2003	1	C	.	1	.	.	.	.	.	.	.	.	.	.	.	1			
3-May-06	9:46	4-May-06	11:40	25.90	2003-2-A	2003	2	A	.	.	.	.	.	.	.	.	.	.	.	.	.	0			

Notes:
NI - Not Included in Analyses or Site Characterization

2006 Stream Fish Collection Data

SET DATE SET TIME	RAW SET TIME	CHECK DATE CHECK TIME	RAW CHECK TIME	NUMBER OF HOURS	SITE ID	CREEK	REACH	TRAP	COHO	CHINOOK	PINK	CHUM	SOCKEYE	LAMPREY	DOLLY	RAINBOW	3 SPINE SB	9 SPINE SB	5 SPINE SB	SCULPIN	UNKNOWN	TOTAL CAUGHT	COLLECTED	SPECIFIC COMMENTS	COMMENTS
9-Jun-06	920	10-Jun-06	1015	24.92	2003-2-A	2003	2	A	19	.	.	.	.	.	5	.	.	.	.	.	.	24			
28-Jun-06	825	29-Jun-06	910	24.75	2003-2-A	2003	2	A	21	.	.	.	.	1	8	.	.	.	.	.	.	30			
12-Jul-06	955	13-Jul-06	700	21.08	2003-2-A	2003	2	A	31	.	.	.	.	.	21	.	.	.	.	.	.	52			dropped 2 fish without sampling
26-Jul-06	929	27-Jul-06	845	23.27	2003-2-A	2003	2	A	25	.	.	.	.	.	10	.	.	.	.	.	.	35	6 coho dead - too much MS-222, no lenghts listed		6 coho dead due to overexposure to MS-222
9-Aug-06	849	10-Aug-06	925	24.60	2003-2-A	2003	2	A	30	.	.	.	.	.	.	.	.	.	.	.	.	30			
23-Aug-06	1515	24-Aug-06	845	17.50	2003-2-A	2003	2	A	13	.	.	.	.	.	4	.	.	.	.	.	.	17			
6-Sep-06	9:40	7-Sep-06	934	23.90	2003-2-A	2003	2	A	44	.	.	.	.	.	6	1	.	.	.	.	.	51			
23-Sep-06	1125	24-Sep-06	1710	29.75	2003-2-A	2003	2	A	13	.	.	.	.	.	9	.	.	.	.	.	.	22			
25-Oct-06	1420	26-Oct-06	1350	23.50	2003-2-A	2003	2	A	2	.	.	.	.	1	.	.	.	.	.	.	.	3			
3-May-06	9:37	4-May-06	11:35	25.97	2003-2-B	2003	2	B	.	.	.	.	.	.	.	.	.	.	.	.	.	0			
9-Jun-06	910	10-Jun-06	1020	25.17	2003-2-B	2003	2	B	19	.	.	.	.	.	5	.	.	.	.	1	.	25			
28-Jun-06	818	29-Jun-06	904	24.77	2003-2-B	2003	2	B	4	.	.	.	.	.	1	.	.	.	.	1	.	6			
12-Jul-06	950	13-Jul-06	653	21.05	2003-2-B	2003	2	B	52	1	.	.	.	.	8	.	.	.	.	.	.	61			
26-Jul-06	942	27-Jul-06	809	22.45	2003-2-B	2003	2	B	.	.	.	.	.	.	.	.	.	.	.	.	.	0		1	bear NI
9-Aug-06	847	10-Aug-06	914	24.45	2003-2-B	2003	2	B	34	.	.	.	.	.	2	.	.	.	.	.	.	36		1	trap was smashed, intact, live fish NI
23-Aug-06	1505	24-Aug-06	835	17.50	2003-2-B	2003	2	B	56	.	.	.	.	.	2	.	.	.	.	.	.	58			
6-Sep-06	9:34	7-Sep-06	942	24.13	2003-2-B	2003	2	B	15	.	.	.	.	1	2	.	.	.	.	1	.	19			
23-Sep-06	1130	24-Sep-06	1705	29.58	2003-2-B	2003	2	B	2	.	.	.	.	2	1	.	.	.	.	.	.	5			
25-Oct-06	1415	26-Oct-06	1330	23.25	2003-2-B	2003	2	B	5	.	.	.	.	.	.	.	.	.	.	.	.	5			
3-May-06	9:25	4-May-06	11:20	25.92	2003-2-C	2003	2	C	.	.	.	.	.	.	.	.	.	.	.	.	.	0			
9-Jun-06	915	10-Jun-06	1025	25.17	2003-2-C	2003	2	C	13	.	.	.	.	1	7	.	.	.	.	.	.	21			
28-Jun-06	810	29-Jun-06	854	24.73	2003-2-C	2003	2	C	23	.	.	.	.	1	.	.	.	.	.	.	.	24			
12-Jul-06	950	13-Jul-06	710	21.50	2003-2-C	2003	2	C	27	.	.	.	.	.	3	.	.	.	.	.	.	30			
26-Jul-06	946	27-Jul-06	830	22.73	2003-2-C	2003	2	C	34	.	.	.	.	.	7	.	.	.	.	.	.	41			
9-Aug-06	843	10-Aug-06	900	24.28	2003-2-C	2003	2	C	54	.	.	.	.	.	.	.	.	.	.	1	.	55			
23-Aug-06	1510	24-Aug-06	830	17.33	2003-2-C	2003	2	C	15	.	.	.	.	1	.	.	.	.	.	.	.	16			
6-Sep-06	9:31	7-Sep-06	948	24.28	2003-2-C	2003	2	C	5	.	.	.	.	.	14	.	.	.	.	.	.	19			
23-Sep-06	1135	24-Sep-06	1700	29.42	2003-2-C	2003	2	C	17	.	.	.	.	.	.	.	.	.	.	.	.	17			
25-Oct-06	1430	26-Oct-06	1340	23.17	2003-2-C	2003	2	C	2	.	.	.	.	.	2	.	.	.	.	.	.	4		2	trap out of water (unknown reason) but still partially fishing NI
3-May-06	11:00	4-May-06	12:10	25.17	2003-3-A	2003	3	A	.	1	.	.	.	.	.	.	.	.	.	.	.	1			
9-Jun-06	1000	10-Jun-06			2003-3-A	2003	3	A	.	.	.	.	.	.	.	.	.	.	.	.	.	0	Beetles, baby dragon fly		pool area upstream from beaver dam, indication of recent inundation, sampled in wrong location (in tributary to the west of intended location) NI
28-Jun-06	1010	29-Jun-06	1000	23.83	2003-3-A	2003	3	A	1	.	.	.	.	.	.	.	.	.	.	2	.	3			
12-Jul-06	954	13-Jul-06	706	21.20	2003-3-A	2003	3	A	1	.	.	.	.	.	.	.	.	.	.	6	.	7			
26-Jul-06	1038	27-Jul-06	955	23.28	2003-3-A	2003	3	A	.	.	.	.	.	.	.	.	.	.	.	2	.	2			
9-Aug-06	908	10-Aug-06	931	24.38	2003-3-A	2003	3	A	.	.	.	.	.	.	.	.	.	.	.	1	.	1			
23-Aug-06	1450	24-Aug-06	946	18.93	2003-3-A	2003	3	A	17	.	.	.	.	.	1	.	.	.	.	.	.	18			
6-Sep-06	10:05	7-Sep-06	1110	25.08	2003-3-A	2003	3	A	11	.	.	.	.	.	.	.	.	.	.	2	.	13			
23-Sep-06	840	24-Sep-06	1535	30.92	2003-3-A	2003	3	A	24	.	.	.	.	.	.	.	.	.	.	.	.	24			
25-Oct-06	1415	26-Oct-06	1300	22.75	2003-3-A	2003	3	A	17	.	.	.	.	.	.	.	.	.	.	.	.	17			
3-May-06	10:48	4-May-06	12:02	25.23	2003-3-B	2003	3	B	.	6	.	.	.	.	.	.	.	.	.	.	.	6			
9-Jun-06	955	10-Jun-06			2003-3-B	2003	3	B	.	.	.	.	.	.	.	.	.	.	.	.	.	0			Sampled in wrong location (in tributary to the west of intended location) NI
28-Jun-06	1000	29-Jun-06	955	23.92	2003-3-B	2003	3	B	4	.	.	.	.	.	.	.	.	.	.	1	.	5			
12-Jul-06	949	13-Jul-06	706	21.28	2003-3-B	2003	3	B	.	.	.	.	.	.	.	.	.	.	.	4	.	4			
26-Jul-06	1030	27-Jul-06	950	23.33	2003-3-B	2003	3	B	.	.	.	.	.	.	.	.	.	.	.	1	.	1			
9-Aug-06	900	10-Aug-06	929	24.48	2003-3-B	2003	3	B	.	.	.	.	.	.	.	.	.	.	.	1	.	1			
23-Aug-06	1443	24-Aug-06	939	18.93	2003-3-B	2003	3	B	7	1	.	.	.	.	.	.	.	.	.	1	.	9			
6-Sep-06	10:01	7-Sep-06	1106	25.08	2003-3-B	2003	3	B	3	.	.	.	.	.	.	.	.	.	.	.	.	3			
23-Sep-06	845	24-Sep-06	1540	30.92	2003-3-B	2003	3	B	3	.	.	.	.	.	.	.	.	.	.	.	.	3			
25-Oct-06	1410	26-Oct-06	1255	22.75	2003-3-B	2003	3	B	4	.	.	.	.	.	.	.	.	.	.	.	.	4			
3-May-06	11:15	4-May-06	11:50	24.58	2003-3-C	2003	3	C	.	1	.	.	.	.	.	.	.	.	.	.	.	1			

Notes:
NI - Not Included in Analyses or Site Characterization

2006 Stream Fish Collection Data

SET DATE SET TIME	RAW SET TIME	CHECK DATE CHECK TIME	RAW CHECK TIME	NUMBER OF HOURS	SITE ID	CREEK	REACH	TRAP	COHO	CHINOOK	PINK	CHUM	SOCKEYE	LAMPREY	DOLLY	RAINBOW	3 SPINE SB	9 SPINE SB	5 SPINE SB	SCULPIN	UNKNOWN	TOTAL CAUGHT	COLLECTED	SPECIFIC COMMENTS	COMMENTS
9-Jun-06	950	10-Jun-06			2003-3-C	2003	3	C	.	.	.	.	.	.	.	.	.	.	.	.	.	0			sampled in wrong location (in tributary to the west of intended location) NI
28-Jun-06	950	29-Jun-06	950	24.00	2003-3-C	2003	3	C	.	.	.	.	.	.	.	.	.	.	.	5	.	5			
12-Jul-06	1005	13-Jul-06	705	21.00	2003-3-C	2003	3	C	.	.	.	.	.	.	.	.	.	.	.	4	.	4			
26-Jul-06	1015	27-Jul-06	945	23.50	2003-3-C	2003	3	C	.	.	.	.	.	.	.	.	.	.	.	1	.	1			
9-Aug-06	912	10-Aug-06	925	24.22	2003-3-C	2003	3	C	.	.	.	.	.	.	.	.	.	.	.	7	.	7			
23-Aug-06	1438	24-Aug-06	930	18.87	2003-3-C	2003	3	C	14	2	.	.	.	.	.	.	.	.	.	1	.	17			
6-Sep-06	9:56	7-Sep-06	1101	25.08	2003-3-C	2003	3	C	4	.	.	.	.	.	.	.	.	.	.	3	.	7			
23-Sep-06	850	24-Sep-06	1545	30.92	2003-3-C	2003	3	C	25	.	.	.	.	.	.	.	.	.	.	1	.	26			
25-Oct-06	1405	26-Oct-06	1250	22.75	2003-3-C	2003	3	C	1	.	.	.	.	.	.	.	.	.	.	1	.	2			
3-May-06	11:13	4-May-06	10:00	22.78	2003-4-A	2003	4	A	1	5	.	.	.	.	.	.	.	.	.	.	.	6			
9-Jun-06	1020	10-Jun-06	1110	24.83	2003-4-A	2003	4	A	31	.	.	.	.	.	10	.	.	.	.	2	.	43			
28-Jun-06	915	29-Jun-06	952	24.62	2003-4-A	2003	4	A	12	.	.	.	.	.	.	.	.	.	.	.	.	12			
12-Jul-06	1030	13-Jul-06	735	21.08	2003-4-A	2003	4	A	76	1	.	.	.	.	5	.	.	.	.	.	.	82			
26-Jul-06	1113	27-Jul-06	1106	23.88	2003-4-A	2003	4	A	14	.	.	.	.	1	1	.	.	.	.	2	.	18			
9-Aug-06	905	10-Aug-06	956	24.85	2003-4-A	2003	4	A	30	.	.	.	.	.	1	.	.	.	.	1	.	32			
23-Aug-06	1519	24-Aug-06	1027	19.13	2003-4-A	2003	4	A	30	1	.	.	.	.	2	.	.	.	.	.	.	33			
6-Sep-06	10:54	7-Sep-06	1109	24.25	2003-4-A	2003	4	A	44	.	.	.	.	.	14	.	.	.	.	2	.	60			
23-Sep-06	1150	24-Sep-06	1450	27.00	2003-4-A	2003	4	A	48	.	.	.	.	.	.	.	.	.	.	.	.	48			
25-Oct-06	1400	26-Oct-06	1135	21.58	2003-4-A	2003	4	A	16	.	.	.	.	.	2	.	.	.	.	.	.	18			
3-May-06	11:04	4-May-06	10:15	23.18	2003-4-B	2003	4	B	.	.	.	.	.	.	.	.	.	.	.	.	.	0			
9-Jun-06	1025	10-Jun-06	1130	25.08	2003-4-B	2003	4	B	3	.	.	.	.	.	2	.	.	.	.	.	.	5			
28-Jun-06	906	29-Jun-06	937	24.52	2003-4-B	2003	4	B	42	.	.	.	.	.	1	.	.	.	.	3	.	46			
12-Jul-06	1020	13-Jul-06	730	21.17	2003-4-B	2003	4	B	.	.	.	.	.	.	.	.	.	.	.	.	.	0		1	bear NI
26-Jul-06	1108	27-Jul-06	1058	23.83	2003-4-B	2003	4	B	28	.	.	.	.	.	2	.	.	.	.	1	.	31			
9-Aug-06	910	10-Aug-06	947	24.62	2003-4-B	2003	4	B	43	.	.	.	.	.	1	.	.	.	.	4	.	48			
23-Aug-06	1518	24-Aug-06	1016	18.97	2003-4-B	2003	4	B	22	1	.	.	.	.	.	.	.	.	.	.	.	23			
6-Sep-06	10:49	7-Sep-06	1115	24.43	2003-4-B	2003	4	B	30	.	.	.	.	.	15	.	.	.	.	2	.	47			
23-Sep-06	1155	24-Sep-06	1500	27.08	2003-4-B	2003	4	B	51	.	.	.	.	.	4	.	.	.	.	2	.	57			
25-Oct-06	1355	26-Oct-06	1155	22.00	2003-4-B	2003	4	B	19	.	.	.	.	.	2	.	.	.	.	.	.	21			
3-May-06	11:48	4-May-06	10:25	22.62	2003-4-C	2003	4	C	3	14	.	.	.	.	.	.	.	.	.	1	.	18			trap set beneath ice shelf.
9-Jun-06	1030	10-Jun-06	1140	25.17	2003-4-C	2003	4	C	1	.	.	.	.	.	2	.	.	.	.	.	.	3		1	bear NI
28-Jun-06	854	29-Jun-06	930	24.60	2003-4-C	2003	4	C	6	.	.	.	.	.	2	.	.	.	.	.	.	8			
12-Jul-06	1015	13-Jul-06	720	21.08	2003-4-C	2003	4	C	50	1	.	.	.	.	5	.	.	.	.	.	.	56			
26-Jul-06	1103	27-Jul-06	1050	23.78	2003-4-C	2003	4	C	17	.	.	.	.	.	2	.	.	.	.	.	.	19			
9-Aug-06	915	10-Aug-06	940	24.42	2003-4-C	2003	4	C	26	.	.	.	.	1	3	.	.	.	.	.	.	30			
23-Aug-06	1515	24-Aug-06	1007	18.87	2003-4-C	2003	4	C	23	.	.	.	.	.	3	.	.	.	.	.	.	26			
6-Sep-06	10:45	7-Sep-06	1100	24.25	2003-4-C	2003	4	C	29	.	.	.	.	.	8	.	.	.	.	.	.	37			
23-Sep-06	1200	24-Sep-06	1445	24.00	2003-4-C	2003	4	C	63	.	.	.	.	.	3	.	.	.	.	.	.	66			
25-Oct-06	1350	26-Oct-06	1140	21.83	2003-4-C	2003	4	C	18	.	.	.	.	.	.	.	.	.	.	.	.	18			
3-May-06	11:48	4-May-06	10:40	22.87	2003-5-A	2003	5	A	.	3	.	.	.	.	1	.	.	.	.	.	.	4			
9-Jun-06	930	10-Jun-06	1445	29.25	2003-5-A	2003	5	A	17	.	.	.	.	1	7	.	.	.	.	.	.	25			
28-Jun-06	1003	29-Jun-06	1104	25.02	2003-5-A	2003	5	A	45	.	.	.	.	1	5	.	.	.	.	1	.	52			
12-Jul-06	1031	13-Jul-06	721	20.83	2003-5-A	2003	5	A	.	.	.	.	.	.	.	.	.	.	.	.	.	0		1	bear NI
26-Jul-06	1120	27-Jul-06	1105	23.75	2003-5-A	2003	5	A	31	.	.	.	.	.	.	.	.	.	.	1	.	32			
9-Aug-06	940	10-Aug-06	1015	24.58	2003-5-A	2003	5	A	31	.	.	.	.	.	.	.	.	.	.	.	.	31			
23-Aug-06	1530	24-Aug-06	910	17.67	2003-5-A	2003	5	A	41	.	.	.	.	.	11	.	.	.	.	1	.	53			
6-Sep-06	10:55	7-Sep-06	1145	24.83	2003-5-A	2003	5	A	45	.	.	.	.	.	11	.	.	.	.	.	.	56			
23-Sep-06	1225	24-Sep-06	1322	24.95	2003-5-A	2003	5	A	77	.	.	.	.	.	5	.	.	.	.	.	.	82			
25-Oct-06	1300	26-Oct-06	1147	22.78	2003-5-A	2003	5	A	58	.	.	.	.	.	1	.	.	.	.	.	1	60			
3-May-06	12:10	4-May-06	10:06	21.93	2003-5-B	2003	5	B	.	8	.	.	.	.	.	.	.	.	.	.	.	8		2	trap iced in - May 4 NI
9-Jun-06	945	10-Jun-06	1500	29.25	2003-5-B	2003	5	B	16	.	.	.	.	.	16	.	.	.	.	.	.	32			
28-Jun-06	956	29-Jun-06	1052	24.93	2003-5-B	2003	5	B	38	.	.	.	.	.	.	.	.	.	.	.	.	38			
12-Jul-06	1025	13-Jul-06	719	21.07	2003-5-B	2003	5	B	..	.	.	.	.	.	.	.	.	.	.	.	.	0		1	bear NI
26-Jul-06	1115	27-Jul-06	1115	24.00	2003-5-B	2003	5	B	37	.	.	.	.	.	4	.	.	.	.	.	.	41			
9-Aug-06	933	10-Aug-06	958	24.42	2003-5-B	2003	5	B	53	.	.	.	.	.	.	.	.	.	.	.	.	53			
23-Aug-06	1520	24-Aug-06	905	17.75	2003-5-B	2003	5	B	13	.	.	.	.	.	.	.	.	.	.	1	.	14			
6-Sep-06	10:52	7-Sep-06	1140	24.80	2003-5-B	2003	5	B	35	.	.	.	.	.	7	.	.	.	.	.	.	42			
23-Sep-06	1230	24-Sep-06	1420	25.83	2003-5-B	2003	5	B	43	.	.	.	.	.	7	.	.	.	.	.	.	50			
25-Oct-06	1305	26-Oct-06	1220	23.25	2003-5-B	2003	5	B	15	.	.	.	.	.	.	.	.	.	.	.	.	15			
3-May-06	12:23	4-May-06	10:30	22.12	2003-5-C	2003	5	C	24	18	.	.	.	.	.	.	.	.	.	.	.	42			too deep to retrieve trap - May 4
9-Jun-06	930	10-Jun-06	1510	29.67	2003-5-C	2003	5	C	5	.	.	.	.	.	10	.	.	.	.	.	.	15			

Notes:
NI - Not Included in Analyses or Site Characterization

2006 Stream Fish Collection Data

SET DATE SET TIME	RAW SET TIME	CHECK DATE CHECK TIME	RAW CHECK TIME	NUMBER OF HOURS	SITE ID	CREEK	REACH	TRAP	COHO	CHINOOK	PINK	CHUM	SOCKEYE	LAMPREY	DOLLY	RAINBOW	3 SPINE SB	9 SPINE SB	5 SPINE SB	SCULPIN	UNKNOWN	TOTAL CAUGHT	COLLECTED	SPECIFIC COMMENTS	COMMENTS
28-Jun-06	949	29-Jun-06	1045	24.93	2003-5-C	2003	5	C	34	.	.	.	.	.	3	.	.	.	.	.	.	37			
12-Jul-06	1022	13-Jul-06	718	20.93	2003-5-C	2003	5	C	1	.	.	.	.	.	.	.	.	.	.	.	.	1		1	bear - trap found open in creek NI
26-Jul-06	1115	27-Jul-06	1120	24.08	2003-5-C	2003	5	C	17	.	.	.	.	.	1	.	.	.	.	.	.	18			
9-Aug-06	930	10-Aug-06	1030	25.00	2003-5-C	2003	5	C	11	.	.	.	.	.	.	.	.	.	.	.	.	11			
23-Aug-06	1525	24-Aug-06	900	17.58	2003-5-C	2003	5	C	2	.	.	.	.	.	4	.	.	.	.	.	.	6			
6-Sep-06	10:47	7-Sep-06	1135	24.80	2003-5-C	2003	5	C	5	.	.	.	.	.	2	.	.	.	.	.	.	7			
23-Sep-06	1235	24-Sep-06	1310	24.58	2003-5-C	2003	5	C	7	.	.	.	.	.	1	.	.	.	.	.	.	8			
25-Oct-06	1310	26-Oct-06	1200	22.83	2003-5-C	2003	5	C	93	.	.	.	.	.	9	.	.	.	.	.	.	102			
3-May-06	12:36	4-May-06	9:30	20.90	2003-6-A	2003	6	A	.	1	.	.	.	.	.	.	.	.	.	.	.	1			
9-Jun-06	1115	10-Jun-06	1630	29.25	2003-6-A	2003	6	A	11	.	.	.	.	.	1	.	.	.	.	.	.	12			banks mass wasting
28-Jun-06	1145	29-Jun-06	1035	22.83	2003-6-A	2003	6	A	15	.	.	.	.	.	1	.	.	.	.	.	.	16			
12-Jul-06	1057	13-Jul-06	735	20.63	2003-6-A	2003	6	A	65	.	.	.	.	.	8	.	.	.	.	.	.	73			
26-Jul-06	1145	27-Jul-06	1155	24.17	2003-6-A	2003	6	A	47	.	.	.	.	.	10	.	.	.	.	.	.	57			
9-Aug-06	958	10-Aug-06	1045	24.78	2003-6-A	2003	6	A	36	.	.	.	.	.	.	.	.	.	.	.	.	36			
23-Aug-06	1545	24-Aug-06	1005	18.33	2003-6-A	2003	6	A	54	.	.	.	.	.	2	.	.	.	.	.	.	56			
6-Sep-06	11:21	7-Sep-06	1153	24.53	2003-6-A	2003	6	A	74	.	.	.	.	1	3	.	.	.	.	.	.	78			
23-Sep-06	1350	24-Sep-06	1250	23.00	2003-6-A	2003	6	A	50	.	.	.	.	.	5	.	.	.	.	.	.	55			
25-Oct-06	1220	26-Oct-06	1100	22.67	2003-6-A	2003	6	A	14	.	.	.	.	.	.	.	.	.	.	.	.	14			
3-May-06	12:20	4-May-06	9:25	21.08	2003-6-B	2003	6	B	.	.	.	.	.	.	.	.	.	.	.	.	.	0			
9-Jun-06	1105	10-Jun-06	1620	29.25	2003-6-B	2003	6	B	17	.	.	.	.	.	3	.	.	.	.	.	.	20			
28-Jun-06	1150	29-Jun-06	1025	22.58	2003-6-B	2003	6	B	52	.	.	.	.	.	7	.	.	.	.	.	.	59			
12-Jul-06	1109	13-Jul-06	743	20.57	2003-6-B	2003	6	B	53	.	.	.	.	.	.	.	.	.	.	.	.	53			
26-Jul-06	1150	27-Jul-06	1150	24.00	2003-6-B	2003	6	B	42	.	.	.	.	.	1	.	.	.	.	.	.	43			
9-Aug-06	955	10-Aug-06	1103	25.13	2003-6-B	2003	6	B	51	.	.	.	.	.	.	.	.	.	.	.	.	51			
23-Aug-06	1550	24-Aug-06	950	18.00	2003-6-B	2003	6	B	109	.	.	.	.	.	3	.	.	.	.	.	.	112			
6-Sep-06	11:17	7-Sep-06	1143	24.43	2003-6-B	2003	6	B	12	.	.	.	.	.	.	.	.	.	.	.	.	12		1	bear NI
23-Sep-06	1355	24-Sep-06	1240	22.75	2003-6-B	2003	6	B	91	.	.	.	.	.	3	.	.	.	.	.	.	94			
25-Oct-06	1215	26-Oct-06	1115	23.00	2003-6-B	2003	6	B	12	.	.	.	.	.	1	.	.	.	.	.	.	13			
3-May-06	12:11	4-May-06	9:00	20.82	2003-6-C	2003	6	C	.	.	.	.	.	.	.	.	.	.	.	1	.	1			
9-Jun-06	1050	10-Jun-06	1640	29.83	2003-6-C	2003	6	C	6	.	.	.	.	.	1	.	.	.	.	.	.	7			banks mass wasting
28-Jun-06	1130	29-Jun-06	1015	22.75	2003-6-C	2003	6	C	31	.	.	.	.	.	7	.	.	.	.	.	.	38			
12-Jul-06	1104	13-Jul-06	727	20.38	2003-6-C	2003	6	C	44	.	.	.	.	.	12	.	.	.	.	.	.	56			
26-Jul-06	1140	27-Jul-06	1145	24.08	2003-6-C	2003	6	C	8	.	.	.	.	.	2	.	.	.	.	.	.	10			
9-Aug-06	1003	10-Aug-06	1122	25.32	2003-6-C	2003	6	C	54	.	.	.	.	1	1	.	.	.	.	2	.	58			
23-Aug-06	1555	24-Aug-06	935	17.67	2003-6-C	2003	6	C	52	.	.	.	.	1	4	.	.	.	.	.	.	57			
6-Sep-06	11:14	7-Sep-06	1137	24.38	2003-6-C	2003	6	C	29	.	.	.	.	.	.	.	.	.	.	.	.	29		2	trap caught in current NI
23-Sep-06	1400	24-Sep-06	1230	22.50	2003-6-C	2003	6	C	36	.	.	.	.	.	1	.	.	.	.	.	.	37			
25-Oct-06	1210	26-Oct-06	1110	23.00	2003-6-C	2003	6	C	7	.	.	.	.	.	3	.	.	.	.	.	.	10			
9-Jun-06	905	10-Jun-06	955	24.83	2003-7-A	2003	7	A	.	.	.	.	.	.	.	.	.	.	.	.	1	1		1	bear NI
28-Jun-06	1038	29-Jun-06	935	22.95	2003-7-A	2003	7	A	4	.	.	.	.	.	.	.	.	.	.	1	.	5			
12-Jul-06	926	13-Jul-06	638	21.20	2003-7-A	2003	7	A	17	.	.	.	.	.	.	.	.	.	.	1	.	18			
26-Jul-06	1035	27-Jul-06	1025	23.83	2003-7-A	2003	7	A	5	.	.	.	.	.	.	.	.	.	.	.	.	5			
9-Aug-06	1035	10-Aug-06	830	21.92	2003-7-A	2003	7	A	24	.	.	.	.	.	.	.	.	.	.	2	.	26			
23-Aug-06	1415	24-Aug-06	852	18.62	2003-7-A	2003	7	A	23	3	.	.	.	.	1	.	.	.	.	.	.	27			
6-Sep-06	10:10	7-Sep-06	942	23.53	2003-7-A	2003	7	A	5	.	.	.	.	.	.	.	.	.	.	.	.	5			
23-Sep-06	1000	24-Sep-06	1600	30.00	2003-7-A	2003	7	A	15	.	.	.	.	.	2	.	.	.	.	1	.	18			
25-Oct-06	1435	26-Oct-06	1350	23.25	2003-7-A	2003	7	A	.	.	.	.	.	.	.	.	.	.	.	.	.	0		2	No fish. Trap came untied, but located in same spot as previous day's set.
9-Jun-06	900	10-Jun-06	950	24.83	2003-7-B	2003	7	B	.	.	.	.	.	.	.	.	.	.	.	.	.	0			
28-Jun-06	1030	29-Jun-06	930	23.00	2003-7-B	2003	7	B	.	.	.	.	.	.	.	.	.	.	.	.	.	0			
12-Jul-06	917	13-Jul-06	640	21.38	2003-7-B	2003	7	B	36	.	.	.	.	.	.	.	.	.	.	.	.	36			
26-Jul-06	1030	27-Jul-06	1020	23.83	2003-7-B	2003	7	B	4	.	.	.	.	.	.	.	.	.	.	1	.	5			
9-Aug-06	838	10-Aug-06	848	24.17	2003-7-B	2003	7	B	18	.	.	.	.	.	.	.	.	.	.	2	.	20			
23-Aug-06	1420	24-Aug-06	902	18.70	2003-7-B	2003	7	B	17	.	.	.	.	.	5	.	.	.	.	.	1	23			
6-Sep-06	10:14	7-Sep-06	940	23.43	2003-7-B	2003	7	B	8	.	.	.	.	.	1	.	.	.	.	.	.	9			
23-Sep-06	1005	24-Sep-06	1610	30.08	2003-7-B	2003	7	B	31	.	.	.	.	.	.	.	.	.	.	4	.	35			
25-Oct-06	1425	26-Oct-06	1440	24.25	2003-7-B	2003	7	B	.	.	.	.	.	.	.	.	.	.	.	.	.	0			No fish.
9-Jun-06	855	10-Jun-06	940	24.75	2003-7-C	2003	7	C	7	1	.	.	.	.	2	.	.	.	.	.	.	10			
28-Jun-06	1035	29-Jun-06	925	22.83	2003-7-C	2003	7	C	4	.	.	.	.	.	7	.	.	.	.	2	.	13			
12-Jul-06	922	13-Jul-06	643	21.35	2003-7-C	2003	7	C	12	.	.	.	.	.	.	.	.	.	.	2	.	14			
26-Jul-06	1025	27-Jul-06	1010	23.75	2003-7-C	2003	7	C	12	.	.	.	.	.	1	.	.	.	.	.	.	13			
9-Aug-06	900	10-Aug-06	900	24.00	2003-7-C	2003	7	C	36	.	.	.	.	.	.	.	.	.	.	3	.	39			
23-Aug-06	142	24-Aug-06	910	18.83	2003-7-C	2003	7	C	24	2	.	.	.	.	2	.	.	.	.	.	.	28			
6-Sep-06	10:18	7-Sep-06	935	23.28	2003-7-C	2003	7	C	9	.	.	.	.	.	9	.	.	.	.	.	.	18			

Notes:
NI - Not Included in Analyses or Site Characterization

2006 Stream Fish Collection Data

SET DATE SET TIME	RAW SET TIME	CHECK DATE CHECK TIME	RAW CHECK TIME	NUMBER OF HOURS	SITE ID	CREEK	REACH	TRAP	COHO	CHINOOK	PINK	CHUM	SOCKEYE	LAMPREY	DOLLY	RAINBOW	3 SPINE SB	9 SPINE SB	5 SPINE SB	SCULPIN	UNKNOWN	TOTAL CAUGHT	COLLECTED	SPECIFIC COMMENTS	COMMENTS
23-Sep-06	1010	24-Sep-06	1615	30.08	2003-7-C	2003	7	C	6	.	.	.	.	.	.	.	.	.	.	.	.	6			above beaver dam
25-Oct-06	1430	26-Oct-06	1430	24.00	2003-7-C	2003	7	C	.	.	.	.	.	.	.	.	.	.	.	1	.	1			8 beetles
9-Jun-06	1100	10-Jun-06	1550	28.83	2003-8-A	2003	8	A	11	.	.	.	.	.	.	.	.	.	.	.	.	11		1	bear NI
28-Jun-06	1112	29-Jun-06	1013	23.02	2003-8-A	2003	8	A	5	.	.	.	.	.	5	.	.	.	.	.	.	10			
12-Jul-06	1110	13-Jul-06	812	21.03	2003-8-A	2003	8	A	4	.	.	.	.	.	6	.	.	.	.	.	.	10			
26-Jul-06	1135	27-Jul-06	1130	23.92	2003-8-A	2003	8	A	2	.	.	.	.	.	6	.	.	.	.	.	.	8			
9-Aug-06	936	10-Aug-06	1016	24.67	2003-8-A	2003	8	A	8	.	.	.	.	.	.	.	.	.	.	.	.	8			
23-Aug-06	1545	24-Aug-06	1053	19.13	2003-8-A	2003	8	A	4	14	.	.	.	.	1	.	.	.	.	.	.	19			
6-Sep-06	11:14	7-Sep-06	1207	24.88	2003-8-A	2003	8	A	31	.	.	.	.	.	5	.	.	.	.	.	.	36			
23-Sep-06	1255	24-Sep-06	1432	25.62	2003-8-A	2003	8	A	18	.	.	.	.	.	1	.	.	.	.	.	.	19			
25-Oct-06	1310	26-Oct-06	1120	22.17	2003-8-A	2003	8	A	1	.	.	.	.	.	.	.	.	.	.	.	.	1			
9-Jun-06	1055	10-Jun-06	1555	29.00	2003-8-B	2003	8	B	.	.	.	.	.	.	.	.	.	.	.	.	.	0		1	bear NI
28-Jun-06	1100	29-Jun-06	1019	23.32	2003-8-B	2003	8	B	19	.	.	.	.	.	.	.	.	.	.	.	.	19			
12-Jul-06	1115	13-Jul-06	808	20.88	2003-8-B	2003	8	B	31	.	.	.	.	.	.	.	.	.	.	.	.	31			
26-Jul-06	1140	27-Jul-06	1135	23.92	2003-8-B	2003	8	B	30	.	.	.	.	.	1	.	.	.	.	.	.	31			
9-Aug-06	939	10-Aug-06	1020	24.68	2003-8-B	2003	8	B	12	.	.	.	.	.	.	.	.	.	.	.	.	12			
23-Aug-06	1548	24-Aug-06	1102	19.23	2003-8-B	2003	8	B	4	.	.	.	.	.	.	.	.	.	.	.	.	4			
6-Sep-06	11:22	7-Sep-06	1216	24.90	2003-8-B	2003	8	B	20	.	.	.	.	.	.	.	.	.	.	.	.	20			
23-Sep-06	1300	24-Sep-06	1436	25.60	2003-8-B	2003	8	B	2	.	.	.	.	.	.	.	.	.	.	.	.	2			
25-Oct-06	1315	26-Oct-06	1115	22.00	2003-8-B	2003	8	B	10	.	.	.	.	.	2	.	.	.	.	.	.	12			
9-Jun-06	1050	10-Jun-06	1545	28.92	2003-8-C	2003	8	C	4	.	.	.	.	.	2	.	.	.	.	.	.	6		1	bear NI
28-Jun-06	1054	29-Jun-06	1024	23.50	2003-8-C	2003	8	C	4	.	.	.	.	.	6	.	.	.	.	.	.	10			
12-Jul-06	1120	13-Jul-06	800	20.67	2003-8-C	2003	8	C	10	.	.	.	.	.	8	.	.	.	.	.	.	18			
26-Jul-06	1142	27-Jul-06	1140	23.97	2003-8-C	2003	8	C	22	.	.	.	.	.	.	.	.	.	.	.	.	22			
9-Aug-06	941	10-Aug-06	1025	24.73	2003-8-C	2003	8	C	18	.	.	.	.	.	1	.	.	.	.	.	.	19			
23-Aug-06	1550	24-Aug-06	1108	19.30	2003-8-C	2003	8	C	20	.	.	.	.	.	.	.	.	.	.	.	.	20			
6-Sep-06	11:26	7-Sep-06	1221	24.92	2003-8-C	2003	8	C	32	.	.	.	.	.	.	.	.	.	.	.	.	32			
23-Sep-06	1305	24-Sep-06	1438	25.55	2003-8-C	2003	8	C	18	.	.	.	.	.	1	.	.	.	.	.	.	19			
25-Oct-06	1320	26-Oct-06	1110	21.83	2003-8-C	2003	8	C	.	.	.	.	.	.	.	.	.	.	.	.	.	0			
11-Jun-06	715	12-Jun-06	1155	28.67	2003-9-A	2003	9	A	.	.	.	.	.	.	.	.	.	.	.	.	.	0			
28-Jun-06	1300	29-Jun-06	1134	22.57	2003-9-A	2003	9	A	.	.	.	.	.	.	.	.	.	.	.	.	.	0			
12-Jul-06	1219	13-Jul-06	804	19.75	2003-9-A	2003	9	A	3	.	.	.	.	.	.	.	.	.	.	.	.	3			
26-Jul-06	1320	27-Jul-06	1230	23.17	2003-9-A	2003	9	A	11	.	.	.	.	.	.	.	.	.	.	.	.	11			
9-Aug-06	1029	10-Aug-06	1054	24.42	2003-9-A	2003	9	A	13	.	.	.	.	.	1	.	.	.	.	.	.	14			
23-Aug-06	1618	24-Aug-06	1138	19.33	2003-9-A	2003	9	A	.	.	.	.	.	.	.	.	.	.	.	.	.	0		1	bear NI
6-Sep-06	12:14	7-Sep-06	1244	24.50	2003-9-A	2003	9	A	.	.	.	.	.	.	.	.	.	.	.	.	.	0		1	bear NI
23-Sep-06	1820	24-Sep-06	1155	17.58	2003-9-A	2003	9	A	28	.	.	.	.	.	.	.	.	.	.	.	.	28			
25-Oct-06	1055	26-Oct-06	1010	23.25	2003-9-A	2003	9	A	4	.	.	.	.	.	.	.	.	.	.	.	.	4			
11-Jun-06	725	12-Jun-06	1200	28.58	2003-9-B	2003	9	B	.	.	.	.	.	.	.	.	.	.	.	.	.	0			
28-Jun-06	1239	29-Jun-06	1135	22.93	2003-9-B	2003	9	B	.	.	.	.	.	.	.	.	.	.	.	.	.	0			
12-Jul-06	1214	13-Jul-06	807	19.88	2003-9-B	2003	9	B	.	.	.	.	.	.	.	.	.	.	.	.	.	0			
26-Jul-06	1315	27-Jul-06	1225	23.17	2003-9-B	2003	9	B	8	.	.	.	.	.	.	.	.	.	.	.	.	8			
9-Aug-06	1029	10-Aug-06	1047	24.30	2003-9-B	2003	9	B	14	.	.	.	.	.	1	.	.	.	.	1	.	16			
23-Aug-06	1614	24-Aug-06	1130	19.27	2003-9-B	2003	9	B	35	.	.	.	.	.	.	.	.	.	.	1	.	36			
6-Sep-06	12:08	7-Sep-06	1236	24.47	2003-9-B	2003	9	B	39	.	.	.	.	.	.	.	.	.	.	.	.	39			
23-Sep-06	1825	24-Sep-06	1145	17.33	2003-9-B	2003	9	B	59	.	.	.	.	.	.	.	.	.	.	3	.	62			
25-Oct-06	1100	26-Oct-06	1000	23.00	2003-9-B	2003	9	B	17	.	.	.	.	.	.	.	.	.	.	.	.	17			
11-Jun-06	730	12-Jun-06	1205	28.58	2003-9-C	2003	9	C	.	.	.	.	.	.	.	.	.	.	.	.	.	0	Ditytistic beetles		
28-Jun-06	1255	29-Jun-06	1135	22.67	2003-9-C	2003	9	C	.	.	.	.	.	.	.	.	.	.	.	.	.	0			
12-Jul-06	1207	13-Jul-06	809	20.03	2003-9-C	2003	9	C	.	.	.	.	.	.	.	.	.	.	.	.	.	0			trap set for only 10 minutes, caught 14 coho downstream of tall dry dam
26-Jul-06	1325	27-Jul-06	1235	23.17	2003-9-C	2003	9	C	.	.	.	.	.	.	.	.	.	.	.	.	.	0			
9-Aug-06	1034	10-Aug-06	1105	24.52	2003-9-C	2003	9	C	.	.	.	.	.	.	.	.	.	.	.	.	.	0			
23-Aug-06	1620	24-Aug-06	1147	19.45	2003-9-C	2003	9	C	1	.	.	.	.	.	.	.	.	.	.	.	.	1			
6-Sep-06	12:20	7-Sep-06	1248	24.47	2003-9-C	2003	9	C	.	.	.	.	.	.	.	.	.	.	.	.	.	0			
23-Sep-06	1830	24-Sep-06	1150	17.33	2003-9-C	2003	9	C	.	.	.	.	.	.	.	.	.	.	.	.	.	0			
25-Oct-06	1105	26-Oct-06	1015	23.17	2003-9-C	2003	9	C	.	.	.	.	.	.	.	.	.	.	.	.	.	0			
11-Jun-06	1245	12-Jun-06	855	20.17	2004-1-A	2004	1	A	8	.	.	.	.	.	7	1	.	.	.	.	.	16			
28-Jun-06	1610	29-Jun-06	1430	22.33	2004-1-A	2004	1	A	7	.	.	.	.	1	1	2	.	.	.	.	.	11			
10-Jul-06	1335	11-Jul-06	1402	24.45	2004-1-A	2004	1	A	9	2	.	.	.	.	7	.	.	.	.	.	.	18			
22-Jul-06	1610	23-Jul-06	1115	19.08	2004-1-A	2004	1	A	17	1	.	.	.	.	5	1	.	.	.	.	.	24			
9-Aug-06	1350	10-Aug-06	1427	24.62	2004-1-A	2004	1	A	17	.	.	.	.	.	4	1	.	.	.	.	.	22			
23-Aug-06	1900	24-Aug-06	1400	19.00	2004-1-A	2004	1	A	6	.	.	.	.	.	.	1	.	.	.	.	.	7			
6-Sep-06	14:45	7-Sep-06	1511	24.43	2004-1-A	2004	1	A	.	3	.	.	.	.	.	1	.	.	.	.	.	4			
25-Sep-06	950	26-Sep-06	1145	25.92	2004-1-A	2004	1	A	.	.	.	.	.	.	.	.	.	.	.	.	.	0			

Notes:
NI - Not Included in Analyses or Site Characterization

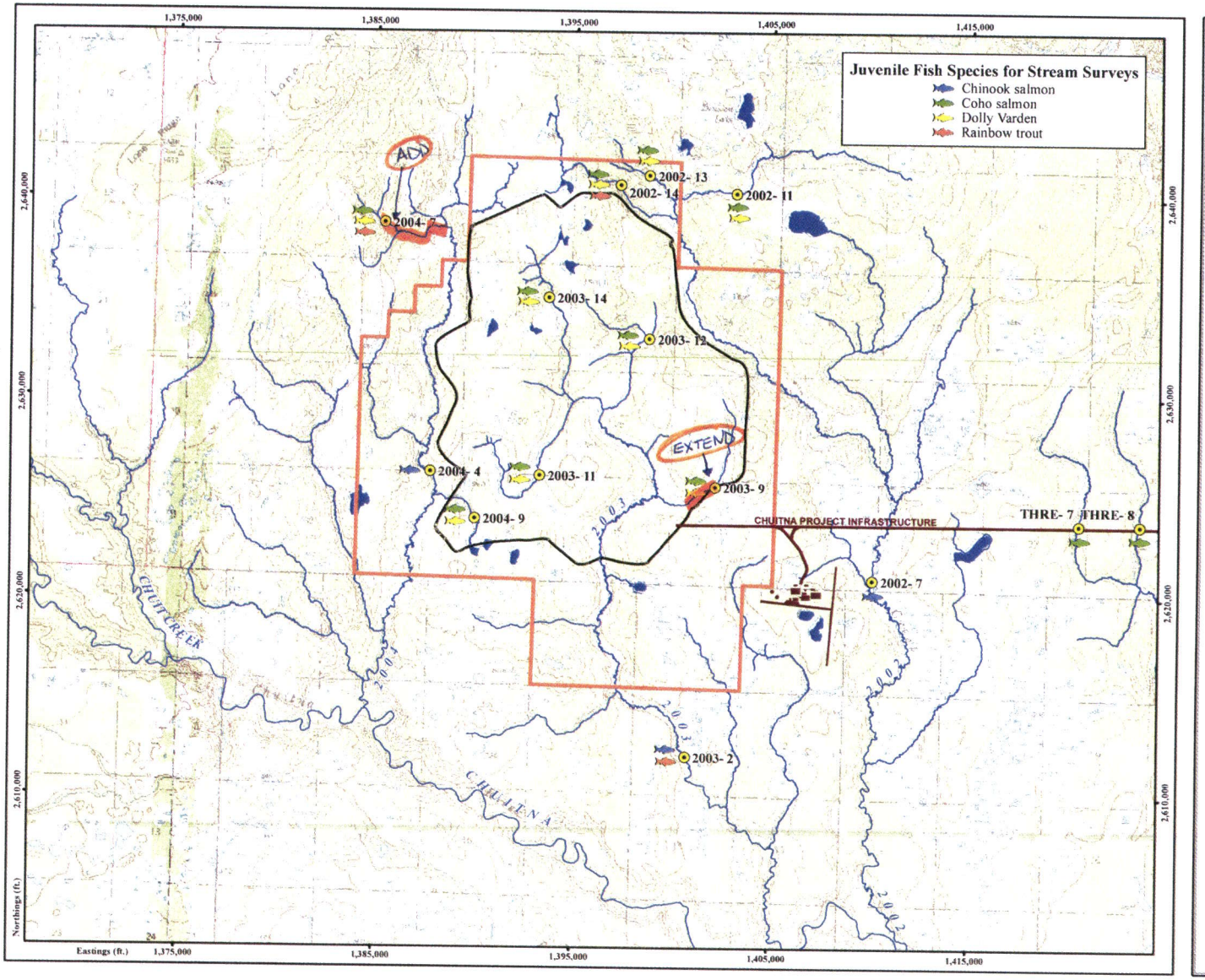


FIGURE 3.1-4.
2007 MAXIMUM DISTRIBUTION OF JUVENILE FISH SPECIES SAMPLED BY MINNOW TRAPS

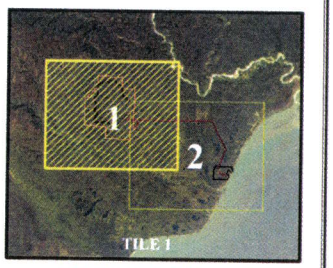


FIGURE LOCATION MAP

Legend

- Stream Minnow Trapping Sites
- Project Area Stream
- Proposed Road & Conveyor
- Proposed Facilities
- Ladd Landing Boundary
- Lease Mining Unit-1 Boundary
- Lease Boundary

Data Sources:
Juvenile Fish Species Distribution, Oasis, 2007
Stream Minnow Trap Survey Sites, Oasis, 2007
Mine Infrastructure, Mine Engineers, 2006.
Hydrology, Oasis, 2007
USGS Topographic Quadrangle, 1:63360, Tyonek Sheets A2, A5, & A7, 1958.

N

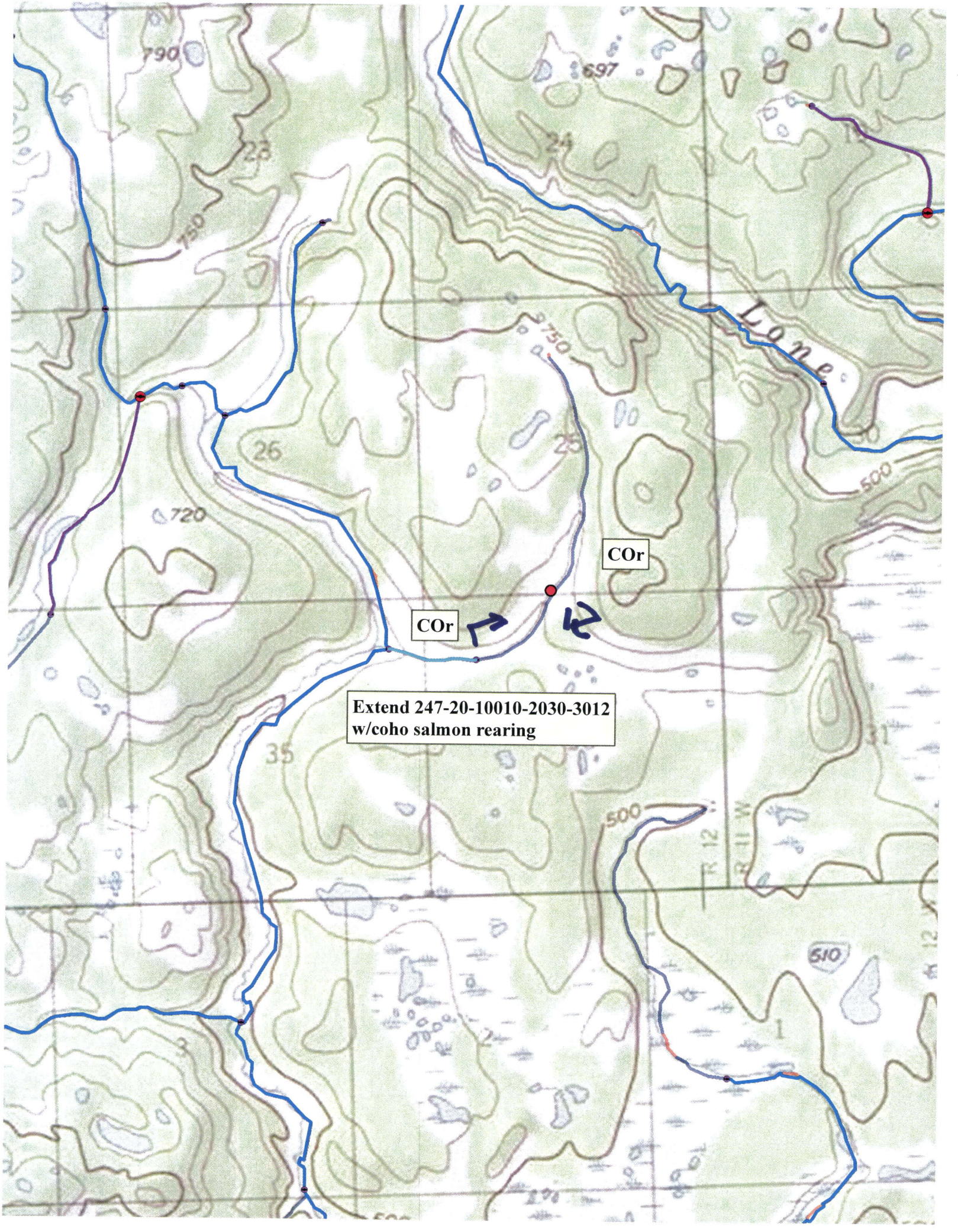
0 0.25 0.5 1 1.5 Miles
0 0.5 1 2 Kilometers

1:60,000 1 inch equals 5,000 feet
Projection: NAD83 AK State Plane Zone 4 (feet)

CHUITNA COAL PROJECT

PACRIM COAL

PacRim Coal, LP
711 H Street, Suite 350
Anchorage, AK 99501 USA
Phone: (907) 276-6868


790
697
23
24
750
750
Lone
26
25
720
500
COr
COr
Extend 247-20-10010-2030-3012
w/coho salmon rearing
35
31
500
R 12 W
510
1
2
3