Appendix 4

Detailed Fish Habitat Assessment Protocol (FHAP) Data Sheets, Roberts Lake Tributaries, Doris North Project, 2012

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Doris North Project - Fish Habitat Stream Survey Form

LOCATION:	E09	Survey Date (d/m/y):	5-Aug-12	Coordinates:	Coordinates:
SITE:	DS	Survey Crew:	MS/PG	441126	
Survey Distance (m)	25			7559601	

Temperature (°C):	13	Transparency:	Clear	Comments	
Channel Velocity (m/s):	0.1	Conductivity (uS/cm):			
Current Flow Conditions:	L	pH:		Weather:	Some cloud, mostly sunny, light breeze
Discharge estimate (m^3/s)	0.1				

Hab Unit No.	Hab Type	Dist. from Start (m)	Length (m)	Slope (%)	Depth (m)		Width (m)		Bed Material					Pool Info			Fish Passage Barriers	
					Mean	Bankfull	Mean	Bankfull	Fines (%)	Gravel (%)	Cobble (%)	Boulder (%)	Bedrock (%)	Type	Depth (m) Max	Depth (m) Crest	Type	T/P
1	P	0	1.5	0.0	0.20	0.50	1.5	1.5	10	10	40	40	0	D	0.30	0.1	N	
2	R	1.5	13.5	1.0	0.10	0.70	0.5	0.7	0	10	80	10	0				N	
3	C	15	0.5	50.0	-	-	0.2	0.5	0	0	0	100	0				IF	T
4	R	15.5	7.5	1.5	0.10	0.50	0.3	0.5	0	20	80	0	0				N	
5	P	23	2	0.5	0.20	0.20	3	4	5	30	50	15	0	S	0.30	0.1	N	
6																		
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19																		
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Flow Conditions	*H = High flow, M = Medium flow, L = Low flow*
Habitat Unit	*Under bankfull conditions: 0 - 2.5 m = > 1 m^2 , 2.5 - 5 m = > 2 m^2 , 5 - 10 m = > 4 m^2 , 10 -15 m = > 6 m^2 , 15 -20 = > 8 m^2 , > 20 m = > 10 m^2*
Habitat Type	*P = pool, G = glide, R = riffle, C = cascade, UG = underground, BG = boulder garden*
Distance from Start	*distance from beginning of the survey to the beginning of the habitat unit being surveyed*
Pool Type	*S = scour, D = dammed, U = unknown*
Substrate	*Sand (< 2 mm), Gravel (2 - 64 mm), Cobble (64 - 256), Boulders (256 - 4,000 mm), Bedrock (> 4,000 mm)*
Fish Passage Barriers	*IF = Impassible waterfall*
	BF = Boulder Field, passage through the boulder arrangement is not possible for fish
	D = dry channel, no stream flow
	NC = no distinct channel, water drains over land
	N = no barrier to fish passage through the habitat unit
T/P	*T = temporary, portion of open water season*
	P = Permanent, all year round

Doris North Project - Fish Habitat Stream Survey Form

LOCATION: E09 **SITE:** DS **DATE:** 8/5/2012 **CREW:** MS/PG

Hab Unit No.	Banks of Channel				Instream Cover							Photos #	Comments	Riparian Cover		
	L Bank Height (m)	R Bank Height (m)	L Bank Stab	R Bank Stab	Pool %	Boulder %	Instream Veg %	Overhang Veg %	Undercut Bank %	LWD %	SWD %			Canopy %	LB %	RB %
1	0.20	0.20	H	H	20	20	0	10	50	0	0	201	Low gradient near mouth	10	5	5
2	0.40	0.40	H	H	10	30	0	30	30	0	0	200				
3	-	-	-	-	-	-	-	-	-	-	-	202	bottom			
4	0.10	0.10	H	H	0	0	0	50	50	0	0	203				
5	0.30	0.30	H	H	10	80	0	5	5	0	0	204				
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Banks of Channel (Stability) *H = highly stable, S = stable, U = unstable*

Comments:

Doris North Project - Fish Habitat Stream Survey Form

LOCATION:	E09	Survey Date (d/m/y):	5-Aug-12	Coordinates:	Coordinates:
SITE:	M	Survey Crew:	MS/PG	441094	
Survey Distance (m)	25			7559567	
Temperature (°C):	13	Transparency:	Clear	Comments	
Channel Velocity (m/s):	0.1	Conductivity (uS/cm):			
Current Flow Conditions:	L	pH:		Weather:	Some cloud, mostly sunny, light breeze
Discharge estimate (m^3/s)	0.1				

Hab Unit No.	Hab Type	Dist. from Start (m)	Length (m)	Slope (%)	Depth (m)		Width (m)		Bed Material					Pool Info			Fish Passage Barriers	
					Mean	Bankfull	Mean	Bankfull	Fines (%)	Gravel (%)	Cobble (%)	Boulder (%)	Bedrock (%)	Type	Depth (m) Max	Depth (m) Crest	Type	T/P
1	P	0	2	0.0	0.20	0.30	2.0	3.0	0	5	60	35	0	S	0.30	0.1	N	
2	R	2	2	1.0	0.10	0.20	0.3	0.5	0	0	90	10	0				N	
3	P	4	3	0.5	0.20	0.30	0.7	1.5	0	0	90	10	0	S	0.30	0.1	N	
4	R	7	8	1.0	0.10	0.30	0.5	1	0	0	50	50	0				N	
5	C	15	1	5.0	0.10	0.20	0.2	0.5	0	0	0	100	0				IF	T
6	R	16	2	1.5	0.10	0.20	0.2	0.5	0	0	0	100	0				N	
7	P	18	7	0.5	0.30	0.50	1	2	0	10	70	20	0	S	0.3	0.1	N	
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Flow Conditions *H = High flow, M = Medium flow, L = Low flow*

Habitat Unit *Under bankfull conditions: 0 - 2.5 m = > 1 m^2 , 2.5 - 5 m = > 2 m^2 , 5 - 10 m = > 4 m^2 , 10 -15 m = > 6 m^2 , 15 -20 = > 8 m^2 , > 20 m = > 10 m^2*

Habitat Type *P = pool, G = glide, R = riffle, C = cascade, UG = underground, BG = boulder garden*

Distance from Start *distance from beginning of the survey to the beginning of the habitat unit being surveyed*

Pool Type *S = scour, D = dammed, U = unknown*

Substrate *Sand (< 2 mm), Gravel (2 - 64 mm), Cobble (64 - 256), Boulders (256 - 4,000 mm), Bedrock (> 4,000 mm)*

Fish Passage Barriers *IF = Impassible waterfall*
BF = Boulder Field, passage through the boulder arrangement is not possible for fish
D = dry channel, no stream flow
NC = no distinct channel, water drains over land
N = no barrier to fish passage through the habitat unit

T/P *T = temporary, portion of open water season*
P = Permanent, all year round

Doris North Project - Fish Habitat Stream Survey Form

LOCATION: E09 **SITE:** M **DATE:** 8/5/2012 **CREW:** MS/PG

Hab Unit No.	Banks of Channel				Instream Cover							Photos #	Comments	Riparian Cover		
	L Bank Height (m)	R Bank Height (m)	L Bank Stab	R Bank Stab	Pool %	Boulder %	Instream Veg %	Overhang Veg %	Undercut Bank %	LWD %	SWD %			Canopy %	LB %	RB %
1	0.20	0.20	H	H	10	80	0	10	0	0	0					
2	0.10	0.10	H	H	0	90	0	10	0	0	0					
3	0.20	0.20	H	H	30	0	0	40	30	0	0					
4	0.20	0.20	H	H	0	60	0	20	20	0	0					
5	0.20	0.20	H	H	0	0	0	100	0	0	0		Barrier at low flow			
6	0.10	0.10	H	H	0	0	0	0	100	0	0					
7	0.20	0.20	H	H	10	30	0	30	30	0	0					
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Banks of Channel (Stability) *H = highly stable, S = stable, U = unstable*

Comments:

Doris North Project - Fish Habitat Stream Survey Form

LOCATION:	E09	Survey Date (d/m/y):	5-Aug-12	Coordinates:	Coordinates:
SITE:	US	Survey Crew:	MS/PG	440726	
Survey Distance (m)	25			7559413	

Temperature (°C):	13	Transparency:	Clear	Comments	
Channel Velocity (m/s):	0.1	Conductivity (uS/cm):			
Current Flow Conditions:	L	pH:		Weather:	Some cloud, mostly sunny, light breeze
Discharge estimate (m^3/s)	0.1				

Hab Unit No.	Hab Type	Dist. from Start (m)	Length (m)	Slope (%)	Depth (m)		Width (m)		Bed Material					Pool Info			Fish Passage Barriers	
					Mean	Bankfull	Mean	Bankfull	Fines (%)	Gravel (%)	Cobble (%)	Boulder (%)	Bedrock (%)	Type	Depth (m) Max	Depth (m) Crest	Type	T/P
1	R	0	20	0.5	0.10	0.30	0.3	1.5	100	0	0	0	0				N	
2	P	20	5	0.5	0.50	0.70	3.0	5.0	100	0	0	0	0	S	0.90	0.1	N	
3																		
4																		
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Flow Conditions	*H = High flow, M = Medium flow, L = Low flow*
Habitat Unit	*Under bankfull conditions: 0 - 2.5 m = > 1 m^2 , 2.5 - 5 m = > 2 m^2 , 5 - 10 m = > 4 m^2 , 10 -15 m = > 6 m^2 , 15 -20 = > 8 m^2 , > 20 m = > 10 m^2*
Habitat Type	*P = pool, G = glide, R = riffle, C = cascade, UG = underground, BG = boulder garden*
Distance from Start	*distance from beginning of the survey to the beginning of the habitat unit being surveyed*
Pool Type	*S = scour, D = dammed, U = unknown*
Substrate	*Sand (< 2 mm), Gravel (2 - 64 mm), Cobble (64 - 256), Boulders (256 - 4,000 mm), Bedrock (> 4,000 mm)*
Fish Passage Barriers	*IF = Impassible waterfall*
	BF = Boulder Field, passage through the boulder arrangement is not possible for fish
	D = dry channel, no stream flow
	NC = no distinct channel, water drains over land
	N = no barrier to fish passage through the habitat unit
T/P	*T = temporary, portion of open water season*
	P = Permanent, all year round

Doris North Project - Fish Habitat Stream Survey Form

LOCATION: E09 **SITE:** US **DATE:** 8/5/2012 **CREW:** MS/PG

Hab Unit No.	Banks of Channel				Instream Cover							Photos #	Comments	Riparian Cover		
	L Bank Height (m)	R Bank Height (m)	L Bank Stab	R Bank Stab	Pool %	Boulder %	Instream Veg %	Overhang Veg %	Undercut Bank %	LWD %	SWD %			Canopy %	LB %	RB %
1	0.10	0.10	H	H	0	0	40	30	30	0	0	205				
2	0.50	0.50	H	H	50	0	25	10	15	0	0	206				
3																
4																
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18																
19																
20																

Banks of Channel (Stability) *H = highly stable, S = stable, U = unstable*

Comments:

Doris North Project - Fish Habitat Stream Survey Form

LOCATION:	E14	Survey Date (d/m/y):	5-Aug-12	Coordinates:	Coordinates:
SITE:	E14	Survey Crew:	MS/PG	436784	
Survey Distance (m)	25			7563358	
Temperature (°C):	13	Transparency:	Clear	Comments	
Channel Velocity (m/s):	0.1	Conductivity (uS/cm):			
Current Flow Conditions:	L	pH:		Weather:	Some cloud, mostly sunny, light breeze
Discharge estimate (m^3/s)	0.1				

Hab Unit No.	Hab Type	Dist. from Start (m)	Length (m)	Slope (%)	Depth (m)		Width (m)		Bed Material					Pool Info			Fish Passage Barriers	
															Depth (m)			
					Mean	Bankfull	Mean	Bankfull	Fines (%)	Gravel (%)	Cobble (%)	Boulder (%)	Bedrock (%)	Type	Max	Crest	Type	T/P
1	R	0	15	0.5	0.30	0.50	0.5	1.5	30	60	10	0	0				N	
2	P	15	3	0.5	0.40	0.50	1.5	3.0	50	40	10	0	0	S	0.50	0.2	N	
3	R	18	2	0.5	0.10	0.30	0.4	2.5	50	50	0	0	0				N	
4	P	20	5	0.5	0.30	0.50	2	4	50	40	10	0	0		0.50	0.2	N	
5																		
6																		
7																		
8																		
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19																		
20																		

Flow Conditions *H = High flow, M = Medium flow, L = Low flow*

Habitat Unit *Under bankfull conditions: 0 - 2.5 m = > 1 m^2 , 2.5 - 5 m = > 2 m^2 , 5 - 10 m = > 4 m^2 , 10 -15 m = > 6 m^2 , 15 -20 = > 8 m^2 , > 20 m = > 10 m^2*

Habitat Type *P = pool, G = glide, R = riffle, C = cascade, UG = underground, BG = boulder garden*

Distance from Start *distance from beginning of the survey to the beginning of the habitat unit being surveyed*

Pool Type *S = scour, D = dammed, U = unknown*

Substrate *Sand (< 2 mm), Gravel (2 - 64 mm), Cobble (64 - 256), Boulders (256 - 4,000 mm), Bedrock (> 4,000 mm)*

Fish Passage Barriers *IF = Impassible waterfall*
BF = Boulder Field, passage through the boulder arrangement is not possible for fish
D = dry channel, no stream flow
NC = no distinct channel, water drains over land
N = no barrier to fish passage through the habitat unit

T/P *T = temporary, portion of open water season*
P = Permanent, all year round

Doris North Project - Fish Habitat Stream Survey Form

LOCATION: E14 **SITE:** E14 **DATE:** 8/5/2012 **CREW:** MS/PG

Hab Unit No.	Banks of Channel				Instream Cover							Photos #	Comments	Riparian Cover		
	L Bank Height (m)	R Bank Height (m)	L Bank Stab	R Bank Stab	Pool %	Boulder %	Instream Veg %	Overhang Veg %	Undercut Bank %	LWD %	SWD %			Canopy %	LB %	RB %
1	0.20	0.20	H	H	0	0	0	50	50	0	0					
2	0.30	0.30	H	H	40	0	0	30	30	0	0					
3	0.10	0.10	H	H	0	0	50	50	0	0	0					
4	0.30	0.30	U	H	30	30	30	0	10	0	0					
5																
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Banks of Channel (Stability) *H = highly stable, S = stable, U = unstable*

Comments:

Appendix 5

Biological Data from Electrofishing in Roberts Lake Tributaries, Doris North Project, 2012

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Appendix 5. Biological Data from Electrofishing in Roberts Lake Tributaries, Doris North Project, 2012

Date (dd/mm/yy)	Site	Unique Sample No.	Species Code	Fork Length (mm)	Weight (g)	Condition (K)	PIT Tag No.	Recap (Y/N)
08-Jul-12	E14	S1	AC	143	32	1.09	900026000062773	N
08-Jul-12	E14	S2	AC	76	7.2	1.64	-	N
08-Jul-12	E14	S3	AC	101	11.2	1.09	900026000062755	N
21-Jul-12	E09 - M	S4	AC	120	18	1.04	900026000149671	N
22-Jul-12	E14	S5	LT	225	101	0.89	-	N
22-Jul-12	E14	S6	LT	112	15	1.07	-	N
05-Aug-12	E09 - DS	S7	AC	-	-	-	-	N
05-Aug-12	E09 - M	S8	AC	116	29.5	1.89	900026000149671	Y
05-Aug-12	E09 - M	S9	AC	149	42.4	1.28	900026000149614	Y
05-Aug-12	E14	S10	NSB	60	1.5	0.69	-	N
05-Aug-12	E14	S11	NSB	63	1.5	0.60	-	N
05-Aug-12	E14	S12	AC	114	25.6	1.73	900026000149714	N
05-Aug-12	E14	S13	AC	124	27.5	1.44	900026000149743	N
05-Aug-12	E14	S14	AC	93	18.1	2.25	900026000149772	N
05-Aug-12	E14	S15	AC	86	9.5	1.49	900026000149696	N
05-Aug-12	E14	S16	AC	86	8.5	1.34	900026000149728	N
05-Aug-12	E14	S17	NSB	45	0.5	0.55	-	N

Species Code: AC = Arctic char, LT = lake trout, NSB = ninespine stickleback

Y = yes, N = no

Dashes indicate not applicable

Appendix 6

Catch and Effort Data from Electrofishing in Tributaries of Roberts Lake, Doris North Project, 2012

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Appendix 6. Catch and Effort Data from Electrofishing in Tributaries of Roberts Lake, Doris North Project, 2012

Date (dd/mm/yy)	Site	Pass No.	Effort (s)	Species	Catch
8-Jul-12	E14	1	287	AC	2
8-Jul-12	E14	2	253	AC	1
8-Jul-12	E14	3	277	-	0
8-Jul-12	E09 - DS	1	322	-	0
8-Jul-12	E09 - DS	2	298	-	0
8-Jul-12	E09 - DS	3	310	-	0
8-Jul-12	E09 - M	1	288	-	0
8-Jul-12	E09 - M	2	394	-	0
8-Jul-12	E09 - M	3	355	-	0
8-Jul-12	E09 - US	1	281	-	0
8-Jul-12	E09 - US	2	274	-	0
8-Jul-12	E09 - US	3	252	-	0
20-Jul-12	E09 - DS	1	215	-	0
20-Jul-12	E09 - DS	2	209	-	0
20-Jul-12	E09 - DS	3	210	-	0
21-Jul-12	E09 - M	1	196	AC	1
21-Jul-12	E09 - M	2	215	-	0
21-Jul-12	E09 - M	3	189	-	0
21-Jul-12	E09 - US	1	188	-	0
21-Jul-12	E09 - US	2	192	-	0
21-Jul-12	E09 - US	3	179	-	0
22-Jul-12	E14	1	198	LT	2
22-Jul-12	E14	2	205	-	0
22-Jul-12	E14	3	189	-	0
5-Aug-12	E09 - DS	1	200	AC	1
5-Aug-12	E09 - DS	2	354	-	0
5-Aug-12	E09 - M	1	357	AC	1
5-Aug-12	E09 - M	2	428	AC	1
5-Aug-12	E09 - M	3	364	-	0
5-Aug-12	E09 - US	1	177	-	0
5-Aug-12	E09 - US	2	131	-	0
5-Aug-12	E14	1	508	AC	3
5-Aug-12	E14	1	508	NSB	2
5-Aug-12	E14	2	494	AC	2
5-Aug-12	E14	3	373	NSB	1

Species Code: AC = Arctic char, LT = lake trout, NSB = ninespine stickleback

Dashes indicate not applicable

Appendix 7

Biological and Tagging Data from Fish Fences in Roberts Outflow, Doris North Project, 2012

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Appendix 7. Biological and Tagging Data from Fish Fences in Roberts Outflow, Doris North Project, 2012

Date (dd/mm/yy)	Time (24 hr clock)	Box Location (U/L)	Fish Direction (U/D)	Water Temp (˚C)	Unique Sample No.	Species Code	Fork Length (mm)	Weight (g)	Condition (K)	Age (years)	Mortality (Y/N)	Recap (Y/N)	PIT Tag No.	Floy Tag No.	PIT Tag Year	Floy Tag Year
29-Jun-12	15:00	L	U	4.8	1	AC	660	2,560	0.89	10	N	Y	985120031573506	-	2007	-
29-Jun-12	15:00	L	D	4.8	2	AC	295	188	0.73	-	N	N	900026000062713	-	2012	-
29-Jun-12	15:00	L	D	4.8	3	AC	281	167	0.75	5	N	N	900026000062721	-	2012	-
29-Jun-12	15:00	L	D	4.8	4	AC	257	128	0.75	-	N	N	900026000062830	-	2012	-
29-Jun-12	15:00	L	D	4.8	5	AC	316	260	0.82	5	N	N	900026000062720	-	2012	-
29-Jun-12	15:00	L	D	4.8	6	AC	368	376	0.75	-	N	N	900026000062692	-	2012	-
29-Jun-12	15:00	L	D	4.8	7	AC	292	185	0.74	-	Y	N	900026000062829	-	2012	-
29-Jun-12	15:00	L	D	4.8	8	AC	294	166	0.65	-	N	N	900026000062747	-	2012	-
29-Jun-12	15:00	L	D	4.8	9	AC	266	154	0.82	-	N	N	900026000062820	-	2012	-
29-Jun-12	15:00	L	D	4.8	10	AC	253	123	0.76	-	Y	N	900026000062684	-	2012	-
29-Jun-12	15:00	L	D	4.8	11	LT	530	3,400	2.28	-	N	Y	965000000089762	Y-RL10-0535	2010	2010
29-Jun-12	15:00	L	D	4.8	12	AC	680	5,410	1.72	11	N	N	900026000062708	-	2012	-
29-Jun-12	15:00	L	D	4.8	13	AC	313	230	0.75	-	Y	Y	900026000062772	-	2012	-
29-Jun-12	15:00	L	D	4.8	14	AC	390	420	0.71	-	N	N	965000000110495	-	2012	-
29-Jun-12	15:00	L	D	4.8	15	AC	269	135	0.69	-	N	Y	900026000062672	Y-2011-0081	2012	2011
30-Jun-12	9:00	L	D	4.7	16	AC	262	155	0.86	-	Y	N	965000000067995	-	2012	-
30-Jun-12	9:00	L	D	4.7	17	AC	364	376	0.78	6	Y	N	900026000062795	-	2012	-
30-Jun-12	9:00	L	D	4.7	18	AC	263	145	0.80	-	N	N	900026000062750	-	2012	-
30-Jun-12	9:00	L	D	4.7	19	AC	759	-	-	11	N	N	900026000062637	-	2012	-
30-Jun-12	9:00	L	D	4.7	20	AC	290	208	0.85	-	N	N	900026000062797	-	2012	-
30-Jun-12	9:00	L	D	4.7	21	AC	287	196	0.83	-	N	N	900026000062824	-	2012	-
30-Jun-12	9:00	L	D	4.7	22	AC	336	294	0.78	4	N	N	900026000062807	-	2012	-
30-Jun-12	9:00	L	D	4.7	23	AC	293	200	0.80	-	N	N	900026000062735	-	2012	-
30-Jun-12	9:00	L	D	4.7	24	AC	272	177	0.88	-	N	N	900026000062734	-	2012	-
30-Jun-12	9:00	L	D	4.7	25	AC	284	200	0.87	-	N	N	900026000062775	-	2012	-
30-Jun-12	9:00	L	D	4.7	26	AC	241	125	0.89	3	N	N	900026000062761	-	2012	-
30-Jun-12	9:00	L	D	4.7	27	AC	279	178	0.82	-	Y	N	900026000062833	-	2012	-
30-Jun-12	9:00	L	D	4.7	28	AC	325	224	0.65	-	N	N	900026000062743	-	2012	-
30-Jun-12	9:00	L	D	4.7	29	AC	270	178	0.90	-	N	N	900026000062645	-	2012	-
30-Jun-12	9:00	L	D	4.7	30	AC	353	352	0.80	4	N	N	965000000071156	-	2012	-
30-Jun-12	9:00	L	D	4.7	31	AC	388	465	0.80	5	N	N	900026000062744	-	2012	-
30-Jun-12	9:00	L	D	4.7	32	AC	289	204	0.85	4	N	N	900026000062774	-	2012	-
30-Jun-12	9:00	L	D	4.7	33	AC	253	171	1.06	-	N	N	900026000062754	-	2012	-
30-Jun-12	9:00	L	D	4.7	34	AC	385	516	0.90	6	N	N	900026000062752	-	2012	-
30-Jun-12	9:00	L	D	4.7	35	AC	294	256	1.01	-	N	N	900026000062802	-	2012	-
30-Jun-12	9:00	L	D	4.7	36	AC	293	224	0.89	-	N	N	900026000062688	-	2012	-
30-Jun-12	9:00	L	D	4.7	37	AC	378	440	0.81	-	N	Y	965000000110495	-	2012	-
30-Jun-12	9:00	L	D	4.7	38	AC	351	346	0.80	5	N	N	900026000062787	-	2012	-
30-Jun-12	9:00	L	D	4.7	39	AC	337	310	0.81	7	N	N	900026000062666	-	2012	-
30-Jun-12	9:00	L	D	4.7	40	AC	323	259	0.77	3	N	N	965000000072889	-	2012	-
30-Jun-12	9:00	L	D	4.7	41	AC	-	-	-	-	N	Y	900026000062666	-	2012	-
30-Jun-12	9:00	L	D	4.7	42	AC	247	119	0.79	-	N	N	900026000062682	-	2012	-
30-Jun-12	9:00	L	D	4.7	43	AC	271	175	0.88	-	N	Y	900026000062734	-	2012	-
1-Jul-12	9:00	L	D	4.9	44	AC	228	102	0.86	-	N	N	900026000062790	-	2012	-
1-Jul-12	9:00	L	D	4.9	45	AC	324	320	0.94	-	N	N	965000000002381	-	2012	-
1-Jul-12	9:00	L	D	4.9	46	AC	260	154	0.88	-	N	N	900026000062804	-	2012	-
1-Jul-12	9:00	L	D	4.9	47	AC	351	346	0.80	-	Y	Y	900026000062787	-	2012	-
1-Jul-12	9:00	L	D	4.9	48	AC	263	145	0.80	-	N	Y	900026000062750	-	2012	-
1-Jul-12	9:00	L	D	4.9	49	AC	287	196	0.83	-	N	Y	900026000062824	-	2012	-
1-Jul-12	9:00	L	D	4.9	50	AC	190	50	0.73	3	N	N	900026000062746	-	2012	-
1-Jul-12	9:00	L	D	4.9	51	AC	209	74	0.81	-	N	N	965000000069951	-	2012	-
1-Jul-12	15:00	L	D	4.9	52	LT	465	1,030	1.02	-	N	N	900026000062756	-	2012	-
1-Jul-12	15:00	L	D	4.9	53	AC	362	396	0.83	-	Y	N	900026000062642	-	2012	-
1-Jul-12	15:00	L	D	4.9	54	AC	270	191	0.97	4	N	N	900026000062791	-	2012	-
1-Jul-12	15:00	L	D	4.9	55	AC	229	90	0.75	-	N	N	900026000062814	-	2012	-
1-Jul-12	15:00	L	D	4.9	56	AC	340	357	0.91	6	N	N	900026000062827	-	2012	-
1-Jul-12	15:00	L	D	4.9	57	AC	-	-	-	-	N	Y	900026000062790	-	2012	-
1-Jul-12	15:00	L	D	4.9	58	AC	310	279	0.94	5	N	N	900026000062718	-	2012	-
1-Jul-12	15:00	L	D	4.9	59	AC	235	96	0.74	-	N	N	900026000062819	-	2012	-
1-Jul-12	15:00	L	D	4.9	60	AC	262	150	0.83	4	N	N	900026000062707	-	2012	-
1-Jul-12	15:00	L	D	4.9	61	AC	258	132	0.77	-	N	N	900026000062703	-	2012	-
2-Jul-12	8:30	L	D	5.5	62	LT	638	2,301	0.89	-	N	Y	900026000062829	-	2012	-
2-Jul-12	8:30	L	U	5.5	63	AC	717	-	-	10	N	N	900026000062817	-	2012	-
2-Jul-12	8:30	L	U	5.5	64	AC	757	-	-	-	N	Y	965000000072209	Y-RL10-0488	2010	2010
2-Jul-12	8:30	L	D	5.5	65	AC	236	109	0.83	-	N	N	965000000071547	-	2012	-
2-Jul-12	8:30	L	D	5.5	66	AC	245	111	0.75	-	N	N	900026000062650	-	2012	-
2-Jul-12	8:30	L	D	5.5	67	AC	240	101	0.73	-	N	N	900026000062742	-	2012	-
2-Jul-12	8:30	L	D	5.5	68	AC	-	-	-	-	N	Y	965000000071547	-	2012	-
2-Jul-12	8:30	L	D	5.5	69	AC	235	95	0.73	-	N	N	900026000062778	-	2012	-
2-Jul-12	8:30	L	D	5.5	70	AC	248	121	0.79	-	N	N	900026000062834	-	2012	-
2-Jul-12	8:30	L	D	5.5	71	AC	205	74	0.86	-	N	N	900026000062702	-	2012	-
2-Jul-12	8:30	L	D	5.5	72	AC	-	-	-	6	Y	Y	965000000002381	-	2012	-
2-Jul-12	8:30	L	D	5.5	73	AC	750	-	-	13	N	Y	985153000021065	G-4874	2007	2007
2-Jul-12	8:30	L	D	5.5	74	AC	232	101	0.81	-	N	N	900026000062769	-	2012	-
2-Jul-12	8:30	L	D	5.5	75	LT	786	-	-	-	N	Y	900026000062642	-	2012	-
2-Jul-12	8:30	L	D	5.5	76	AC	253	110	0.68	-	N	N	900026000062784	-	2012	-
2-Jul-12	8:30	L	D	5.5	77	AC	224	89	0.79	-	N	N	900026000062748	-	2012	-
2-Jul-12	8:30	L	D	5.5	78	AC	398	460	0.73	6	N	N	900026000062723	-	2012	-
2-Jul-12	8:30	L	D	5.5	79	AC	110	8	0.60	2	N	N	900026000062686	-	2012	-
2-Jul-12	8:30	L	D	5.5	80	LT	786	-	-	-	N	Y	900026000062795	-	2012	-
2-Jul-12	8:30	L	D	5.5	80	LT	786	-	-	-	N	Y	900026000062833	-	2012	-
2-Jul-12	8:30	L	D	5.5	81	AC	656	-	-	-	N	Y	965000000072749	Y-RL10-0549	2010	2010
2-Jul-12	8:30	L	D	5.5	82	LT	575	1,642	0.86	-	N	N	900026000062695	-	2012	-
2-Jul-12	8:30	L	D	5.5	83	AC	671	-	-	9	N	N	900026000062715	-	2012	-
2-Jul-12	8:30	L	D	5.5	84	AC	280	155	0.71	-	N	N	965000000071868	-	2012	-
2-Jul-12	8:30	L	D	5.5	85	AC	280	168	0.77	-	N	Y	900026000062775	-	2012	-
2-Jul-12	8:30	L	D	5.5	86	AC	226	-	-		N	N	900026000062638	-	2012	-
2-Jul-12	8:30	L	D	5.5	87	AC	224	90	0.80		N	N	900026000062788	-	2012	-
2-Jul-12	8:30	L	D	5.5	88	AC	-	-	-		N	Y	900026000062672	-	2012	-
2-Jul-12	8:30	L	D	5.5	89	AC	205	74	0.86		N	Y	900026000062702	-	2012	-
2-Jul-12	8:30	L	D	5.5	90	AC	191	47	0.67		N	N	900026000062826	-	2012	-
2-Jul-12	8:30	L	D	5.5	91	AC	190	57	0.83		N	N	900026000062798	-	2012	-
3-Jul-12	8:30	L	D	5.6	92	AC	267	139	0.73		N	N	965000000071564	-	2012	-
3-Jul-12	8:30	L	D	5.6	93	AC	225	92	0.81		N	N	965000000070539	-	2012	-
3-Jul-12	8:30	L	D	5.6	94	AC	249	123	0.80	4	N	N	965000000072955	-	2012	-
3-Jul-12	8:30	L	D	5.6	95	AC	237	109	0.82		N	N	900026000062823	-	2012	-
3-Jul-12	8:30	L	D	5.6	96	AC	344	341	0.84	6	N	N	965000000070240	-	2012	-
3-Jul-12	8:30	L	D	5.6	97	AC	-	-	-		N	Y	900026000062797	-	2012	-
3-Jul-12	8:30	L	D	5.6	98	AC	288	212	0.89		N	N	900026000062646	-	2012	-

Species Code: AC = Arctic char, LT = lake trout, LW = lake whitefish, RW = round whitefish, CISC = least cisco, SC = saffron cod

Box Location: L = Lower, U = Upper

Fish Direction: D = Downstream, U = Upstream

Y = yes, N = no

Dashes indicate not applicable

Appendix 7. Biological and Tagging Data from Fish Fences in Roberts Outflow, Doris North Project, 2012

Date (dd/mm/yy)	Time (24 hr clock)	Box Location (U/L)	Fish Direction (U/D)	Water Temp (˚C)	Unique Sample No.	Species Code	Fork Length (mm)	Weight (g)	Condition (K)	Age (years)	Mortality (Y/N)	Recap (Y/N)	PIT Tag No.	Floy Tag No.	PIT Tag Year	Floy Tag Year
3-Jul-12	8:30	L	D	5.6	99	AC	364	357	0.74		N	N	900026000062677	-	2012	-
3-Jul-12	8:30	L	D	5.6	100	AC	-	-	-		N	Y	900026000062804	-	2012	-
3-Jul-12	8:30	L	D	5.6	101	AC	-	-	-		N	Y	965000000067995	-	2012	-
3-Jul-12	8:30	L	D	5.6	102	AC	244	119	0.82		N	N	965000000072595	-	2012	-
3-Jul-12	8:30	L	D	5.6	103	AC	525	1,140	0.79	6	N	N	900026000062772	-	2012	-
3-Jul-12	8:30	L	D	5.6	104	AC	240	114	0.82		N	N	900026000062799	-	2012	-
3-Jul-12	8:30	L	D	5.6	105	AC	169	42	0.87	4	N	N	900026000062822	-	2012	-
3-Jul-12	8:30	L	D	5.6	106	AC	268	153	0.79		N	N	900026000062714	-	2012	-
3-Jul-12	8:30	L	D	5.6	107	AC	-	-	-		N	Y	965000000072955	-	2012	-
3-Jul-12	8:30	L	D	5.6	108	AC	219	63	0.60		N	N	900026000062717	-	2012	-
3-Jul-12	8:30	L	D	5.6	109	AC	-	-	-		Y	Y	900026000062788	-	2012	-
3-Jul-12	8:30	L	D	5.6	110	AC	355	362	0.81	6	N	N	900026000062644	-	2012	-
3-Jul-12	8:30	L	D	5.6	111	AC	199	61	0.77		N	N	900026000062771	-	2012	-
3-Jul-12	8:30	L	D	5.6	112	AC	190	62	0.90	3	N	N	965000000090060	-	2012	-
3-Jul-12	8:30	L	D	5.6	113	LT	690	-	-		N	N	965000000070141	-	2012	-
3-Jul-12	8:30	L	D	5.6	114	LT	680	-	-		N	Y	-	NO-0908	-	-
4-Jul-12	9:00	L	D	5.6	115	AC	245	-	-		N	Y	965000000072595	-	2012	-
4-Jul-12	9:00	L	D	5.6	116	AC	308	260	0.89	6	N	N	965000000000919	-	2012	-
4-Jul-12	9:00	L	D	5.6	117	AC	325	312	0.91		N	N	965000000072273	-	2012	-
4-Jul-12	9:00	L	D	5.6	118	AC	255	138	0.83		N	N	965000000068810	-	2012	-
4-Jul-12	9:00	L	D	5.6	119	AC	189	44	0.65	3	N	N	965000000068640	-	2012	-
4-Jul-12	9:00	L	U	5.6	120	LT	850	-	-		N	Y	900026000062787	G-4636	2012	2006
4-Jul-12	9:00	L	U	5.6	120	LT	850	-	-		N	Y	965000000087398	G-4636	2010	2006
4-Jul-12	9:00	L	U	5.6	120	LT	850	-	-		N	Y	985153000021436	-	2006	-
4-Jul-12	9:00	L	D	5.6	121	AC	250	150	0.96		N	N	965000000073016	-	2012	-
4-Jul-12	9:00	L	D	5.6	122	AC	295	-	-		N	Y	900026000062688	-	2012	-
4-Jul-12	9:00	L	D	5.6	123	AC	250	-	-		N	Y	900026000062784	-	2012	-
4-Jul-12	9:00	L	D	5.6	124	AC	230	94	0.77		N	N	965000000067769	-	2012	-
4-Jul-12	9:00	L	D	5.6	125	AC	279	202	0.93		N	N	965000000004352	-	2012	-
4-Jul-12	9:00	L	D	5.6	126	AC	370	405	0.80		N	N	965000000067885	-	2012	-
4-Jul-12	9:00	L	D	5.6	127	AC	306	270	0.94		N	N	965000000000554	-	2012	-
4-Jul-12	9:00	L	D	5.6	128	AC	122	10	0.55	2	N	N	965000000071296	-	2012	-
4-Jul-12	9:00	L	D	5.6	129	AC	159	30	0.75	3	N	N	965000000069982	-	2012	-
4-Jul-12	9:00	L	D	5.6	130	AC	205	56	0.65		N	N	965000000009338	-	2012	-
4-Jul-12	9:00	L	D	5.6	131	AC	355	-	-		N	Y	900026000062644	-	2012	-
4-Jul-12	9:00	L	D	5.6	132	AC	368	446	0.89	4	N	N	965000000004350	-	2012	-
4-Jul-12	9:00	L	D	5.6	133	AC	209	70	0.77		Y	N	965000000068596	-	2012	-
4-Jul-12	9:00	L	D	5.6	134	AC	230	-	-		N	Y	900026000062769	-	2012	-
4-Jul-12	9:00	L	D	5.6	135	AC	198	59	0.76		N	N	965000000071737	-	2012	-
4-Jul-12	16:00	L	D	5.6	136	AC	289	211	0.87		N	N	965000000072057	-	2012	-
4-Jul-12	16:00	L	D	5.6	137	AC	479	2,101	1.91		N	N	-	-	-	-
4-Jul-12	16:00	L	D	5.6	138	AC	261	130	0.73	4	Y	N	965000000071326	-	2012	-
4-Jul-12	16:00	L	D	5.6	139	AC	292	210	0.84		N	N	965000000069486	-	2012	-
4-Jul-12	16:00	L	D	5.6	140	AC	418	672	0.92		N	N	965000000071330	-	2012	-
4-Jul-12	16:00	L	D	5.6	141	AC	404	620	0.94	6	N	N	965000000069006	-	2012	-
4-Jul-12	16:00	L	D	5.6	142	LT	337	378	0.99		N	N	965000000004915	-	2012	-
4-Jul-12	16:00	L	D	5.6	143	AC	374	496	0.95		N	N	965000000072929	-	2012	-
4-Jul-12	16:00	L	D	5.6	144	AC	245	118	0.80		N	N	965000000068735	-	2012	-
4-Jul-12	16:00	L	D	5.6	145	AC	250	116	0.74		N	N	-	-	-	-
4-Jul-12	16:00	L	D	5.6	146	AC	281	174	0.78		N	N	965000000002021	-	2012	-
4-Jul-12	16:00	L	D	5.6	147	AC	210	78	0.84		N	N	-	-	-	-
5-Jul-12	9:45	L	U	4.8	148	AC	860	-	-	8	N	N	965000000070482	-	2012	-
5-Jul-12	9:45	L	D	4.8	149	AC	785	-	-		N	Y	965000000088512	Y-RL10-0227	2010	2010
5-Jul-12	9:45	L	D	4.8	150	AC	430	661	0.83	10	N	N	965000000068219	-	2012	-
5-Jul-12	9:45	L	D	4.8	151	AC	268	146	0.76		N	N	965000000072666	-	2012	-
5-Jul-12	9:45	L	D	4.8	152	AC	235	-	-		N	Y	900026000062650	-	2012	-
5-Jul-12	9:45	L	D	4.8	153	AC	376	161	0.30		N	N	965000000070613	-	2012	-
5-Jul-12	9:45	L	D	4.8	154	AC	269	143	0.73		Y	N	965000000069470	-	2012	-
5-Jul-12	9:45	L	D	4.8	155	AC	223	95	0.86		N	N	965000000069999	-	2012	-
5-Jul-12	9:45	L	D	4.8	156	AC	235	109	0.84	4	N	N	965000000067884	-	2012	-
5-Jul-12	9:45	L	D	4.8	157	AC	220	81	0.76		N	N	965000000002502	-	2012	-
5-Jul-12	9:45	L	D	4.8	158	AC	210	88	0.95		N	N	-	-	-	-
5-Jul-12	9:45	L	D	4.8	159	AC	279	140	0.64		N	N	965000000004627	-	2012	-
5-Jul-12	9:45	L	D	4.8	160	AC	-	-	-		N	N	965000000068028	-	2012	-
5-Jul-12	9:45	L	D	4.8	161	AC	245	113	0.77		N	N	965000000070568	-	2012	-
5-Jul-12	9:45	L	D	4.8	162	AC	200	-	-		N	Y	900026000062771	-	2012	-
5-Jul-12	9:45	L	D	4.8	163	AC	139	17	0.63	2	N	N	965000000072735	-	2012	-
5-Jul-12	9:45	L	D	4.8	164	AC	444	775	0.89	7	N	N	965000000069197	-	2012	-
5-Jul-12	9:45	L	D	4.8	165	AC	231	114	0.92		N	N	965000000070442	-	2012	-
5-Jul-12	9:45	L	D	4.8	166	AC	241	104	0.74		N	N	965000000067211	-	2012	-
5-Jul-12	9:45	L	D	4.8	167	AC	196	54	0.72		N	N	965000000066797	-	2012	-
5-Jul-12	9:45	L	D	4.8	168	AC	292	192	0.77		N	N	965000000069085	-	2012	-
5-Jul-12	9:45	L	D	4.8	169	AC	244	111	0.76		N	N	965000000000549	-	2012	-
5-Jul-12	9:45	L	D	4.8	170	AC	260	129	0.73		N	N	965000000067794	-	2012	-
5-Jul-12	9:45	L	D	4.8	171	AC	258	126	0.73		N	N	965000000068024	-	2012	-
6-Jul-12	8:30	L	D	6.3	172	AC	245	118	0.80	4	N	N	965000000068778	-	2012	-
6-Jul-12	8:30	L	D	6.3	173	AC	184	46	0.74	3	N	N	965000000070859	-	2012	-
6-Jul-12	8:30	L	D	6.3	174	AC	269	263	1.35	4	N	N	965000000069284	-	2012	-
6-Jul-12	8:30	L	D	6.3	175	AC	245	151	1.03		N	Y	900026000062834	-	2012	-
6-Jul-12	8:30	L	D	6.3	176	AC	190	56	0.82		N	N	965000000072509	-	2012	-
6-Jul-12	8:30	L	D	6.3	177	AC	225	91	0.80		N	N	965000000070353	-	2012	-
6-Jul-12	8:30	L	D	6.3	178	AC	155	28	0.75	3	N	N	965000000069773	-	2012	-
6-Jul-12	8:30	L	D	6.3	179	AC	199	65	0.82		N	N	965000000071182	-	2012	-
6-Jul-12	8:30	L	D	6.3	180	AC	223	88	0.79		N	Y	900026000062638	-	2012	-
6-Jul-12	8:30	L	D	6.3	181	AC	154	28	0.77		N	N	965000000070113	-	2012	-
6-Jul-12	8:30	L	D	6.3	182	AC	211	78	0.83		N	N	965000000002741	-	2012	-
6-Jul-12	8:30	L	D	6.3	183	AC	261	148	0.83		N	N	965000000071449	-	2012	-
6-Jul-12	8:30	L	D	6.3	184	AC	210	76	0.82		Y	N	-	-	-	-
7-Jul-12	11:00	L	U	11.4	185	LT	638	3,200	1.23		N	Y	965000000072352	Y-RL10-0020	2010	2010
7-Jul-12	11:00	L	U	11.4	186	LT	790	5,200	1.05		N	Y	900026000062833	-	2012	-
7-Jul-12	11:00	L	U	11.4	186	LT	790	5,200	1.05		N	Y	965000000071326	-	2012	-
7-Jul-12	11:00	L	U	11.4	187	LT	740	4,500	1.11		N	Y	985120031627753	G-4702	-	2006
7-Jul-12	11:00	L	U	11.4	188	AC	730	5,000	1.29	8	N	N	965000000072433	-	2012	-
7-Jul-12	11:00	L	U	11.4	189	LT	733	4,550	1.16		N	Y	900026000062788	-	2012	-
7-Jul-12	11:00	L	U	11.4	189	LT	733	4,550	1.16		N	Y	965000000069470	-	2012	-
7-Jul-12	11:00	L	U	11.4	190	AC	625	3,250	1.33		N	Y	-	G-4465	-	2005
7-Jul-12	11:00	L	U	11.4	191	LT	581	2,100	1.07		N	Y	900026000062695	-	2012	-
7-Jul-12	11:00	L	U	11.4	192	LT	705	3,950	1.13		N	Y	965000000002381	G-4633	2012	2006
7-Jul-12	11:00	L	U	11.4	193	AC	752	5,200	1.22		N	Y	-	Y-RL10-0306	-	2010

Species Code: AC = Arctic char, LT = lake trout, LW = lake whitefish, RW = round whitefish, CISC = least cisco, SC = saffron cod

Box Location: L = Lower, U = Upper

Fish Direction: D = Downstream, U = Upstream

Y = yes, N = no

Dashes indicate not applicable

Appendix 7. Biological and Tagging Data from Fish Fences in Roberts Outflow, Doris North Project, 2012

Date (dd/mm/yy)	Time (24 hr clock)	Box Location (U/L)	Fish Direction (U/D)	Water Temp (˚C)	Unique Sample No.	Species Code	Fork Length (mm)	Weight (g)	Condition (K)	Age (years)	Mortality (Y/N)	Recap (Y/N)	PIT Tag No.	Floy Tag No.	PIT Tag Year	Floy Tag Year
7-Jul-12	11:00	L	U	11.4	194	AC	765	5,500	1.23	11	N	N	965000000069276	-	2012	-
7-Jul-12	11:00	L	U	11.4	195	AC	795	6,150	1.22		N	Y	985120031603159	-	2007	-
7-Jul-12	11:00	L	U	11.4	196	AC	785	6,850	1.42		N	Y	965000000010226	Y-RL10-0024	2010	2010
7-Jul-12	11:00	L	U	11.4	197	AC	790	4,700	0.95		N	Y	965000000070329	Y-RL10-0023	2010	2010
7-Jul-12	11:00	L	U	11.4	198	LT	840	7,850	1.32		N	Y	985120031578163	-	2006	2006
7-Jul-12	11:00	L	D	11.4	199	AC	238	110	0.82		N	Y	900026000062761	-	2012	-
7-Jul-12	11:00	L	D	11.4	200	AC	141	24	0.86	2	N	N	965000000070921	-	2012	-
7-Jul-12	11:00	L	D	11.4	201	AC	320	260	0.79		N	Y	965000000070844	Y-RL10-0222	-	2010
7-Jul-12	11:00	L	D	11.4	202	AC	355	332	0.74	5	N	N	965000000072959	-	2012	-
7-Jul-12	11:00	L	D	11.4	203	AC	273	190	0.93		N	N	965000000001012	-	2012	-
7-Jul-12	11:00	L	D	11.4	204	AC	248	115	0.75		N	N	965000000071300	-	2012	-
7-Jul-12	14:00	L	D	11.4	205	AC	333	378	1.02	5	N	N	965000000066667	-	2012	-
7-Jul-12	14:00	L	D	11.4	206	AC	138	24	0.91	2	N	N	965000000070249	-	2012	-
7-Jul-12	14:00	L	D	11.4	207	AC	185	50	0.79	3	N	N	965000000067499	-	2012	-
7-Jul-12	14:00	L	D	11.4	208	AC	340	-	-		N	Y	900026000062827	-	2012	-
7-Jul-12	14:00	L	D	11.4	209	AC	200	69	0.86		N	N	965000000067900	-	2012	-
7-Jul-12	14:00	L	D	11.4	210	AC	132	19	0.83	2	N	N	965000000072046	-	2012	-
7-Jul-12	14:00	L	D	11.4	211	AC	240	129	0.93		N	N	965000000067796	-	2012	-
7-Jul-12	14:00	L	D	11.4	212	AC	205	71	0.82		N	N	965000000000550	-	2012	-
7-Jul-12	14:00	L	D	11.4	213	AC	398	570	0.90		N	N	965000000071544	-	2012	-
7-Jul-12	14:00	L	D	11.4	214	AC	395	-	-		N	Y	900026000062723	-	2012	-
8-Jul-12	9:00	L	U	7.3	215	LT	483	1,450	1.29		N	Y	985120031620239	Y-RL10-0780	2005	2010
8-Jul-12	9:00	L	U	7.3	216	LT	730	2,650	0.68		N	Y	-	G-4516	-	2005
8-Jul-12	9:00	L	U	7.3	217	LT	821	6,300	1.14		N	Y	985120031583871	G-4685	2006	2006
8-Jul-12	9:00	L	U	7.3	218	LT	652	3,300	1.19		N	Y	985153000021421	G-4096	2004	2004
8-Jul-12	9:00	L	U	7.3	219	LT	792	5,550	1.12		N	Y	985120031631174	-	2006	-
8-Jul-12	9:00	L	D	7.3	220	AC	212	74	0.78		N	N	965000000070438	-	2012	-
8-Jul-12	9:00	L	D	7.3	221	AC	279	191	0.88		N	N	965000000068891	-	2012	-
9-Jul-12	9:00	L	U	11.6	222	LT	835	7,500	1.29		N	Y	965000000068596	G-4182	2012	2004
9-Jul-12	9:00	L	U	11.6	223	LT	455	1,050	1.11		N	N	965000000067996	-	2012	-
9-Jul-12	9:00	L	U	11.6	224	LT	805	5,000	0.96		N	Y	965000000067202	-	2010	-
9-Jul-12	9:00	L	U	11.6	225	AC	660	4,100	1.43	7	N	N	965000000002863	-	2012	-
9-Jul-12	9:00	L	D	11.6	226	AC	201	61	0.75	4	N	N	965000000072819	-	2012	-
9-Jul-12	9:00	L	D	11.6	227	AC	267	-	-		N	Y	900026000062645	-	2012	-
9-Jul-12	9:00	L	D	11.6	228	AC	360	400	0.86	6	N	N	965000000071281	-	2012	-
9-Jul-12	9:00	L	D	11.6	229	AC	284	-	-		N	Y	965000000071868	-	2012	-
9-Jul-12	9:00	L	D	11.6	230	AC	364	396	0.82	6	N	N	965000000070501	-	2012	-
9-Jul-12	9:00	L	D	11.6	231	AC	232	129	1.03		N	N	965000000068128	-	2012	-
9-Jul-12	9:00	L	D	11.6	232	AC	155	42	1.13	3	N	N	965000000069280	-	2012	-
9-Jul-12	9:00	L	D	11.6	233	AC	280	190	0.87		N	N	965000000004079	-	2012	-
9-Jul-12	9:00	L	D	11.6	234	AC	190	54	0.79	3	N	N	965000000069298	-	2012	-
9-Jul-12	9:00	L	D	11.6	235	AC	253	129	0.80		N	N	965000000069278	-	2012	-
9-Jul-12	9:00	L	D	11.6	236	AC	175	51	0.95	4	N	N	965000000072067	-	2012	-
9-Jul-12	9:00	L	D	11.6	237	AC	341	350	0.88		N	N	965000000003259	-	2012	-
9-Jul-12	9:00	L	D	11.6	238	AC	296	222	0.86		N	N	965000000069606	-	2012	-
9-Jul-12	9:00	L	D	11.6	239	AC	436	750	0.90	7	N	N	965000000070794	-	2012	-
9-Jul-12	9:00	L	D	11.6	240	AC	176	54	0.99	3	Y	N	-	-	-	-
9-Jul-12	9:00	L	D	11.6	241	LW/RW	225	121	1.06		Y	N	-	-	-	-
9-Jul-12	9:00	L	D	11.6	242	AC	400	450	0.70	6	N	N	965000000004492	-	2012	-
9-Jul-12	9:00	L	D	11.6	243	AC	472	700	0.67	8	N	N	965000000000826	-	2012	-
9-Jul-12	9:00	L	D	11.6	244	AC	198	70	0.90		N	N	-	-	-	-
10-Jul-12	15:00	L	U	8.5	245	LT	460	1,100	1.13		N	Y	965000000068115	Y-2011-0046	2011	2011
10-Jul-12	15:00	L	U	8.5	246	LT	807	5,650	1.08		N	Y	985120031554950	Y-RL10-0012	2006	2010
10-Jul-12	15:00	L	U	8.5	247	LT	588	2,150	1.06		N	Y	965000000070179	Y-2011-0029	2011	2011
10-Jul-12	15:00	L	U	8.5	248	LT	500	1,850	1.48		N	Y	965000000067065	Y-RL10-0506	2010	2010
10-Jul-12	15:00	L	D	8.5	249	LT	730	-	-		N	Y	-	G-4516	-	2005
10-Jul-12	15:00	L	D	8.5	250	AC	211	81	0.86		N	N	965000000002504	-	2012	-
10-Jul-12	15:00	L	D	8.5	251	AC	237	121	0.91		N	N	965000000072962	-	2012	-
10-Jul-12	15:00	L	D	8.5	252	AC	226	107	0.93		N	N	965000000068397	-	2012	-
10-Jul-12	15:00	L	D	8.5	253	AC	217	283	2.77		N	N	965000000069980	-	2012	-
10-Jul-12	15:00	L	D	8.5	254	AC	271	156	0.78		N	N	965000000071882	-	2012	-
10-Jul-12	15:00	L	D	8.5	255	AC	233	100	0.79	4	N	N	965000000066805	-	2012	-
10-Jul-12	15:00	L	D	8.5	256	LT	633	2,550	1.01		N	Y	900026000062684	-	2012	-
11-Jul-12	16:00	L	U	8.0	257	LT	596	2,650	1.25		N	Y	965000000069326	G-4724	-	2006
11-Jul-12	16:00	L	U	8.0	258	LT	600	2,400	1.11		N	Y	985153000021420	G-4063	2004	2004
11-Jul-12	16:00	L	U	8.0	259	LT	425	775	1.01		N	Y	965000000076952	Y-RL10-0405	2010	2010
11-Jul-12	16:00	L	U	8.0	260	AC	679	3,350	1.07		N	Y	900026000062651	Y-2011-0127	2011	2011
11-Jul-12	16:00	L	U	8.0	261	AC	653	3,450	1.24		N	N	900026000149535	-	2012	-
11-Jul-12	16:00	L	U	8.0	262	LT	655	3,050	1.09		N	Y	965000000067995	-	2012	-
11-Jul-12	16:00	L	D	8.0	263	AC	159	37	0.92	3	N	N	900026000149505	-	2012	-
12-Jul-12	10:30	L	U	9.2	264	LT	467	1,200	1.18		N	Y	900026000062801	Y-2011-0058	2011	2011
12-Jul-12	10:30	L	U	9.2	265	LT	480	1,400	1.27		N	N	900026000149583	-	2012	-
12-Jul-12	10:30	L	U	9.2	266	LT	455	1,150	1.22		N	Y	900026000062656	Y-2011-0064	2011	2011
12-Jul-12	10:30	L	U	9.2	267	LT	639	3,150	1.21		N	Y	985153000021482	-	2007	-
12-Jul-12	10:30	L	U	9.2	268	AC	860	7,300	1.15		N	Y	965000000071456	-	-	-
12-Jul-12	10:30	L	U	9.2	269	LT	592	2,750	1.33		N	Y	985153000021489	G-3983	2007	2007
12-Jul-12	10:30	L	U	9.2	270	LT	580	2,300	1.18		N	Y	965000000067520	G-3809	2010	2007
12-Jul-12	10:30	L	U	9.2	271	LT	815	6,400	1.18		N	Y	965000000070952	Y-2011-0015	2011	2011
12-Jul-12	10:30	L	U	9.2	272	AC	715	4,550	1.24	8	N	N	900026000149566	-	2012	-
12-Jul-12	10:30	L	U	9.2	273	LT	432	1,000	1.24		N	Y	900026000062657	Y-2011-0059	2011	2011
12-Jul-12	10:30	L	U	9.2	274	LT	503	1,600	1.26		N	Y	965000000089654	Y-RL10-0403	2010	2010
12-Jul-12	10:30	L	D	9.2	275	AC	226	85	0.74		N	N	900026000149516	-	2012	-
12-Jul-12	10:30	L	D	9.2	276	AC	210	72	0.78		N	N	900026000149563	-	2012	-
12-Jul-12	10:30	L	D	9.2	277	AC	255	144	0.87		N	N	900026000149513	-	2012	-
12-Jul-12	10:30	L	D	9.2	278	AC	210	83	0.90	4	N	N	900026000149545	-	2012	-
12-Jul-12	10:30	L	D	9.2	279	AC	198	-	-		N	Y	965000000090060	-	2012	-
12-Jul-12	10:30	L	D	9.2	280	AC	220	107	1.00		N	N	900026000149500	-	2012	-
12-Jul-12	10:30	L	D	9.2	281	AC	200	74	0.93		N	N	900026000149522	-	2012	-
12-Jul-12	10:30	L	D	9.2	282	AC	206	65	0.74		N	N	900026000149573	-	2012	-
12-Jul-12	10:30	L	D	9.2	283	AC	141	23	0.82	3	N	N	900026000149570	-	2012	-
12-Jul-12	10:30	L	D	9.2	284	AC	125	17	0.87	2	N	N	900026000149520	-	2012	-
13-Jul-12	8:00	L	U	11.6	285	LT	525	1,650	1.14		N	Y	965000000069736	Y-RL10-0057	2010	2010
13-Jul-12	8:00	L	U	11.6	286	LT	460	1,300	1.34		N	Y	965000000067798	Y-RL10-0310	2010	2010
13-Jul-12	8:00	L	U	11.6	287	LT	535	2,250	1.47		N	Y	9.85153E+14	Y-RL10-0344	-	2010
14-Jul-12	10:00	L	U	9.2	288	LT	759	4,300	0.98		N	Y	985153000021209	G-4721	2005	2006
14-Jul-12	10:00	L	U	9.2	289	LT	545	1,800	1.11		N	Y	965000000071659	Y-RL10-0576	2010	2010
14-Jul-12	10:00	L	U	9.2	290	LT	561	1,900	1.08		N	Y	965000000068804	Y-RL10-0510	2010	2010
14-Jul-12	10:00	L	U	9.2	291	AC	689	4,500	1.38	10	N	N	900026000149547	-	2012	-
14-Jul-12	10:00	L	U	9.2	292	LT	475	1,500	1.40		N	Y	985120031605864	Y-RL10-0447	2007	2010

Species Code: AC = Arctic char, LT = lake trout, LW = lake whitefish, RW = round whitefish, CISC = least cisco, SC = saffron cod

Box Location: L = Lower, U = Upper

Fish Direction: D = Downstream, U = Upstream

Y = yes, N = no

Dashes indicate not applicable

Appendix 7. Biological and Tagging Data from Fish Fences in Roberts Outflow, Doris North Project, 2012

Date (dd/mm/yy)	Time (24 hr clock)	Box Location (U/L)	Fish Direction (U/D)	Water Temp (˚C)	Unique Sample No.	Species Code	Fork Length (mm)	Weight (g)	Condition (K)	Age (years)	Mortality (Y/N)	Recap (Y/N)	PIT Tag No.	Floy Tag No.	PIT Tag Year	Floy Tag Year
14-Jul-12	10:00	L	D	9.2	293	AC	335	354	0.94		Y	N	-	-	-	-
14-Jul-12	10:00	L	D	9.2	294	LT	350	472	1.10		N	N	900026000149581	-	2012	-
14-Jul-12	10:00	L	D	9.2	295	AC	285	182	0.79		N	Y	900026000062744	-	2012	-
14-Jul-12	10:00	L	D	9.2	296	AC	179	43	0.75	4	N	N	900026000149539	-	2012	-
14-Jul-12	10:00	L	D	9.2	297	AC	178	51	0.90	3	N	N	900026000149509	-	2012	-
14-Jul-12	10:00	L	D	9.2	298	AC	282	190	0.85		N	N	900026000149501	-	2012	-
14-Jul-12	10:00	L	D	9.2	299	AC	209	68	0.74		N	N	900026000149565	-	2012	-
14-Jul-12	10:00	L	D	9.2	300	AC	218	79	0.76		N	N	900026000149502	-	2012	-
14-Jul-12	10:00	L	D	9.2	301	AC	239	102	0.75		N	Y	900026000062823	-	2012	-
14-Jul-12	10:00	L	D	9.2	302	AC	208	72	0.80		Y	N	-	-	-	-
14-Jul-12	10:00	L	D	9.2	303	AC	214	93	0.95		Y	N	-	-	-	-
14-Jul-12	10:00	L	D	9.2	304	AC	274	172	0.84		N	N	900026000149510	-	2012	-
14-Jul-12	10:00	L	D	9.2	305	AC	262	133	0.74		N	N	900026000149504	-	2012	-
14-Jul-12	10:00	L	D	9.2	306	AC	215	80	0.80		N	N	900026000149508	-	2012	-
14-Jul-12	10:00	L	D	9.2	307	AC	184	39	0.63	3	N	N	900026000149574	-	2012	-
14-Jul-12	10:00	L	D	9.2	308	LT	252	134	0.84		N	N	900026000149586	-	2012	-
14-Jul-12	10:00	L	D	9.2	309	AC	265	143	0.77		N	N	900026000149589	-	2012	-
14-Jul-12	10:00	L	D	9.2	310	LT	260	147	0.84		Y	N	900026000149543	-	2012	-
14-Jul-12	10:00	L	D	9.2	311	AC	226	82	0.71		N	N	900026000149555	-	2012	-
14-Jul-12	10:00	L	D	9.2	312	AC	203	54	0.65	3	N	N	900026000149552	-	2012	-
14-Jul-12	10:00	L	D	9.2	313	LT	282	186	0.83		N	N	900026000149496	-	2012	-
14-Jul-12	10:00	L	D	9.2	314	AC	205	75	0.87		N	N	900026000149591	-	2012	-
14-Jul-12	10:00	L	D	9.2	315	AC	214	74	0.76		N	N	900026000149564	-	2012	-
14-Jul-12	10:00	L	D	9.2	316	AC	402	610	0.94	6	N	N	900026000149511	-	2012	-
14-Jul-12	10:00	L	D	9.2	317	AC	404	580	0.88		N	N	900026000149579	-	2012	-
14-Jul-12	10:00	L	D	9.2	318	LT	344	310	0.76		N	N	900026000149538	-	2012	-
14-Jul-12	10:00	L	D	9.2	319	AC	217	66	0.65	4	N	N	900026000149549	-	2012	-
14-Jul-12	10:00	L	D	9.2	320	AC	222	87	0.80		N	N	900026000149506	-	2012	-
14-Jul-12	10:00	L	U	9.2	321	LT	895	7,700	1.07		N	N	900026000149544	G-4343	2012	2005
14-Jul-12	10:00	L	U	9.2	322	AC	282	192	0.86		N	Y	900026000149501	-	2012	-
15-Jul-12	9:00	L	U	13.9	323	LT	509	1,120	0.85		N	N	900026000149526	-	2012	-
15-Jul-12	9:00	L	U	13.9	324	LT	468	1,200	1.17		N	Y	900026000149548	Y-2011-0032	2012	2011
15-Jul-12	9:00	L	U	13.9	325	LT	522	1,650	1.16		N	Y	900026000149499	Y-2011-0037	-	2011
15-Jul-12	9:00	L	D	13.9	326	AC	336	390	1.03		N	N	900026000149533	-	2012	-
15-Jul-12	9:00	L	D	13.9	327	AC	218	77	0.74		N	N	900026000149532	-	2012	-
15-Jul-12	9:00	L	D	13.9	328	AC	219	82	0.78		N	N	900026000149525	-	2012	-
15-Jul-12	9:00	L	D	13.9	329	AC	168	35	0.74	3	N	N	900026000149559	-	2012	-
15-Jul-12	9:00	L	D	13.9	330	AC	672	2,200	0.72	8	N	Y	965000000068732	Y-RL10-0443	2010	2010
15-Jul-12	9:00	L	D	13.9	331	AC	534	1,390	0.91	8	N	N	900026000149578	-	2012	-
15-Jul-12	9:00	L	D	13.9	332	AC	205	63	0.73		N	N	900026000149582	-	2012	-
15-Jul-12	9:00	L	D	13.9	333	AC	279	171	0.79		N	N	900026000149580	-	2012	-
15-Jul-12	9:00	L	D	13.9	334	AC	405	710	1.07	6	N	N	900026000149588	-	2012	-
15-Jul-12	9:00	L	D	13.9	335	AC	394	580	0.95	7	N	N	900026000149514	-	2012	-
15-Jul-12	9:00	L	D	13.9	336	AC	260	136	0.77		N	N	900026000149576	-	2012	-
15-Jul-12	9:00	L	D	13.9	337	AC	284	161	0.70		N	N	900026000149523	-	2012	-
15-Jul-12	9:00	L	D	13.9	338	AC	315	355	1.14	5	N	N	900026000149584	-	2012	-
15-Jul-12	9:00	L	D	13.9	339	AC	292	210	0.84	3	N	N	900026000149507	-	2012	-
15-Jul-12	9:00	L	D	13.9	340	AC	321	195	0.59		N	N	900026000149517	-	2012	-
15-Jul-12	9:00	L	D	13.9	341	AC	211	82	0.87		N	N	900026000149542	-	2012	-
15-Jul-12	9:00	L	D	13.9	342	AC	330	510	1.42		N	N	900026000149558	-	2012	-
15-Jul-12	9:00	L	D	13.9	343	AC	236	78	0.59		N	N	900026000149498	-	2012	-
15-Jul-12	9:00	L	D	13.9	344	AC	295	320	1.25		N	N	900026000149575	-	2012	-
15-Jul-12	9:00	L	D	13.9	346	AC	274	310	1.51		N	Y	900026000062791	-	2012	-
15-Jul-12	9:00	L	D	13.9	347	AC	212	84	0.88		N	N	900026000149557	-	2012	-
15-Jul-12	9:00	L	D	13.9	348	LT	274	290	1.41		Y	N	900026000149536	-	2012	-
15-Jul-12	9:00	L	D	13.9	349	AC	285	290	1.25		N	N	900026000149541	-	2012	-
15-Jul-12	9:00	L	D	13.9	350	AC	227	238	2.03		N	Y	900026000062778	-	2012	-
15-Jul-12	9:00	L	D	13.9	351	AC	244	225	1.55		N	N	900026000149524	-	2012	-
15-Jul-12	9:00	L	D	13.9	352	AC	235	200	1.54		N	N	900026000149551	-	2012	-
15-Jul-12	9:00	L	D	13.9	353	LT	228	195	1.65		N	N	900026000149561	-	2012	-
15-Jul-12	9:00	L	D	13.9	354	AC	227	98	0.84		N	N	900026000149527	-	2012	-
15-Jul-12	9:00	L	D	13.9	355	LT	268	200	1.04		N	N	900026000149571	-	2012	-
15-Jul-12	9:00	L	D	13.9	356	LT	165	36	0.80		N	N	900026000149592	-	2012	-
15-Jul-12	9:00	L	D	13.9	357	AC	125	73	3.74	3	N	N	900026000149528	-	2012	-
15-Jul-12	9:00	L	D	13.9	358	LT	178	40	0.71		Y	Y	900026000149567	-	2012	-
15-Jul-12	9:00	L	D	13.9	359	LT	119	12	0.71		N	N	900026000149519	-	2012	-
15-Jul-12	9:00	L	D	13.9	360	AC	265	125	0.67		N	Y	900026000062703	-	2012	-
15-Jul-12	9:00	L	D	13.9	361	AC	278	162	0.75		N	N	900026000149531	-	2012	-
15-Jul-12	9:00	L	D	13.9	362	AC	251	134	0.85		N	N	900026000149529	-	2012	-
15-Jul-12	9:00	L	D	13.9	363	LT	289	250	1.04		Y	N	900026000149534	-	2012	-
15-Jul-12	9:00	L	D	13.9	364	LT	242	121	0.85		Y	N	900026000149515	-	2012	-
15-Jul-12	9:00	L	D	13.9	365	AC	221	96	0.89		N	N	900026000149572	-	2012	-
15-Jul-12	9:00	L	D	13.9	366	AC	239	119	0.87		N	Y	965000000072962	-	2012	-
15-Jul-12	9:00	L	D	13.9	367	AC	218	87	0.84		N	N	900026000149550	-	2012	-
15-Jul-12	9:00	L	D	13.9	368	LT	580	2,200	1.13		N	N	900026000149512	-	2012	-
15-Jul-12	15:30	L	U	13.9	369	LT	495	1,480	1.22		Y?	Y	965000000077102	Y-RL10-0028	2010	2010
15-Jul-12	15:30	L	U	13.9	370	LT	595	2,500	1.19		N	Y	900026000149554	G-5055	2012	UNK
15-Jul-12	15:30	L	U	13.9	372	LT	465	1,220	1.21		N	Y	900026000062732	Y-2011-0097	2011	2011
16-Jul-12	9:40	L	U	14.8	373	LT	820	5,200	0.94		N	Y	965000000069905	Y-RL10-0308	2010	2010
16-Jul-12	9:40	L	U	14.8	374	LT	455	1,250	1.33		N	N	900026000149562	-	2012	-
16-Jul-12	9:40	L	U	14.8	375	LT	540	2,180	1.38		N	Y	965000000068398	Y-RL10-0487	2010	2010
16-Jul-12	9:40	L	U	14.8	376	LT	626	2,650	1.08		N	Y	900026000149546	G-3995	2007	2007
16-Jul-12	9:40	L	U	14.8	377	LT	498	1,510	1.22		N	Y	965000000070661	Y-2011-0039	2011	2011
16-Jul-12	9:40	L	U	14.8	378	AC	821	6,450	1.17	12	N	N	900026000149577	-	2012	-
16-Jul-12	9:40	L	U	14.8	379	AC	628	3,290	1.33	8	N	N	900026000149568	-	2012	-
16-Jul-12	9:40	L	U	14.8	380	LT	637	2,500	0.97		N	Y	965000000069230	-	2010	-
16-Jul-12	9:40	L	U	14.8	381	LT	476	1,350	1.25		N	Y	900026000062767	Y-2011-0073	2011	2011
16-Jul-12	9:40	L	U	14.8	382	LT	495	1,650	1.36		N	Y	965000000068822	Y-RL10-0838	2010	2010
16-Jul-12	9:40	L	U	14.8	383	LT	460	1,200	1.23		N	Y	965000000072235	Y-RL10-0840	2010	2010
16-Jul-12	9:40	L	D	14.8	384	AC	682	3,250	1.02		N	Y	900026000149568	-	2012	-
16-Jul-12	9:40	L	D	14.8	385	AC	184	56	0.90	3	Y	N	900026000149569	-	2012	-
16-Jul-12	9:40	L	D	14.8	386	AC	242	110	0.78		Y	Y	900026000062754	-	2012	-
16-Jul-12	9:40	L	D	14.8	387	AC	225	91	0.80		N	N	900026000149587	-	2012	-
16-Jul-12	9:40	L	D	14.8	388	LT	215	73	0.73		N	N	900026000149556	-	2012	-
16-Jul-12	9:40	L	U	14.8	389	LT	-	-	-		N	Y	900026000149567	Y-2011-0086	-	2011
16-Jul-12	9:40	L	U	14.8	390	LT	684	3,750	1.17		N	Y	965000000065971	Y-RL10-0339	2010	2010
16-Jul-12	9:40	L	U	14.8	391	LT	680	-	-		N	Y	900026000149515	-	2012	-
16-Jul-12	9:40	L	U	14.8	392	AC	722	4,150	1.10	10	N	Y	965000000069821	Y-RL10-0810	2010	2010
16-Jul-12	9:40	L	D	14.8	393	AC	202	65	0.79	4	N	N	900026000149553	-	2012	-

Species Code: AC = Arctic char, LT = lake trout, LW = lake whitefish, RW = round whitefish, CISC = least cisco, SC = saffron cod

Box Location: L = Lower, U = Upper

Fish Direction: D = Downstream, U = Upstream

Y = yes, N = no

Dashes indicate not applicable

Appendix 7. Biological and Tagging Data from Fish Fences in Roberts Outflow, Doris North Project, 2012

Date (dd/mm/yy)	Time (24 hr clock)	Box Location (U/L)	Fish Direction (U/D)	Water Temp (˚C)	Unique Sample No.	Species Code	Fork Length (mm)	Weight (g)	Condition (K)	Age (years)	Mortality (Y/N)	Recap (Y/N)	PIT Tag No.	Floy Tag No.	PIT Tag Year	Floy Tag Year
16-Jul-12	9:40	L	D	14.8	394	LT	199	72	0.91		N	N	900026000062798	-	2012	-
16-Jul-12	9:40	L	D	14.8	395	AC	180	54	0.93	3	N	N	900026000149493	-	2012	-
16-Jul-12	9:40	L	D	14.8	396	AC	370	495	0.98	4	N	N	900026000149503	-	2012	-
16-Jul-12	9:40	L	D	14.8	397	AC	266	162	0.86	5	N	N	900026000149518	-	2012	-
16-Jul-12	9:40	L	D	14.8	398	AC	245	134	0.91		N	N	900026000149540	-	2012	-
16-Jul-12	9:40	L	D	14.8	399	AC	312	250	0.82	5	N	N	900026000149497	-	2012	-
16-Jul-12	9:40	L	D	14.8	400	AC	281	210	0.95		N	N	900026000149521	-	2012	-
16-Jul-12	9:40	L	D	14.8	401	LW	79	2	0.41		N	N	-	-	-	-
16-Jul-12	9:40	L	D	14.8	402	LT	241	114	0.81		N	N	900026000149537	-	2012	-
16-Jul-12	9:40	L	D	14.8	403	AC	268	156	0.81		N	N	900026000149585	-	2012	-
16-Jul-12	9:40	L	D	14.8	404	AC	211	69	0.73		N	N	900026000149560	-	2012	-
16-Jul-12	9:40	L	D	14.8	405	LT	216	91	0.90		N	N	900026000149652	-	2012	-
16-Jul-12	9:40	L	D	14.8	406	LT	236	85	0.65		N	N	900026000149664	-	2012	-
16-Jul-12	9:40	L	D	14.8	407	AC	237	105	0.79	4	N	N	900026000149623	-	2012	-
16-Jul-12	9:40	L	D	14.8	408	AC	206	74	0.85		N	N	900026000149616	-	2012	-
16-Jul-12	9:40	L	D	14.8	409	LT	216	82	0.81		N	N	900026000149674	-	2012	-
16-Jul-12	9:40	L	D	14.8	410	AC	263	162	0.89		N	N	900026000062820	-	2012	-
16-Jul-12	9:40	L	D	14.8	411	AC	236	105	0.80		N	N	900026000149668	-	2012	-
16-Jul-12	9:40	L	D	14.8	412	LT	210	65	0.70		N	N	900026000149605	-	2012	-
16-Jul-12	9:40	L	D	14.8	413	LT	213	66	0.68		N	N	900026000149634	-	2012	-
16-Jul-12	9:40	L	D	14.8	414	LT	213	85	0.88		N	N	900026000149624	-	2012	-
16-Jul-12	9:40	L	D	14.8	415	SC	282	-	-		N	N	900026000149676	-	2012	-
16-Jul-12	9:40	L	D	14.8	416	LT	241	103	0.74		N	N	900026000062799	-	2012	-
16-Jul-12	9:40	L	D	14.8	417	AC	249	120	0.78		N	N	900026000149665	-	2012	-
16-Jul-12	9:40	L	D	14.8	418	AC	362	410	0.86	6	N	N	900026000149686	-	2012	-
16-Jul-12	9:40	L	D	14.8	419	LT	261	142	0.80		N	N	900026000149636	-	2012	-
16-Jul-12	9:40	L	D	14.8	420	LT	212	88	0.92		N	N	900026000149621	-	2012	-
16-Jul-12	9:40	L	D	14.8	421	AC	754	2,450	0.57	13	N	Y	900026000149654	G-4626	2007	2006
16-Jul-12	9:40	L	D	14.8	422	AC	723	2,640	0.70	11	N	Y	965000000093183	Y-RL10-0421	2010	2010
16-Jul-12	9:40	L	D	14.8	423	LT	231	97	0.79		N	Y	900026000062819	-	2012	-
16-Jul-12	9:40	L	D	14.8	424	AC	345	390	0.95	5	N	Y	965000000070240	-	2012	-
16-Jul-12	9:40	L	D	14.8	425	AC	275	171	0.82		N	N	900026000149619	-	2012	-
16-Jul-12	9:40	L	D	14.8	426	AC	377	610	1.14		N	N	900026000149641	-	2012	-
16-Jul-12	9:40	L	D	14.8	427	AC	388	760	1.30	6	N	N	900026000149606	-	2012	-
16-Jul-12	9:40	L	D	14.8	428	AC	259	137	0.79		N	N	900026000149610	-	2012	-
16-Jul-12	9:40	L	D	14.8	429	AC	290	204	0.84	6	N	Y	900026000062802	-	2012	-
16-Jul-12	9:40	L	D	14.8	430	AC	372	420	0.82		N	N	900026000149626	-	2012	-
16-Jul-12	9:40	L	D	14.8	431	LT	168	42	0.89		N	N	900026000149670	-	2012	-
16-Jul-12	9:40	L	D	14.8	432	AC	377	420	0.78	5	N	N	900026000149667	-	2012	-
16-Jul-12	9:40	L	D	14.8	433	AC	272	174	0.86		N	N	900026000149647	-	2012	-
16-Jul-12	9:40	L	D	14.8	434	AC	276	610	2.90		Y	N	900026000149662	-	2012	-
16-Jul-12	9:40	L	D	14.8	435	AC	209	70	0.77		N	N	900026000149677	-	2012	-
16-Jul-12	9:40	L	D	14.8	436	AC	362	360	0.76		N	N	900026000149649	-	2012	-
17-Jul-12	9:30	L	U	14.4	500	LT	435	880	1.07		N	N	-	-	-	-
17-Jul-12	9:30	L	U	14.4	501	AC	768	5,500	1.21	12	N	N	900026000149639	-	2012	-
17-Jul-12	9:30	L	U	14.4	502	LT	574	2,340	1.24		N	N	-	-	-	-
17-Jul-12	9:30	L	U	14.4	503	LT	970	9,400	1.03		N	Y	965000000069900	Y-RL10-0798	2010	2010
17-Jul-12	9:30	L	U	14.4	504	LT	770	6,100	1.34		N	Y	-	G-4474	-	2005
17-Jul-12	9:30	L	U	14.4	505	LT	524	1,840	1.28		N	Y	965000000068947	Y-RL10-0428	2010	2010
17-Jul-12	9:30	L	U	14.4	506	AC	856	7,500	1.20	14	N	Y	900026000149627	Y-RL10-0776	-	2010
17-Jul-12	9:30	L	U	14.4	507	AC	724	6,850	1.80		N	Y	965000000065852	Y-RL10-0009	2010	2010
17-Jul-12	9:30	L	U	14.4	508	AC	899	11,110	1.53		N	Y	965000000078058	Y-RL10-0771	2010	2010
17-Jul-12	9:30	L	D	14.4	509	AC	215	106	1.07		N	N	900026000149692	-	2012	-
17-Jul-12	9:30	L	D	14.4	510	LT	112	13	0.93		N	N	-	-	-	-
17-Jul-12	13:50	L	U	14.4	511	LT	545	1,740	1.07		N	Y	965000000070448	Y-2011-0034	2011	2011
17-Jul-12	13:50	L	U	14.4	512	LT	534	2,350	1.54		N	Y	965000000071738	Y-RL10-0492	-	2010
17-Jul-12	13:50	L	U	14.4	513	AC	758	5,350	1.23	7	N	Y	985120031604677	-	2007	-
17-Jul-12	13:50	L	U	14.4	514	AC	810	6,810	1.28	15	N	N	900026000149629	-	2012	-
17-Jul-12	13:50	L	U	14.4	515	AC	686	3,880	1.20	11	N	N	900026000149632	-	2012	-
17-Jul-12	13:50	L	D	14.4	516	AC	396	640	1.03		N	N	900026000149608	-	2012	-
17-Jul-12	13:50	L	D	14.4	517	AC	373	455	0.88		Y	Y	900026000062752	-	2012	-
17-Jul-12	13:50	L	D	14.4	518	AC	251	123	0.78		N	N	900026000149609	-	2012	-
17-Jul-12	13:50	L	D	14.4	519	AC	274	181	0.88		Y	N	900026000149655	-	2012	-
17-Jul-12	13:50	L	D	14.4	520	AC	225	99	0.87		N	N	900026000149651	-	2012	-
17-Jul-12	13:50	L	D	14.4	521	AC	410	740	1.07		N	N	900026000149628	-	2012	-
17-Jul-12	13:50	L	D	14.4	522	AC	241	116	0.83		N	Y	900026000062682	-	2012	-
17-Jul-12	13:50	L	D	14.4	523	AC	284	216	0.94		N	N	900026000149690	-	2012	-
17-Jul-12	13:50	L	D	14.4	524	AC	346	371	0.90		N	Y	900026000062692	-	2012	-
17-Jul-12	13:50	L	D	14.4	525	AC	238	125	0.93		N	N	900026000149691	-	2012	-
17-Jul-12	13:50	L	D	14.4	526	AC	241	123	0.88		N	N	-	-	-	-
17-Jul-12	13:50	L	D	14.4	527	AC	234	121	0.94		N	N	900026000149682	-	2012	-
17-Jul-12	13:50	L	D	14.4	528	AC	415	740	1.04		N	N	900026000149602	-	2012	-
17-Jul-12	13:50	L	D	14.4	529	AC	318	248	0.77	5	N	N	900026000149642	-	2012	-
17-Jul-12	13:50	L	D	14.4	530	AC	249	142	0.92		N	N	-	-	-	-
17-Jul-12	13:50	L	D	14.4	531	LT	325	240	0.70		N	N	-	-	-	-
17-Jul-12	13:50	L	D	14.4	532	AC	387	490	0.85		N	N	-	-	-	-
17-Jul-12	13:50	L	D	14.4	533	AC	292	218	0.88		N	Y	965000000062646	-	2012	-
17-Jul-12	13:50	L	D	14.4	534	AC	254	151	0.92		N	N	900026000149644	-	2012	-
17-Jul-12	13:50	L	D	14.4	535	AC	243	130	0.91		N	N	900026000149678	-	2012	-
17-Jul-12	13:50	L	D	14.4	536	AC	268	162	0.84		N	N	900026000149598	-	2012	-
18-Jul-12	9:30	L	U	12.5	537	AC	403	600	0.92		N	Y	900026000149608	-	2012	-
18-Jul-12	9:30	L	U	12.5	538	LT	522	1,780	1.25		N	Y	965000000071348	Y-RL10-0503	2010	2010
19-Jul-12	11:30	L	U	9.2	539	LT	580	2,110	1.08		N	Y	985153000021438	G-4266	2005	2005
19-Jul-12	11:30	L	U	9.2	549	LT	548	2,090	1.27		N	Y	985153000021467	B-045	1997	2000
20-Jul-12	16:00	L	U	8.4	550	LT	575	2,640	1.39		N	Y	965000000066375	Y-RL10-0338	2010	2010
20-Jul-12	16:00	L	U	8.4	551	LT	652	2,450	0.88		N	Y	900026000149543	-	2012	-
20-Jul-12	16:00	L	U	8.4	552	LT	546	2,120	1.30		N	Y	985153000021422	G-4034	2004	2004
20-Jul-12	16:00	L	U	8.4	553	LT	522	1,580	1.11		N	Y	965000000070850	Y-RL10-0047	2010	2010
20-Jul-12	16:00	L	U	8.4	554	LT	460	1,210	1.24		N	N	-	-	-	-
20-Jul-12	16:00	L	U	8.4	555	LT	518	1,680	1.21		N	Y	985120031656284	-	2007	-
20-Jul-12	16:00	L	U	8.4	556	LT	432	860	1.07		N	Y	900026000062711	Y-2011-0117	2011	2011
20-Jul-12	16:00	L	D	8.4	557	LT	110	29	2.18		N	N	-	-	-	-
21-Jul-12	8:30	L	D	13.0	558	AC	156	35	0.92	3	N	N	900026000149646	-	2012	-
21-Jul-12	8:30	L	D	13.0	559	AC	352	520	1.19	5	N	N	900026000149657	-	2012	-
21-Jul-12	8:30	L	D	13.0	560	AC	486	1,190	1.04	9	N	N	900026000149637	-	2012	-
21-Jul-12	8:30	L	D	13.0	561	AC	158	36	0.91	3	N	N	900026000149685	-	2012	-
21-Jul-12	8:30	L	D	13.0	562	AC	441	780	0.91	7	N	N	900026000149601	-	2012	-
21-Jul-12	8:30	L	D	13.0	563	AC	372	507	0.98	5	N	N	900026000149638	-	2012	-
21-Jul-12	8:30	L	D	13.0	564	AC	306	252	0.88	3	N	N	900026000149663	-	2012	-

Species Code: AC = Arctic char, LT = lake trout, LW = lake whitefish, RW = round whitefish, CISC = least cisco, SC = saffron cod

Box Location: L = Lower, U = Upper

Fish Direction: D = Downstream, U = Upstream

Y = yes, N = no

Dashes indicate not applicable

Appendix 7. Biological and Tagging Data from Fish Fences in Roberts Outflow, Doris North Project, 2012

Date (dd/mm/yy)	Time (24 hr clock)	Box Location (U/L)	Fish Direction (U/D)	Water Temp (˚C)	Unique Sample No.	Species Code	Fork Length (mm)	Weight (g)	Condition (K)	Age (years)	Mortality (Y/N)	Recap (Y/N)	PIT Tag No.	Floy Tag No.	PIT Tag Year	Floy Tag Year
21-Jul-12	8:30	L	U	13.0	565	LT	408	772	1.14		N	Y	900026000062785	Y-2011-0088	2011	2011
21-Jul-12	8:30	L	U	13.0	566	LT	472	1,625	1.55		N	Y	965000000009939	-	2010	-
21-Jul-12	8:30	L	U	13.0	567	LT	518	1,550	1.12		N	Y	965000000071691	Y-RL10-0528	2010	2010
21-Jul-12	8:30	L	U	13.0	568	LT	548	990	0.60		N	Y	900026000062738	Y-2011-0080	2011	2011
21-Jul-12	8:30	L	U	13.0	569	LT	435	985	1.20		N	Y	900026000062762	Y-2011-0094	2011	2011
21-Jul-12	8:30	L	U	13.0	570	LT	466	1,205	1.19		N	Y	900026000062751	Y-2011-0129	2011	2011
21-Jul-12	8:30	L	U	13.0	571	LT	508	1,195	0.91		N	Y	965000000069746	Y-2011-0054	2011	2011
21-Jul-12	8:30	L	U	13.0	572	LT	442	1,145	1.33		N	Y	965000000069625	Y-RL10-0431	2010	2010
21-Jul-12	8:30	L	U	13.0	573	LT	574	2,185	1.16		N	Y	985153000021068	B-028	2000	2000
21-Jul-12	14:20	L	U	13.0	574	LT	-	-	-		N	Y	965000000002264	Y-2011-0051	2011	2011
21-Jul-12	14:20	L	U	13.0	575	LT	605	2,450	1.11		N	Y	-	G-4267	-	2005
21-Jul-12	14:20	L	U	13.0	576	LT	482	1,460	1.30		N	Y	900026000062662	Y-2011-0099	2011	2011
21-Jul-12	14:20	L	U	13.0	577	LT	498	1,575	1.28		N	Y	900026000062653	Y-2011-0116	2011	2011
21-Jul-12	14:20	L	D	13.0	578	AC	276	153	0.73		N	N	900026000149658	-	2012	-
21-Jul-12	14:20	L	D	13.0	579	LT	178	47	0.83		N	N	-	-	-	-
22-Jul-12	8:30	L	U	12.7	580	LT	416	740	1.03		N	Y	900026000062669	Y-2011-0114	2011	2011
22-Jul-12	8:30	L	U	12.7	581	LT	834	6,420	1.11		N	Y	-	G-4184	-	2004
22-Jul-12	8:30	L	U	12.7	582	LT	682	2,960	0.93		N	Y	-	G-4064	-	2004
22-Jul-12	8:30	L	U	12.7	583	LT	483	1,490	1.32		N	Y	900026000062675	Y-2011-0081	2012	2011
22-Jul-12	8:30	L	U	12.7	584	AC	704	4,560	1.31	8	N	N	900026000149666	-	2012	-
22-Jul-12	8:30	L	U	12.7	585	LT	474	1,380	1.30		N	Y	900026000062794	Y-2011-0091	2011	2011
22-Jul-12	8:30	L	U	12.7	586	LT	548	1,940	1.18		N	Y	965000000091341	Y-RL10-0594	2010	2010
22-Jul-12	8:30	L	U	12.7	587	AC	706	4,820	1.37	10	N	N	900026000149607	-	2012	-
22-Jul-12	8:30	L	D	12.7	588	AC	159	36	0.90	3	N	N	900026000149660	-	2012	-
22-Jul-12	8:30	L	D	12.7	589	LT	296	285	1.10		N	Y	900026000062710	-	2011	-
22-Jul-12	14:00	L	U	12.7	590	LT	764	2,680	0.60		N	Y	-	G-4516	-	2005
22-Jul-12	14:00	L	U	12.7	591	LT	656	2,250	0.80		N	N	-	-	-	-
22-Jul-12	14:00	L	U	12.7	592	LT	446	1,120	1.26		N	Y	965000000067478	-	2010	-
22-Jul-12	14:00	L	D	12.7	593	LT	418	860	1.18		N	N	-	-	-	-
22-Jul-12	14:00	L	D	12.7	594	LT	645	3,325	1.24		N	Y	-	G-4280	-	2005
22-Jul-12	14:00	L	D	12.7	595	AC	183	64	1.04	3	N	N	900026000149688	-	2012	-
22-Jul-12	14:00	L	U	12.7	596	LT	594	2,720	1.30		N	Y	965000000071203	Y-RL10-0508	2010	2010
23-Jul-12	8:30	L	U	9.7	597	LT	510	1,220	0.92		N	Y	985153000021429	Y-RL10-0121	2007	2010
23-Jul-12	8:30	L	U	9.7	598	LT	690	3,490	1.06		N	Y	965000000069475	Y-2011-0010	2011	2011
23-Jul-12	15:10	L	U	9.7	599	LT	431	790	0.99		N	Y	900026000062796	Y-2011-0018	2011	2011
23-Jul-12	15:10	L	U	9.7	600	AC	659	3,690	1.29	8	N	Y	900026000149615	-	2012	-
24-Jul-12	8:00	L	D	11.0	601	LT	572	1,840	0.98		N	Y	965000000003805	Y-2011-0052	2011	2011
24-Jul-12	8:00	L	D	11.0	602	LT	519	1,370	0.98		N	Y	965000000068366	Y-2011-0042	2011	2011
24-Jul-12	8:00	L	D	11.0	603	LT	481	1,170	1.05		N	Y	900026000062739	Y-2011-0093	2011	2011
25-Jul-12	8:15	L	U	11.1	604	LT	512	1,310	0.98		N	Y	-	G-4365	-	2005
25-Jul-12	8:15	L	U	11.1	605	AC	644	2,520	0.94		N	Y	900026000062668	Y-2011-0109	2011	2011
25-Jul-12	8:15	L	U	11.1	606	LT	527	1,810	1.24		N	Y	965000000071673	Y-2011-0055	2011	2011
25-Jul-12	8:15	L	U	11.1	607	LT	439	990	1.17		N	Y	965000000069906	Y-RL10-0222	2010	2010
25-Jul-12	8:15	L	U	11.1	608	LT	672	3,760	1.24		N	Y	985153000021042	G-4884	2007	2007
25-Jul-12	8:15	L	U	11.1	609	LT	448	1,010	1.12		N	N	-	-	-	-
25-Jul-12	8:15	L	U	11.1	610	LT	611	1,820	0.80		N	N	-	-	-	-
25-Jul-12	8:15	L	U	11.1	611	LT	488	1,085	0.93		N	Y	900026000062722	Y-2011-0134	2011	2011
25-Jul-12	8:15	L	U	11.1	612	AC	597	2,840	1.33		N	N	900026000149596	-	2012	-
25-Jul-12	8:15	L	U	11.1	613	LT	613	2,410	1.05		N	N	-	-	-	-
25-Jul-12	8:15	L	U	11.1	614	LT	434	890	1.09		N	Y	965000000066934	Y-RL10-0548	2010	2010
25-Jul-12	8:15	L	U	11.1	615	LT	712	2,780	0.77		N	Y	-	O-0908	-	-
25-Jul-12	8:15	L	U	11.1	616	AC	772	5,170	1.12		N	Y	965000000069041	Y-RL10-0323	2010	2010
25-Jul-12	8:15	L	U	11.1	617	AC	791	5,525	1.12		N	Y	965000000066117	Y-RL10-0240	2010	2010
25-Jul-12	8:15	L	U	11.1	618	LT	448	1,010	1.12		N	N	-	-	-	-
25-Jul-12	8:15	L	U	11.1	619	AC	694	4,980	1.49	10	N	N	900026000149645	-	2012	-
25-Jul-12	8:15	L	U	11.1	620	AC	653	3,425	1.23		N	N	900026000149568	-	2012	-
25-Jul-12	14:00	L	U	11.1	621	LT	437	1,045	1.25		N	N	-	-	-	-
25-Jul-12	14:00	L	U	11.1	622	LT	422	820	1.09		N	Y	900026000062825	Y-2011-0126	2011	2011
26-Jul-12	8:00	L	U	11.0	650	AC	812	6,820	1.27	13	N	N	900026000149689	-	2012	-
26-Jul-12	8:00	L	U	11.0	651	AC	748	5,875	1.40	8	N	N	900026000149630	-	2012	-
26-Jul-12	8:00	L	U	11.0	652	LT	492	1,445	1.21		N	Y	900026000062665	Y-2011-0101	-	2011
26-Jul-12	8:00	L	D	11.0	653	LT	675	1,520	0.49		Y	N	-	-	-	-
27-Jul-12	15:30	L	U	10.3	654	AC	645	4,100	1.53	7	N	N	900026000149655	-	2012	-
27-Jul-12	15:30	L	U	10.3	655	AC	683	4,000	1.26	9	N	N	900026000149617	-	2012	-
27-Jul-12	15:30	L	U	10.3	656	AC	814	7,500	1.39		N	Y	985120031452028	G-3833	2007	2007
27-Jul-12	15:30	L	U	10.3	657	LT	385	750	1.31		N	Y	900026000062649	Y-2011-0083	2011	2011
27-Jul-12	15:30	L	D	10.3	658	LW	151	34	0.99		Y	N	-	-	-	-
29-Jul-12	8:00	L	U	10.2	659	AC	778	7,200	1.53		N	Y	985120031607457	G-3836	2007	2007
30-Jul-12	8:30	L	U	10.2	660	AC	675	4,750	1.54	8	N	N	900026000149659	-	2012	-
30-Jul-12	8:30	L	U	10.2	661	AC	611	3,750	1.64	7	N	N	900026000149594	-	2012	-
30-Jul-12	8:30	L	U	10.2	662	AC	610	3,750	1.65		N	N	900026000149683	-	2012	-
30-Jul-12	8:30	L	U	10.2	663	LT	421	925	1.24		N	Y	965000000072150	Y-RL10-0414	2010	2010
30-Jul-12	13:30	U	U	10.2	664	AC	778	7,200	1.53		N	Y	985120031607457	G-3836	2007	2007
30-Jul-12	13:30	U	U	10.2	665	AC	626	-	-		N	Y	965000000072367	Y-RL10-0014	2011	2010
30-Jul-12	13:30	U	U	10.2	666	AC	675	4,750	1.54		N	Y	900026000149659	-	2012	-
30-Jul-12	13:30	U	U	10.2	667	LT	421	925	1.24		N	Y	965000000072150	Y-RL10-0414	2010	2010
30-Jul-12	13:30	U	U	10.2	668	AC	610	3,750	1.65		N	Y	900026000149683	-	2007	-
30-Jul-12	13:30	U	U	10.2	669	AC	611	3,750	1.64		N	Y	900026000149594	-	2012	-
30-Jul-12	13:30	U	D	10.2	670	AC	719	2,350	0.63	12	N	N	900026000149625	-	2012	-
31-Jul-12	8:30	L	U	11.2	671	AC	678	6,300	2.02	13	N	N	900026000149672	-	2012	-
31-Jul-12	8:30	L	U	11.2	672	AC	578	3,100	1.61	9	N	N	900026000149684	-	2012	-
31-Jul-12	8:30	L	U	11.2	673	AC	557	3,250	1.88		N	Y	900026000062764	Y-2011-0143	2011	2011
31-Jul-12	8:30	L	U	11.2	674	AC	784	6,500	1.35		N	Y	965000000064967	-	2010	-
31-Jul-12	8:30	L	U	11.2	675	AC	831	7,200	1.25		N	Y	965000000072820	Y-RL10-0480	2010	2010
31-Jul-12	8:30	L	U	11.2	676	AC	589	3,250	1.59	8	N	N	900026000149687	-	2012	-
31-Jul-12	8:30	L	U	11.2	677	AC	620	3,700	1.55		N	Y	965000000010429	Y-RL10-0250	2010	2010
31-Jul-12	8:30	L	U	11.2	678	AC	830	7,800	1.36	15	N	N	900026000149640	-	2012	-
31-Jul-12	8:30	L	U	11.2	679	AC	587	3,450	1.71	9	N	N	900026000149633	-	2012	-
31-Jul-12	10:30	U	U	11.2	680	AC	486	1,050	0.91	7	N	N	900026000149681	-	2012	-
31-Jul-12	10:30	U	D	11.2	681	LT	646	2,800	1.04		N	N	900026000149620	-	2012	-
31-Jul-12	17:45	L	U	11.2	682	LT	478	1,300	1.19		N	N	900026000149613	-	2012	-
31-Jul-12	17:45	L	U	11.2	683	AC	589	2,600	1.27		N	Y	965000000072022	Y-RL10-0129	2010	2010
31-Jul-12	17:45	L	U	11.2	684	AC	886	8,100	1.16		N	Y	965000000066251	Y-RL10-0302	2010	2010
31-Jul-12	17:45	L	U	11.2	685	AC	795	5,900	1.17		N	Y	965000000069474	Y-RL10-0505	2010	2010
31-Jul-12	17:45	L	U	11.2	686	AC	799	7,450	1.46	9	N	N	900026000149653	-	2012	-
31-Jul-12	17:45	L	U	11.2	687	LT	424	1,050	1.38		N	Y	900026000062687	Y-2011-0096	2011	2011
31-Jul-12	17:45	L	D	11.2	688	AC	214	89	0.91		N	N	900026000149675	-	2012	-
31-Jul-12	17:45	U	U	11.2	689	AC	831	7,200	1.25		N	Y	965000000072820	Y-RL10-0480	2010	2010
31-Jul-12	17:45	U	U	11.2	690	AC	557	3,250	1.88		N	Y	900026000062764	Y-2011-0143	2011	2011

Species Code: AC = Arctic char, LT = lake trout, LW = lake whitefish, RW = round whitefish, CISC = least cisco, SC = saffron cod

Box Location: L = Lower, U = Upper

Fish Direction: D = Downstream, U = Upstream

Y = yes, N = no

Dashes indicate not applicable

Appendix 7. Biological and Tagging Data from Fish Fences in Roberts Outflow, Doris North Project, 2012

Date (dd/mm/yy)	Time (24 hr clock)	Box Location (U/L)	Fish Direction (U/D)	Water Temp (˚C)	Unique Sample No.	Species Code	Fork Length (mm)	Weight (g)	Condition (K)	Age (years)	Mortality (Y/N)	Recap (Y/N)	PIT Tag No.	Floy Tag No.	PIT Tag Year	Floy Tag Year
31-Jul-12	17:45	L	D	11.2	691	CISC	143	50	1.71		Y	N	-	-	-	-
1-Aug-12	8:15	U	U	12.1	692	AC	719	2,350	0.63		N	Y	900026000149625	-	2012	-
1-Aug-12	8:15	U	U	12.1	693	AC	578	3,100	1.61		N	Y	900026000149684	-	2012	-
1-Aug-12	8:15	U	U	12.1	694	AC	886	8,100	1.16		N	Y	965000000066251	Y-RL10-0302	2010	2010
1-Aug-12	8:15	U	U	12.1	695	AC	589	2,600	1.27		N	Y	965000000072022	Y-RL10-0129	2010	2010
1-Aug-12	8:15	U	U	12.1	696	AC	620	3,700	1.55		N	Y	965000000010429	Y-RL10-0250	2010	2010
1-Aug-12	8:15	U	U	12.1	697	AC	784	6,500	1.35		N	Y	965000000064967	-	2010	-
1-Aug-12	8:15	L	U	12.1	698	AC	603	3,300	1.51	7	N	N	900026000149597	-	2012	-
1-Aug-12	8:15	L	U	12.1	699	AC	575	2,950	1.55		N	N	900026000149669	-	2012	-
1-Aug-12	8:15	L	U	12.1	700	AC	609	3,700	1.64	7	N	N	900026000149679	-	2012	-
1-Aug-12	8:15	L	U	12.1	701	AC	595	3,300	1.57	7	N	N	900026000149604	-	2012	-
1-Aug-12	8:15	L	U	12.1	702	AC	617	3,400	1.45	8	N	N	900026000149600	-	2012	-
1-Aug-12	8:15	L	U	12.1	703	AC	588	3,000	1.48		N	N	900026000149593	-	2012	-
1-Aug-12	8:15	L	U	12.1	704	AC	582	2,950	1.50	9	N	N	900026000149599	-	2012	-
1-Aug-12	8:15	L	U	12.1	705	AC	588	3,300	1.62	9	N	N	900026000149635	-	2012	-
1-Aug-12	8:15	L	U	12.1	706	AC	780	6,400	1.35	12	N	N	900026000149650	-	2012	-
1-Aug-12	8:15	L	U	12.1	707	AC	850	8,000	1.30	13	N	N	900026000149595	-	2012	-
1-Aug-12	8:15	L	U	12.1	708	LT	476	1,550	1.44		N	Y	900026000062659	Y-2011-0082	2011	2011
1-Aug-12	8:15	L	U	12.1	709	LT	778	4,500	0.96		N	N	900026000149612	-	2012	-
1-Aug-12	8:15	L	U	12.1	710	AC	610	3,550	1.56	7	N	N	900026000149720	-	2012	-
1-Aug-12	8:15	L	U	12.1	711	AC	688	4,575	1.40	10	N	N	900026000149753	-	2012	-
1-Aug-12	8:15	L	U	12.1	712	AC	500	1,900	1.52	6	N	N	900026000149723	-	2012	-
1-Aug-12	8:50	L	U	12.1	713	LT	409	925	1.35		N	N	900026000149778	-	2012	-
1-Aug-12	8:50	L	U	12.1	714	AC	600	2,975	1.38		N	Y	965000000070707	Y-RL10-0041	2010	2010
1-Aug-12	8:50	L	U	12.1	715	LT	436	1,200	1.45		N	N	900026000149724	-	2012	-
1-Aug-12	8:50	L	U	12.1	716	LT	486	1,700	1.48		N	Y	900026000062759	Y-2011-0056	2011	2011
1-Aug-12	8:50	L	U	12.1	717	LT	469	1,550	1.50		N	N	900026000149717	-	2012	-
1-Aug-12	8:50	L	U	12.1	718	LT	556	1,500	0.87		N	Y	965000000071531	Y-RL10-0448	2010	2010
1-Aug-12	8:50	L	U	12.1	719	LT	559	2,250	1.29		N	Y	985153000021460	G-3988	2007	2007
1-Aug-12	8:50	L	U	12.1	720	AC	536	2,250	1.46	6	N	N	900026000149702	-	2012	-
1-Aug-12	8:50	L	U	12.1	721	LT	370	600	1.18		N	N	900026000149708	-	2012	-
1-Aug-12	8:50	L	U	12.1	722	LT	666	3,400	1.15		N	Y	965000000071214	Y-2011-0041	2011	2011
1-Aug-12	8:50	L	U	12.1	723	LT	619	2,200	0.93		N	Y	965000000066925	Y-RL10-0483	2007	2010
1-Aug-12	8:50	L	U	12.1	724	LT	426	1,100	1.42		N	N	900026000149707	-	2012	-
1-Aug-12	16:25	L	U	12.1	725	AC	640	4,250	1.62		N	Y	965000000002505	Y-RL10-0559	2010	2010
1-Aug-12	16:25	L	U	12.1	726	AC	524	2,000	1.39	9	N	N	900026000149705	-	2012	-
1-Aug-12	16:25	L	U	12.1	727	LT	427	1,000	1.28		N	N	900026001497671	-	2012	-
1-Aug-12	16:25	L	U	12.1	728	LT	667	4,000	1.35		N	Y	985120031633147	-	2007	-
1-Aug-12	16:25	U	U	12.1	729	AC	588	3,000	1.48		N	Y	900026000149593	-	2012	-
1-Aug-12	16:25	U	U	12.1	730	AC	600	2,175	1.01		N	Y	965000000070707	Y-RL10-0041	2010	2010
1-Aug-12	16:25	U	U	12.1	731	AC	688	4,575	1.40		N	Y	900026000149753	-	2012	-
1-Aug-12	16:25	U	U	12.1	732	AC	595	3,300	1.57		N	Y	900026000149604	-	2012	-
1-Aug-12	16:25	U	U	12.1	733	AC	588	3,300	1.62		N	Y	900026000149635	-	2012	-
1-Aug-12	16:25	U	U	12.1	734	LT	646	2,800	1.04		N	Y	900026000149620	-	2012	-
1-Aug-12	16:25	U	U	12.1	735	LT	426	1,100	1.42		N	Y	900026000149707	-	2012	-
1-Aug-12	16:25	U	U	12.1	736	AC	610	3,550	1.56		N	Y	900026000149720	-	2012	-
1-Aug-12	16:25	U	U	12.1	737	AC	500	1,900	1.52		N	Y	900026000149723	-	2012	-
1-Aug-12	16:25	U	U	12.1	738	AC	795	5,900	1.17		N	Y	965000000069474	Y-RL10-0505	2010	2010
1-Aug-12	16:25	U	U	12.1	739	AC	589	3,250	1.59		N	Y	900026000149687	-	2012	-
1-Aug-12	16:25	U	U	12.1	740	LT	486	1,700	1.48		N	Y	900026000062759	Y-2011-0056	2011	2011
1-Aug-12	16:25	U	U	12.1	741	LT	469	1,550	1.50		N	Y	900026000149717	-	2012	-
1-Aug-12	16:25	U	U	12.1	742	AC	587	3,450	1.71		N	Y	900026000149633	-	2012	-
1-Aug-12	16:25	U	U	12.1	743	LT	478	1,300	1.19		N	Y	900026000149613	-	2012	-
2-Aug-12	8:35	U	U	13.2	744	LT	-	-	-		N	Y	900026000062659	Y-2011-0082	2011	2011
2-Aug-12	8:35	U	U	13.2	745	AC	-	-	-		N	Y	900026000149705	-	2012	-
2-Aug-12	8:35	U	U	13.2	746	AC	-	-	-		N	Y	900026000149595	-	2012	-
2-Aug-12	8:35	U	U	13.2	747	AC	-	-	-		N	Y	900026000149650	-	2012	-
2-Aug-12	8:35	U	U	13.2	748	LT	-	-	-		N	Y	900026000149612	-	2012	-
2-Aug-12	8:35	U	U	13.2	749	LT	-	-	-		N	Y	985153000021460	G-3988	2007	2007
2-Aug-12	8:35	L	U	13.2	750	AC	650	4,800	1.75		N	N	900026000149727	-	2012	-
2-Aug-12	8:35	L	U	13.2	751	AC	585	3,000	1.50		N	Y	900026000062757	Y-2011-0131	2011	2011
2-Aug-12	8:35	L	U	13.2	752	AC	670	5,250	1.75	8	N	N	900026000149726	-	2012	-
2-Aug-12	8:35	L	U	13.2	753	AC	853	8,300	1.34	14	N	N	900026000149766	-	2012	-
2-Aug-12	8:35	L	U	13.2	754	AC	845	7,400	1.23	14	N	N	900026000149767	-	2012	-
2-Aug-12	8:35	L	U	13.2	755	AC	660	3,700	1.29		N	N	900026000149755	-	2012	-
2-Aug-12	8:35	L	U	13.2	756	AC	642	4,400	1.66		N	Y	965000000068241	Y-RL10-0034	2010	2010
2-Aug-12	8:35	L	U	13.2	757	AC	602	3,250	1.49		N	N	900026000149736	-	2012	-
2-Aug-12	8:35	L	U	13.2	758	AC	492	1,925	1.62		N	N	900026000149700	-	2012	-
2-Aug-12	8:35	L	U	13.2	759	AC	712	5,550	1.54	10	N	N	900026000149731	-	2012	-
2-Aug-12	8:35	L	U	13.2	760	AC	695	5,200	1.55	10	N	N	900026000149745	-	2012	-
2-Aug-12	8:35	L	U	13.2	761	AC	448	1,300	1.45	7	N	N	900026000149715	-	2012	-
2-Aug-12	8:35	L	U	13.2	762	AC	589	3,100	1.52		N	Y	900026000062736	Y-2011-0122	2011	2011
2-Aug-12	8:35	L	U	13.2	763	AC	250	161	1.03		N	N	900026000149739	-	2012	-
2-Aug-12	18:00	L	U	13.2	764	AC	820	6,600	1.20	16	N	N	900026000149776	-	2012	-
2-Aug-12	18:00	L	U	13.2	765	LT	435	1,000	1.21		N	Y	900026000062776	Y-2011-0085	2011	2011
2-Aug-12	18:00	L	U	13.2	766	AC	790	5,600	1.14		N	Y	965000000070593	Y-RL10-0019	2010	2010
2-Aug-12	18:00	L	U	13.2	767	AC	645	4,350	1.62		N	N	900026000149751	-	2012	-
2-Aug-12	18:00	U	U	13.2	768	AC	603	3,300	1.51		N	Y	900026000149669	-	2012	-
2-Aug-12	18:00	U	U	13.2	769	AC	585	3,000	1.50		N	Y	900026000062757	Y-2011-0131	2011	2011
2-Aug-12	18:00	U	U	13.2	770	AC	853	8,300	1.34		N	Y	900026000149766	-	2012	-
2-Aug-12	18:00	U	U	13.2	771	AC	640	4,250	1.62		N	Y	965000000002505	Y-RL10-0559	2010	2010
2-Aug-12	18:00	U	U	13.2	772	AC	690	5,250	1.60		N	Y	900026000149726	-	2012	-
2-Aug-12	18:00	U	U	13.2	773	AC	695	5,200	1.55		N	Y	900026000149745	-	2012	-
2-Aug-12	18:00	U	U	13.2	774	AC	609	3,700	1.64		N	Y	900026000149679	-	2012	-
2-Aug-12	18:00	U	U	13.2	775	LT	427	1,000	1.28		N	Y	900026000149761	-	2012	-
2-Aug-12	18:00	U	U	13.2	776	AC	496	1,100	0.90	9	N	N	900026000149713	-	2012	-
3-Aug-12	9:00	L	U	14.1	777	AC	722	5,200	1.38		N	Y	965000000078318	Y-RL10-0103	2010	2010
3-Aug-12	9:00	L	U	14.1	778	AC	552	2,550	1.52	7	N	N	900026000149786	-	2012	-
3-Aug-12	9:00	L	U	14.1	779	AC	683	3,550	1.11		N	Y	900026000149783	Y-RL10-0213	2012	2010
3-Aug-12	9:00	L	U	14.1	780	AC	544	2,500	1.55	8	N	N	900026000149710	-	2012	-
3-Aug-12	9:00	L	U	14.1	781	AC	548	2,350	1.43	8	N	N	900026000149768	-	2012	-
3-Aug-12	9:00	L	U	14.1	782	AC	620	3,450	1.45		N	N	900026000149694	-	2012	-
3-Aug-12	9:00	L	U	14.1	783	LT	875	6,800	1.02		N	Y	985153000021076	G-4699	2006	2006
3-Aug-12	9:00	L	U	14.1	784	LT	462	1,050	1.06		N	Y	900026000149779	G-4342	2012	2005
3-Aug-12	9:00	L	U	14.1	785	AC	782	6,650	1.39	12	N	N	900026000149733	-	2012	-
3-Aug-12	9:00	L	U	14.1	786	AC	840	8,600	1.45	8	N	N	900026000149789	-	2012	-
3-Aug-12	9:00	L	U	14.1	787	AC	272	180	0.89	6	N	N	900026000149703	-	2012	-
3-Aug-12	9:00	U	U	14.1	788	AC	645	4,350	1.62		N	Y	900026000149751	-	2012	-
3-Aug-12	9:00	U	U	14.1	789	AC	492	1,925	1.62		N	Y	900026000149700	-	2012	-

Species Code: AC = Arctic char, LT = lake trout, LW = lake whitefish, RW = round whitefish, CISC = least cisco, SC = saffron cod

Box Location: L = Lower, U = Upper

Fish Direction: D = Downstream, U = Upstream

Y = yes, N = no

Dashes indicate not applicable

Appendix 7. Biological and Tagging Data from Fish Fences in Roberts Outflow, Doris North Project, 2012

Date (dd/mm/yy)	Time (24 hr clock)	Box Location (U/L)	Fish Direction (U/D)	Water Temp (˚C)	Unique Sample No.	Species Code	Fork Length (mm)	Weight (g)	Condition (K)	Age (years)	Mortality (Y/N)	Recap (Y/N)	PIT Tag No.	Floy Tag No.	PIT Tag Year	Floy Tag Year
3-Aug-12	9:00	U	U	14.1	790	AC	582	2,950	1.50		N	Y	900026000149599	-	2012	-
3-Aug-12	9:00	U	U	14.1	791	AC	820	6,600	1.20		N	Y	900026000149776	-	2012	-
3-Aug-12	9:00	U	U	14.1	792	AC	602	3,250	1.49		N	Y	900026000149736	-	2012	-
3-Aug-12	9:00	U	U	14.1	793	AC	660	3,700	1.29		N	Y	900026000149755	-	2012	-
3-Aug-12	9:00	U	U	14.1	794	AC	603	3,300	1.51		N	Y	900026000149597	-	2012	-
3-Aug-12	16:20	L	U	14.1	795	AC	104	12	1.07	2	N	N	900026000149695	-	2012	-
3-Aug-12	16:20	L	U	14.1	796	AC	428	950	1.21		N	Y	965000000072966	Y-RL10-0026	2010	2010
3-Aug-12	16:20	L	U	14.1	797	AC	559	2,500	1.43		N	N	900026000149787	-	2012	-
3-Aug-12	16:20	U	U	14.1	798	AC	620	3,450	1.45		N	Y	900026000149694	-	2012	-
3-Aug-12	16:20	U	U	14.1	799	AC	790	5,600	1.14		N	Y	965000000070593	Y-RL10-0019	2010	2010
3-Aug-12	16:20	U	U	14.1	800	AC	-	-	-		N	Y	900026000149703	-	2012	-
4-Aug-12	9:00	U	U	14.9	801	AC	683	3,550	1.11		N	Y	900026000149783	Y-RL10-0213	2012	2010
4-Aug-12	9:00	U	U	14.9	802	AC	845	7,400	1.23		N	Y	900026000149767	-	2012	-
4-Aug-12	9:00	U	U	14.9	803	AC	589	3,100	1.52		N	Y	900026000062736	Y-2011-0122	2011	2011
4-Aug-12	9:00	U	U	14.9	804	AC	428	950	1.21		N	Y	965000000072966	Y-RL10-0026	2010	2010
4-Aug-12	9:00	U	U	14.9	805	AC	552	2,550	1.52		N	Y	900026000149786	-	2012	-
5-Aug-12	15:40	L	U	13.4	806	AC	548	2,500	1.52	7	N	N	900026000149877	-	2012	-
5-Aug-12	15:40	L	U	13.4	807	AC	745	5,200	1.26		N	Y	965000000070030	Y-RL10-0821	2010	2010
5-Aug-12	15:40	L	U	13.4	808	AC	805	7,250	1.39		N	Y	985153000021494	-	2007	-
5-Aug-12	15:40	L	U	13.4	809	AC	285	300	1.30		N	N	900026000149881	-	2012	-
5-Aug-12	16:30	U	U	13.4	810	LT	328	500	1.42		N	N	900026000149880	-	2012	-
6-Aug-12	10:40	U	U	12.9	811	AC	559	2,500	1.43		N	Y	900026000149787	-	2012	-
6-Aug-12	10:40	U	U	12.9	812	AC	745	5,200	1.26		N	Y	965000000070030	Y-RL10-0821	2010	2010
6-Aug-12	10:40	U	U	12.9	813	LT	424	1,050	1.38		N	Y	900026000062687	Y-2011-0096	2011	2011
6-Aug-12	10:40	U	U	12.9	814	AC	249	151	0.98		N	N	900026000149886	-	2012	-
6-Aug-12	10:40	U	U	12.9	815	AC	414	650	0.92		N	N	900026000149866	-	2012	-
6-Aug-12	10:40	U	U	12.9	816	AC	548	2,500	1.52		N	Y	900026000149877	-	-	-
6-Aug-12	10:40	U	U	12.9	817	LT	409	925	1.35		N	Y	900026000149778	-	2012	-
6-Aug-12	10:40	L	U	12.9	818	AC	316	450	1.43		N	N	900026000149738	-	2012	-
7-Aug-12	8:45	L	U	12.0	819	AC	643	4,100	1.54		N	Y	965000000078230	Y-RL10-0141	2010	2010
7-Aug-12	8:45	L	U	12.0	820	AC	744	5,250	1.27		N	Y	965000000070346	Y-RL10-0104	2010	2010
7-Aug-12	8:45	L	U	12.0	821	AC	550	2,025	1.22		N	N	900026000149878	-	2012	-
7-Aug-12	8:45	L	U	12.0	822	AC	757	5,550	1.28		N	Y	965000000086011	-	2010	-
7-Aug-12	8:45	L	U	12.0	823	AC	670	4,475	1.49	8	N	N	900026000149697	-	2012	-
7-Aug-12	8:45	L	U	12.0	824	AC	411	900	1.30	6	N	N	900026000149746	-	2012	-
7-Aug-12	8:45	L	U	12.0	825	AC	390	850	1.43	6	N	N	900026000149891	-	2012	-
7-Aug-12	8:45	L	U	12.0	826	AC	379	800	1.47		N	Y	900026000149756	-	2012	-
7-Aug-12	14:00	U	U	12.0	827	AC	757	5,550	1.28		N	Y	965000000086011	-	2010	-
7-Aug-12	14:00	U	U	12.0	828	AC	399	500	0.79		N	N	900026000149741	-	2012	-
7-Aug-12	14:00	U	U	12.0	829	AC	744	5,250	1.27		N	Y	965000000070346	Y-RL10-0104	2010	2010
7-Aug-12	14:00	U	U	12.0	830	AC	448	1,300	1.45		N	Y	900026000149715	-	2012	-
7-Aug-12	14:00	U	U	12.0	831	AC	-	-	-		N	Y	965000000069056	-	-	-
7-Aug-12	14:00	U	U	12.0	832	AC	316	450	1.43		N	Y	900026000149738	-	2012	-
7-Aug-12	14:00	U	U	12.0	833	AC	390	850	1.43		N	Y	900026000149891	-	2012	-
7-Aug-12	14:00	U	U	12.0	834	AC	550	2,025	1.22		N	Y	900026000149878	-	2012	-
7-Aug-12	14:00	U	U	12.0	835	LT	285	200	0.86		N	N	900026000149718	-	2012	-
7-Aug-12	14:00	U	U	12.0	836	AC	379	800	1.47		N	Y	900026000149756	-	2012	-
7-Aug-12	17:15	L	U	12.0	837	AC	850	7,450	1.21	20	N	N	900026000149775	-	2012	-
7-Aug-12	17:15	U	U	12.0	838	AC	214	99	1.01	3	N	N	900026000149888	-	2012	-
7-Aug-12	17:15	U	U	12.0	839	AC	225	137	1.20	4	N	N	900026000149693	-	2012	-
8-Aug-12	8:40	U	U	12.6	840	AC	712	5,550	1.54		N	Y	900026000149731	-	2012	-
8-Aug-12	8:40	U	U	12.6	841	CISC	166	458	10.01		N	N	-	-	-	-
8-Aug-12	8:40	L	U	12.6	842	LW	32	-	-		Y	N	-	-	-	-
8-Aug-12	8:40	L	U	12.6	843	LT	452	900	0.97		N	N	900026000149711	-	2012	-
8-Aug-12	8:40	L	U	12.6	844	AC	288	212	0.89	6	N	N	900026000149722	-	2012	-
8-Aug-12	8:40	U	U	12.6	855	LT	666	3,400	1.15		N	Y	965000000071214	Y-2011-0041	2011	2011
9-Aug-12	8:30	U	U	12.8	856	LT	619	2,200	0.93		N	Y	965000000066925	Y-RL10-0483	2010	2010
9-Aug-12	8:30	U	U	12.8	857	AC	285	300	1.30		N	Y	900026000149881	-	2012	-
9-Aug-12	8:30	U	U	12.8	858	AC	288	212	0.89		N	Y	900026000149722	-	2012	-
10-Aug-12	16:30	U	U	13.0	859	LT	435	1,000	1.21		N	Y	900026000062776	Y-2011-0085	2011	2011
10-Aug-12	16:30	L	U	13.0	860	AC	577	2,275	1.18		N	Y	965000000069447	Y-RL10-0827	2010	2010
10-Aug-12	16:30	L	U	13.0	861	AC	590	2,600	1.27		N	Y	965000000010154	Y-RL10-0450	2010	2010
10-Aug-12	16:30	L	U	13.0	862	AC	390	800	1.35	4	N	N	900026000149699	-	2012	-
10-Aug-12	16:30	L	U	13.0	863	AC	414	800	1.13	8	N	N	900026000149791	-	2012	-
10-Aug-12	16:30	L	U	13.0	864	LT	430	950	1.19		N	Y	900026000149773	G-4867	2012	2007
10-Aug-12	16:30	L	U	13.0	865	AC	488	1,150	0.99		N	Y	965000000069334	Y-RL10-0224	2010	2010
11-Aug-12	9:20	U	U	12.1	866	AC	414	800	1.13		N	Y	900026000149791	-	2012	-
11-Aug-12	9:20	U	U	12.1	867	LT	430	950	1.19		N	Y	900026000149773	G-4867	2012	2007
11-Aug-12	9:20	U	U	12.1	868	AC	-	-	-		N	Y	900026000149699	-	2012	-
11-Aug-12	9:20	U	U	12.1	869	AC	488	1,150	0.99		N	Y	965000000069334	Y-RL10-0224	2010	2010
12-Aug-12	9:55	L	U	11.2	870	AC	328	1,050	2.98	3	N	N	900026000149874	-	2012	-
12-Aug-12	9:55	L	U	11.2	871	AC	828	7,175	1.26		N	Y	965000000072226	Y-RL10-0420	2010	2010
12-Aug-12	9:55	L	U	11.2	872	AC	545	2,000	1.24	6	N	N	900026000149763	-	2012	-
12-Aug-12	9:55	L	U	11.2	873	AC	407	900	1.33	6	N	N	900026000149887	-	2012	-
12-Aug-12	9:55	L	U	11.2	874	LT	468	1,300	1.27		N	N	900026000149698	-	2012	-
12-Aug-12	9:55	L	U	11.2	875	AC	211	112	1.19		N	N	900026000149884	-	2012	-
12-Aug-12	15:30	U	U	11.2	876	AC	328	1,050	2.98		N	Y	900026000149874	-	2012	-
12-Aug-12	15:30	L	U	11.2	877	AC	605	7,300	3.30	18	N	N	900026000149774	-	2012	-
12-Aug-12	15:30	L	U	11.2	878	AC	618	2,775	1.18	8	N	N	900026000149771	-	2012	-
12-Aug-12	15:30	L	U	11.2	879	AC	792	6,800	1.37	12	N	N	900026000149785	-	2012	-
12-Aug-12	15:30	L	U	11.2	880	AC	586	2,950	1.47		N	N	900026000149719	-	2012	-
12-Aug-12	15:30	L	U	11.2	881	AC	705	4,800	1.37		N	Y	900026000149735	Y-RL10-0830	2010	2010
12-Aug-12	15:30	L	U	11.2	882	AC	683	3,850	1.21		N	Y	965000000065977	Y-RL10-0246	2010	2010
12-Aug-12	15:30	L	U	11.2	883	AC	634	3,400	1.33		N	Y	965000000066110	Y-RL10-0106	2010	2010
12-Aug-12	15:30	L	U	11.2	884	AC	745	5,800	1.40		N	Y	965000000069867	-	2010	-
12-Aug-12	15:30	L	U	11.2	885	AC	500	2,000	1.60	7	N	N	900026000149777	-	2012	-
12-Aug-12	15:30	L	U	11.2	886	AC	829	8,000	1.40	15	N	N	900026000149740	-	2012	-
12-Aug-12	15:30	L	U	11.2	887	AC	824	7,200	1.29		N	Y	985120031581259	-	2007	-
12-Aug-12	15:30	L	U	11.2	888	AC	543	2,000	1.25		N	Y	900026000062696	Y-2011-0133	2011	2011
12-Aug-12	15:30	L	U	11.2	889	AC	614	3,500	1.51		N	Y	965000000002261	Y-2011-0053	2011	2011
12-Aug-12	15:30	L	U	11.2	890	AC	764	6,100	1.37		N	Y	965000000087125	Y-RL10-0150	2010	2010
12-Aug-12	15:30	L	U	11.2	891	AC	568	2,800	1.53	13	N	N	900026000149770	-	2012	-
12-Aug-12	15:30	L	U	11.2	892	AC	569	2,675	1.45		N	N	900026000149725	-	2012	-
12-Aug-12	15:30	L	U	11.2	893	AC	428	975	1.24	6	N	N	900026000149721	-	2012	-
12-Aug-12	15:30	L	U	11.2	894	AC	716	5,300	1.44		N	Y	965000000083857	Y-RL10-0546	2010	2010
12-Aug-12	15:30	L	U	11.2	895	AC	549	2,600	1.57		N	Y	965000000071697	Y-RL10-0232	2010	2010
12-Aug-12	15:30	L	U	11.2	896	AC	605	2,650	1.20		N	Y	965000000092510	Y-RL10-555	2010	2010
12-Aug-12	15:30	L	U	11.2	897	AC	746	5,200	1.25	13	N	N	900026000149704	-	2012	-
12-Aug-12	15:30	L	U	11.2	898	AC	648	4,150	1.53		N	N	900026000149890	-	2012	-

Species Code: AC = Arctic char, LT = lake trout, LW = lake whitefish, RW = round whitefish, CISC = least cisco, SC = saffron cod

Box Location: L = Lower, U = Upper

Fish Direction: D = Downstream, U = Upstream

Y = yes, N = no

Dashes indicate not applicable

Appendix 7. Biological and Tagging Data from Fish Fences in Roberts Outflow, Doris North Project, 2012

Date (dd/mm/yy)	Time (24 hr clock)	Box Location (U/L)	Fish Direction (U/D)	Water Temp (˚C)	Unique Sample No.	Species Code	Fork Length (mm)	Weight (g)	Condition (K)	Age (years)	Mortality (Y/N)	Recap (Y/N)	PIT Tag No.	Floy Tag No.	PIT Tag Year	Floy Tag Year
12-Aug-12	15:30	L	U	11.2	899	AC	609	2,800	1.24		N	N	900026000149788	-	2012	-
12-Aug-12	15:30	L	U	11.2	900	AC	576	2,600	1.36		N	N	900026000149780	-	2012	-
12-Aug-12	15:30	L	U	11.2	901	AC	628	3,500	1.41	7	N	N	900026000149750	-	2012	-
12-Aug-12	15:30	L	U	11.2	902	AC	490	1,600	1.36	8	N	N	900026000149744	-	2012	-
12-Aug-12	15:30	L	U	11.2	903	AC	523	1,900	1.33	12	N	N	900026000149712	-	2012	-
12-Aug-12	15:30	L	U	11.2	904	AC	690	4,500	1.37	9	N	N	900026000149782	-	2012	-
12-Aug-12	15:30	L	U	11.2	905	AC	736	5,200	1.30		N	Y	965000000071418	Y-RL10-0111	2010	2010
12-Aug-12	15:30	L	U	11.2	906	AC	740	5,400	1.33		N	Y	965000000085176	Y-RL10-0402	2010	2010
12-Aug-12	15:30	L	U	11.2	907	AC	574	2,350	1.24	9	N	N	900026000149748	-	2012	-
12-Aug-12	15:30	L	U	11.2	908	AC	514	1,875	1.38	5	N	N	900026000149875	-	2012	-
12-Aug-12	15:30	L	U	11.2	909	AC	447	1,100	1.23		N	Y	900026000062716	Y-2011-0135	2011	2011
12-Aug-12	15:30	L	U	11.2	910	AC	552	2,450	1.46		N	Y	965000000069984	Y-RL10-0349	2010	2010
12-Aug-12	15:30	L	U	11.2	911	AC	581	2,575	1.31		N	Y	900026000149730	Y-RL10-0236	2010	2010
12-Aug-12	15:30	L	U	11.2	912	AC	466	1,375	1.36	5	N	N	900026000149757	-	2012	-
13-Aug-12	11:00	U	U	10.7	913	LT	468	1,300	1.27		N	Y	900026000149698	-	2012	-
13-Aug-12	11:00	U	U	10.7	914	AC	552	2,450	1.46		N	Y	965000000069984	Y-RL10-0349	2010	2010
13-Aug-12	11:00	U	U	10.7	915	AC	574	2,350	1.24		N	Y	900026000149748	-	2012	-
13-Aug-12	11:00	U	U	10.7	916	AC	523	1,900	1.33		N	Y	900026000149712	-	2012	-
13-Aug-12	11:00	L	U	10.7	917	AC	383	600	1.07	7	N	N	900026000149701	-	2012	-
13-Aug-12	11:00	L	U	10.7	918	AC	297	267	1.02		N	Y	965000000068810	-	2012	-
13-Aug-12	11:00	L	U	10.7	919	AC	175	62	1.16		N	N	900026000149737	-	2012	-
13-Aug-12	11:00	U	U	10.7	920	AC	634	3,400	1.33		N	Y	965000000066110	Y-RL10-0106	2010	2010
13-Aug-12	11:00	U	U	10.7	921	AC	543	2,000	1.25		N	Y	900026000062696	Y-2011-0133	2011	2011
13-Aug-12	11:00	U	U	10.7	922	AC	690	4,500	1.37		N	Y	900026000149782	-	2012	-
13-Aug-12	11:00	U	U	10.7	923	AC	545	2,000	1.24		N	Y	900026000149763	-	2012	-
13-Aug-12	11:00	U	U	10.7	924	AC	466	1,375	1.36		N	Y	900026000149757	-	2012	-
14-Aug-12	9:20	L	U	10.4	925	AC	260	171	0.97		N	N	900026000149822	-	2012	-
14-Aug-12	9:20	L	U	10.4	926	AC	239	150	1.10		N	N	900026000149883	-	2012	-
14-Aug-12	9:20	L	U	10.4	927	AC	274	184	0.89		N	N	900026000149833	-	2012	-
14-Aug-12	9:20	L	U	10.4	928	AC	216	134	1.33		N	N	900026000149869	-	2012	-
14-Aug-12	9:20	L	U	10.4	929	AC	224	128	1.14	5	N	N	900026000149799	-	2012	-
14-Aug-12	9:20	L	U	10.4	930	AC	265	200	1.07	4	N	N	900026000149845	-	2012	-
14-Aug-12	9:20	U	U	10.4	931	AC	297	267	1.02		N	Y	965000000068810	-	2012	-
14-Aug-12	9:20	U	U	10.4	932	AC	428	975	1.24		N	Y	900026000149721	-	2012	-
14-Aug-12	9:20	U	U	10.4	933	LT	269	208	1.07		N	N	900026000149800	-	2012	-
14-Aug-12	9:20	U	U	10.4	934	LT	312	357	1.18		N	N	900026000149813	-	2012	-
14-Aug-12	9:20	U	U	10.4	935	AC	282	278	1.24	4	N	N	900026000149760	-	2012	-
14-Aug-12	9:20	U	U	10.4	936	AC	241	169	1.21		N	N	900026000149843	-	2012	-
16-Aug-12	17:10	U	U	9.3	937	AC	224	141	1.25		N	Y	900026000149796	-	2012	-
16-Aug-12	17:10	U	U	9.3	938	AC	265	93	0.50		N	Y	900026000149747	-	2012	-
17-Aug-12	9:30	L	U	9.4	939	AC	765	4,530	1.01		N	Y	965000000080866	Y-RL10-0132	2010	2010
17-Aug-12	9:30	L	U	9.4	940	AC	684	3,550	1.11	11	N	N	900026000149851	-	2012	-
17-Aug-12	9:30	L	U	9.4	941	AC	605	3,050	1.38	8	N	N	900026000149811	-	2012	-
17-Aug-12	9:30	L	U	9.4	942	AC	470	1,150	1.11	7	N	N	900026000149849	-	2012	-
17-Aug-12	9:30	L	U	9.4	943	AC	701	4,002	1.16	10	N	N	900026000149765	-	2012	-
17-Aug-12	9:30	L	U	9.4	944	AC	650	2,650	0.96	9	N	N	900026000149804	-	2012	-
17-Aug-12	9:30	L	U	9.4	945	AC	462	1,050	1.06	10	N	N	900026000149812	-	2012	-
17-Aug-12	9:30	L	U	9.4	946	AC	583	2,300	1.16	9	N	N	900026000149841	-	2012	-
17-Aug-12	9:30	L	U	9.4	947	AC	324	353	1.04	3	N	N	900026000149867	-	2012	-
17-Aug-12	9:30	L	U	9.4	948	AC	785	8,850	1.83	13	N	N	900026000149870	-	2012	-
17-Aug-12	9:30	L	U	9.4	949	AC	719	5,450	1.47	8	N	N	900026000149831	-	2012	-
17-Aug-12	9:30	L	U	9.4	950	AC	556	2,250	1.31	8	N	N	900026000149842	-	2012	-
17-Aug-12	9:30	L	U	9.4	951	AC	588	1,000	0.49	7	N	N	900026000149859	-	2012	-
17-Aug-12	9:30	L	U	9.4	952	AC	764	6,100	1.37		N	Y	965000000089013	Y-RL10-0109	2010	2010
17-Aug-12	9:30	L	U	9.4	953	AC	540	2,100	1.33	7	N	N	900026000149889	-	2012	-
17-Aug-12	9:30	L	U	9.4	954	AC	588	2,500	1.23	9	N	N	900026000149835	-	2012	-
17-Aug-12	9:30	L	U	9.4	955	AC	892	8,450	1.19	14	N	N	900026000149837	-	2012	-
17-Aug-12	9:30	L	U	9.4	956	AC	428	800	1.02	6	N	N	900026000149794	-	2012	-
17-Aug-12	9:30	L	U	9.4	957	AC	398	800	1.27	6	N	N	900026000149827	-	2012	-
17-Aug-12	9:30	L	U	9.4	958	AC	555	2,000	1.17		N	N	900026000149801	-	2012	-
17-Aug-12	9:30	L	U	9.4	959	AC	475	1,300	1.21	6	N	N	900026000149834	-	2012	-
17-Aug-12	9:30	L	U	9.4	960	AC	295	250	0.97		N	N	900026000149836	-	2012	-
17-Aug-12	9:30	L	U	9.4	961	AC	596	1,100	0.52		N	N	900026000149830	-	2012	-
17-Aug-12	9:30	L	U	9.4	962	AC	284	240	1.05		N	Y	965000000002502	-	2012	-
17-Aug-12	15:00	U	U	9.4	963	AC	-	-	-		N	Y	900026000149788	-	2012	-
17-Aug-12	15:00	U	U	9.4	964	AC	408	611	0.90	7	N	N	900026000149847	-	2012	-
17-Aug-12	15:00	U	U	9.4	965	AC	307	324	1.12		N	N	900026000149853	-	2012	-
17-Aug-12	15:00	U	U	9.4	966	AC	-	-	-		N	Y	900026000149780	-	2012	-
17-Aug-12	15:00	U	U	9.4	967	AC	-	-	-		N	Y	900026000062716	Y-2011-0135	2011	2011
17-Aug-12	15:00	U	U	9.4	968	AC	-	-	-		N	Y	900026000149812	-	2012	-
17-Aug-12	15:00	U	U	9.4	969	AC	240	122	0.88		N	N	900026000149846	-	2012	-
17-Aug-12	15:00	U	U	9.4	970	AC	217	121	1.18		N	N	900026000149797	-	2012	-
17-Aug-12	15:00	U	U	9.4	971	LT	334	400	1.07		N	N	900026000149828	-	2012	-
17-Aug-12	15:00	U	U	9.4	972	AC	341	452	1.14		N	N	900026000149844	-	2012	-
17-Aug-12	15:00	U	U	9.4	973	AC	-	-	-		N	Y	900026000149804	-	2012	-
17-Aug-12	15:00	U	U	9.4	974	AC	-	-	-		N	Y	965000000069447	Y-RL10-0827	2010	2010
17-Aug-12	15:00	U	U	9.4	975	AC	-	-	-		N	Y	965000000092510	Y-RL10-0555	2010	2010
17-Aug-12	15:00	U	U	9.4	976	AC	-	-	-		N	Y	900026000149725	-	2012	-
17-Aug-12	15:00	U	U	9.4	977	AC	-	-	-		N	Y	900026000149875	-	2012	-
17-Aug-12	15:00	U	U	9.4	978	AC	-	-	-		N	Y	900026000149799	-	2012	-
17-Aug-12	15:00	U	U	9.4	979	AC	312	291	0.96		N	N	900026000149840	-	2012	-
17-Aug-12	15:00	U	U	9.4	980	AC	-	-	-		N	Y	900026000149744	-	2012	-
17-Aug-12	15:00	U	U	9.4	981	AC	-	-	-		N	Y	900026000149842	-	2012	-
18-Aug-12	9:30	U	U	10.3	982	AC	583	2,300	1.16		N	Y	900026000149841	-	2012	-
18-Aug-12	9:30	U	U	10.3	983	AC	684	3,550	1.11		N	Y	900026000149851	-	2012	-
18-Aug-12	9:30	U	U	10.3	984	AC	248	180	1.18		N	N	900026000149816	-	2012	-
18-Aug-12	9:30	L	U	10.3	985	AC	253	181	1.12	3	N	N	900026000149858	-	2012	-
18-Aug-12	9:30	L	U	10.3	986	AC	263	211	1.16		N	N	900026000149848	-	2012	-
18-Aug-12	9:30	L	U	10.3	987	AC	219	101	0.96		N	N	900026000149832	-	2012	-
18-Aug-12	9:30	L	U	10.3	988	LT	487	1,300	1.13		N	Y	965000000071381	Y-RL10-0435	2010	2010
18-Aug-12	14:51	U	U	10.3	989	AC	-	-	-		N	Y	900026000149887	-	2012	-
18-Aug-12	14:51	U	U	10.3	990	AC	257	175	1.03		N	N	900026000149839	-	2012	-
18-Aug-12	14:51	L	U	10.3	991	AC	517	1,900	1.37	8	N	N	900026000149823	-	2012	-
18-Aug-12	14:51	L	U	10.3	992	AC	346	450	1.09	4	N	N	900026000149716	-	2012	-
18-Aug-12	14:51	L	U	10.3	993	AC	401	802	1.24	6	N	N	900026000149729	-	2012	-
18-Aug-12	14:51	L	U	10.3	994	AC	459	1,150	1.19	13	N	N	900026000149857	-	2012	-
18-Aug-12	14:51	L	U	10.3	995	AC	214	94	0.96		N	N	900026000149852	-	2012	-
18-Aug-12	14:51	L	U	10.3	996	AC	416	900	1.25	4	N	N	900026000149806	-	2012	-
18-Aug-12	14:51	L	U	10.3	997	AC	406	800	1.20		N	N	900026000149814	-	2012	-

Species Code: AC = Arctic char, LT = lake trout, LW = lake whitefish, RW = round whitefish, CISC = least cisco, SC = saffron cod

Box Location: L = Lower, U = Upper

Fish Direction: D = Downstream, U = Upstream

Y = yes, N = no

Dashes indicate not applicable

Appendix 7. Biological and Tagging Data from Fish Fences in Roberts Outflow, Doris North Project, 2012

Date (dd/mm/yy)	Time (24 hr clock)	Box Location (U/L)	Fish Direction (U/D)	Water Temp (˚C)	Unique Sample No.	Species Code	Fork Length (mm)	Weight (g)	Condition (K)	Age (years)	Mortality (Y/N)	Recap (Y/N)	PIT Tag No.	Floy Tag No.	PIT Tag Year	Floy Tag Year
18-Aug-12	14:51	L	U	10.3	998	AC	332	450	1.23		N	N	900026000149798	-	2012	-
18-Aug-12	14:51	L	U	10.3	999	AC	233	126	1.00		N	Y	900026000149675	-	2012	-
18-Aug-12	14:51	L	U	10.3	1000	AC	345	500	1.22		N	N	900026000149854	-	2012	-
18-Aug-12	14:51	L	U	10.3	1001	AC	462	1,000	1.01		N	Y	965000000069505	Y-RL10-0101	2010	2010
18-Aug-12	14:51	L	U	10.3	1002	AC	400	750	1.17	6	N	N	900026000149850	-	2012	-
18-Aug-12	14:51	L	U	10.3	1003	LT	210	104	1.12		N	N	900026000149861	-	2012	-
18-Aug-12	14:51	L	U	10.3	1004	AC	456	1,000	1.05		N	Y	900026000062694	Y-2011-0111	2011	2011
18-Aug-12	14:51	U	U	10.3	1005	AC	-	-	-		N	Y	900026000149770	-	2012	-
18-Aug-12	14:51	U	U	10.3	1006	AC	-	-	-		N	Y	965000000002502	-	2012	-
18-Aug-12	14:51	U	U	10.3	1007	LT	254	172	1.05		N	N	900026000149809	-	2012	-
19-Aug-12	14:50	L	U	10.6	1008	AC	208	122	1.36		N	N	900026000149815	-	2012	-
19-Aug-12	14:50	L	U	10.6	1009	AC	266	204	1.08		N	Y	965000000070438	-	2012	-
19-Aug-12	14:50	L	U	10.6	1010	AC	260	199	1.13		N	N	900026000149810	-	2012	-
19-Aug-12	14:50	L	U	10.6	1011	AC	271	201	1.01		N	N	900026000149882	-	2012	-
19-Aug-12	14:50	L	U	10.6	1012	AC	279	237	1.09		N	N	900026000149871	-	2012	-
19-Aug-12	14:50	L	U	10.6	1013	AC	302	287	1.04	4	N	N	900026000149824	-	2012	-
19-Aug-12	14:50	U	U	10.6	1014	AC	-	-	-		N	Y	900026000149777	-	2012	-
19-Aug-12	14:50	U	U	10.6	1015	AC	-	-	-		N	Y	900026000149806	-	2012	-
19-Aug-12	14:50	U	U	10.6	1016	AC	-	-	-		N	Y	900026000149833	-	2012	-
19-Aug-12	14:50	U	U	10.6	1017	AC	-	-	-		N	Y	900026000149867	-	2012	-
19-Aug-12	14:50	U	U	10.6	1018	AC	-	-	-		N	Y	965000000069505	Y-RL10-0101	2010	2010
19-Aug-12	14:50	U	U	10.6	1019	AC	364	450	0.93		N	N	900026000149734	-	2012	-
19-Aug-12	14:50	U	U	10.6	1020	AC	-	-	-		N	Y	900026000149794	-	2012	-
19-Aug-12	14:50	U	U	10.6	1021	AC	211	91	0.97		N	N	900026000149860	-	2012	-
19-Aug-12	14:50	U	U	10.6	1022	AC	330	435	1.21	4	N	N	900026000149792	-	2012	-
21-Aug-12	9:00	L	U	9.4	1023	AC	243	159	1.11		N	N	900026000149863	-	2012	-
21-Aug-12	9:00	L	U	9.4	1024	AC	265	193	1.04		N	N	900026000149873	-	2012	-
21-Aug-12	9:00	L	U	9.4	1025	AC	283	236	1.04		N	N	900026000149838	-	2012	-
21-Aug-12	9:00	L	U	9.4	1026	AC	295	272	1.06		N	N	900026000149762	-	2012	-
21-Aug-12	9:00	U	U	9.4	1027	AC	-	-	-		N	N	900026000149795	-	2012	-
22-Aug-12	9:00	U	U	9.2	1028	AC	295	272	1.06		N	Y	900026000149762	-	2012	-
22-Aug-12	9:00	U	U	9.2	1029	AC	-	-	-		N	Y	900026000149832	-	2012	-
22-Aug-12	9:00	U	U	9.2	1030	AC	268	197	1.02		N	N	900026000149829	-	2012	-
22-Aug-12	9:00	U	U	9.2	1031	AC	261	189	1.06		N	N	900026000149821	-	2012	-
22-Aug-12	9:00	U	U	9.2	1032	AC	555	2,000	1.17		N	Y	900026000149801	-	2012	-
23-Aug-12	8:45	L	U	9.4	1033	AC	282	213	0.95		N	N	900026000149808	-	2012	-
23-Aug-12	8:45	L	U	9.4	1034	LW	178	45	0.80		N	N	-	-	-	-
23-Aug-12	8:45	L	U	9.4	1035	AC	260	198	1.13		N	N	900026000149872	-	2012	-
23-Aug-12	8:45	U	U	9.4	1036	AC	540	2,100	1.33		N	Y	900026000149889	-	2012	-
23-Aug-12	8:45	U	U	9.4	1037	LW	178	45	0.80		N	Y	-	-	-	-
24-Aug-12	11:35	U	U	9.7	1038	AC	266	252	1.34		N	N	900026000149793	-	2012	-
24-Aug-12	11:35	U	U	9.7	1039	AC	195	93	1.25		N	N	900026000149809	-	2012	-
24-Aug-12	11:35	U	U	9.7	1040	AC	-	-	-		N	Y	900026000149882	-	2012	-
24-Aug-12	11:35	U	U	9.7	1041	AC	222	117	1.07		N	N	900026000149856	-	2012	-
24-Aug-12	11:35	U	U	9.7	1042	AC	218	111	1.07		N	N	900026000149784	-	2012	-
25-Aug-12	8:25	L	U	10.4	1043	AC	294	274	1.08	5	N	N	900026000149865	-	2012	-
25-Aug-12	8:25	L	U	10.4	1044	AC	264	193	1.05		N	N	900026000149825	-	2012	-
25-Aug-12	8:25	L	U	10.4	1045	AC	226	109	0.94		N	N	900026000149819	-	2012	-
25-Aug-12	8:25	L	U	10.4	1046	AC	195	75	1.01		N	N	900026000149892	-	2012	-
25-Aug-12	8:25	L	U	10.4	1047	AC	330	350	0.97		N	Y	900026000149534	-	2012	-
25-Aug-12	8:25	L	U	10.4	1048	AC	313	425	1.39		N	N	900026000149826	-	2012	-
25-Aug-12	8:25	L	U	10.4	1049	AC	291	211	0.86		N	N	900026000149818	-	2012	-
25-Aug-12	8:25	L	U	10.4	1050	AC	242	129	0.91		N	N	900026000149855	-	2012	-
25-Aug-12	8:25	L	U	10.4	1051	AC	252	169	1.06	4	N	N	900026000149862	-	2012	-
25-Aug-12	10:10	U	U	10.4	1052	AC	265	205	1.10		N	N	900026000149820	-	2012	-
25-Aug-12	10:35	U	D	10.4	1053	LT	-	-	-		N	Y	965000000001903	Y-2011-0047	2012	2011
25-Aug-12	11:00	U	U	10.4	1054	LT	-	-	-		N	Y	965000000001903	Y-2011-0047	2012	2011
25-Aug-12	11:15	L	U	10.4	1055	AC	374	500	0.96	5	N	N	900026000149864	-	2012	-
25-Aug-12	11:15	L	U	10.4	1056	AC	373	550	1.06		N	Y	965000000072273	-	2012	-
25-Aug-12	11:15	L	U	10.4	1057	AC	352	450	1.03		N	N	900026000149876	-	2012	-
25-Aug-12	13:00	L	U	10.4	1058	AC	209	85	0.93		N	N	900026000149922	-	2012	-
25-Aug-12	14:00	U	U	10.4	1059	AC	205	106	1.23		N	N	900026000149950	-	2012	-
25-Aug-12	14:00	U	U	10.4	1060	AC	253	155	0.96		N	N	900026000149965	-	2012	-
25-Aug-12	14:00	U	U	10.4	1061	AC	-	-	-		N	Y	900026000149873	-	2012	-
25-Aug-12	14:00	U	U	10.4	1062	AC	-	-	-		N	Y	900026000149824	-	2012	-
25-Aug-12	14:00	U	U	10.4	1063	AC	204	93	1.10	3	N	N	900026000149965	-	2012	-
25-Aug-12	14:00	U	U	10.4	1064	AC	244	161	1.11		N	N	900026000149923	-	2012	-
25-Aug-12	14:00	U	U	10.4	1065	AC	-	-	-		N	Y	900026000149534	-	2012	-
25-Aug-12	14:00	L	U	10.4	1066	AC	332	436	1.19		N	N	900026000149985	-	2012	-
25-Aug-12	14:00	L	U	10.4	1067	AC	279	211	0.97		N	N	900026000149802	-	2012	-
25-Aug-12	14:00	L	U	10.4	1068	AC	267	176	0.92		N	N	900026000149907	-	2012	-
25-Aug-12	14:00	L	U	10.4	1069	AC	366	600	1.22		N	N	900026000149933	-	2012	-
25-Aug-12	14:00	L	U	10.4	1070	AC	286	243	1.04		N	N	900026000149936	-	2012	-
25-Aug-12	14:00	L	U	10.4	1071	AC	196	87	1.16		N	N	900026000149902	-	2012	-
25-Aug-12	14:00	L	U	10.4	1072	AC	437	950	1.14		N	Y	900026000149579	-	2012	-
26-Aug-12	8:36	L	U	11.1	1073	AC	564	2,100	1.17	7	N	N	900026000149988	-	2012	-
26-Aug-12	8:36	L	U	11.1	1074	AC	575	2,200	1.16	9	N	N	900026000149930	-	2012	-
26-Aug-12	8:36	L	U	11.1	1075	AC	667	4,250	1.43	8	N	N	900026000149896	-	2012	-
26-Aug-12	8:36	L	U	11.1	1076	AC	758	5,100	1.17	8	N	N	900026000149958	-	2012	-
26-Aug-12	8:36	L	U	11.1	1077	AC	568	2,400	1.31	9	N	N	900026000149790	-	2012	-
26-Aug-12	8:36	L	U	11.1	1078	AC	664	3,800	1.30		N	N	900026000149991	-	2012	-
26-Aug-12	8:36	L	U	11.1	1079	AC	583	2,400	1.21	8	N	N	900026000149935	-	2012	-
26-Aug-12	8:36	L	U	11.1	1080	AC	497	1,500	1.22		N	Y	965000000066109	Y-RL10-0847	2010	2010
26-Aug-12	8:36	L	U	11.1	1081	AC	611	3,250	1.42		N	N	900026000149908	-	2012	-
26-Aug-12	8:36	L	U	11.1	1082	AC	578	2,300	1.19		N	N	900026000062772	-	2012	-
26-Aug-12	8:36	L	U	11.1	1083	AC	642	3,000	1.13		N	N	900026000149903	-	2012	-
26-Aug-12	8:36	L	U	11.1	1084	AC	728	5,800	1.50	8	N	N	900026000149944	-	2012	-
26-Aug-12	8:36	L	U	11.1	1085	AC	548	2,200	1.34		N	N	900026000149979	-	2012	-
26-Aug-12	8:36	L	U	11.1	1086	AC	671	3,700	1.22	7	N	N	900026000149972	-	2012	-
26-Aug-12	8:36	L	U	11.1	1087	AC	564	2,300	1.28	11	N	N	900026000149920	-	2012	-
26-Aug-12	8:36	L	U	11.1	1088	AC	608	2,700	1.20		N	N	900026000149947	-	2012	-
26-Aug-12	8:36	L	U	11.1	1089	AC	563	1,900	1.06	7	N	N	900026000149968	-	2012	-
26-Aug-12	8:36	L	U	11.1	1090	AC	782	6,400	1.34		N	Y	965000000092281	Y-RL10-0825	2010	2010
26-Aug-12	8:36	L	U	11.1	1091	AC	827	5,500	0.97	10	N	Y	900026000149939	ILDER 780-48303⁴	2012	UNK
26-Aug-12	8:36	L	U	11.1	1092	AC	811	7,000	1.31	5	N	Y	965000000068374	Y-RL10-0842	2010	2010
26-Aug-12	8:36	L	U	11.1	1093	AC	619	2,900	1.22		N	N	900026000149897	-	2012	-
26-Aug-12	8:36	L	U	11.1	1094	AC	610	3,000	1.32		N	N	900026000149934	-	2012	-
26-Aug-12	8:36	L	U	11.1	1095	AC	609	2,850	1.26	8	N	N	900026000149913	-	2012	-
26-Aug-12	8:36	L	U	11.1	1096	AC	617	3,100	1.32		N	N	900026000149966	-	2012	-

Species Code: AC = Arctic char, LT = lake trout, LW = lake whitefish, RW = round whitefish, CISC = least cisco, SC = saffron cod

Box Location: L = Lower, U = Upper

Fish Direction: D = Downstream, U = Upstream

Y = yes, N = no

Dashes indicate not applicable

Appendix 7. Biological and Tagging Data from Fish Fences in Roberts Outflow, Doris North Project, 2012

Date (dd/mm/yy)	Time (24 hr clock)	Box Location (U/L)	Fish Direction (U/D)	Water Temp (˚C)	Unique Sample No.	Species Code	Fork Length (mm)	Weight (g)	Condition (K)	Age (years)	Mortality (Y/N)	Recap (Y/N)	PIT Tag No.	Floy Tag No.	PIT Tag Year	Floy Tag Year
26-Aug-12	8:36	L	U	11.1	1097	AC	505	1,650	1.28		N	N	900026000149901	-	2012	-
26-Aug-12	8:36	L	U	11.1	1098	AC	477	1,400	1.29	6	N	N	900026000149942	-	2012	-
26-Aug-12	8:36	L	U	11.1	1099	AC	542	2,250	1.41	6	N	N	900026000149931	-	2012	-
26-Aug-12	8:36	L	U	11.1	1100	AC	576	2,550	1.33	8	N	N	900026000149943	-	2012	-
26-Aug-12	8:36	L	U	11.1	1101	AC	557	2,350	1.36		N	N	900026000149961	-	2012	-
26-Aug-12	8:36	L	U	11.1	1102	AC	698	4,600	1.35	12	N	N	900026000149918	-	2012	-
26-Aug-12	8:36	L	U	11.1	1103	AC	600	2,650	1.23	8	N	N	900026000149974	-	2012	-
26-Aug-12	8:36	L	U	11.1	1104	AC	471	1,100	1.05	7	N	N	900026000149952	-	2012	-
26-Aug-12	8:36	L	U	11.1	1105	AC	628	3,400	1.37		N	N	900026000149912	-	2012	-
26-Aug-12	8:36	L	U	11.1	1106	AC	829	8,050	1.41		N	Y	965000000070942	Y-RL10-0401	2010	2010
26-Aug-12	8:36	L	U	11.1	1107	AC	542	2,450	1.54	7	N	N	900026000149915	-	2012	-
26-Aug-12	8:36	L	U	11.1	1108	AC	659	3,500	1.22	10	N	N	900026000149969	-	2012	-
26-Aug-12	8:36	L	U	11.1	1109	AC	485	1,600	1.40	15	N	N	900026000149970	-	2012	-
26-Aug-12	8:36	L	U	11.1	1110	AC	634	3,750	1.47	7	N	N	900026000149928	-	2012	-
26-Aug-12	8:36	L	U	11.1	1111	AC	772	5,100	1.11	10	N	N	900026000149949	-	2012	-
26-Aug-12	8:36	L	U	11.1	1112	AC	645	3,600	1.34	7	N	N	900026000149940	-	2012	-
26-Aug-12	8:36	L	U	11.1	1113	AC	537	2,000	1.29	8	N	N	900026000149956	-	2012	-
26-Aug-12	8:36	L	U	11.1	1114	AC	442	1,000	1.16		N	Y	900026000149628	-	2012	-
26-Aug-12	8:36	L	U	11.1	1115	AC	666	3,700	1.25		N	Y	985120031624204	-	2007	-
26-Aug-12	8:36	L	U	11.1	1116	AC	545	2,000	1.24		N	Y	965000000070361	Y-RL10-0570	2010	2010
26-Aug-12	8:36	L	U	11.1	1117	AC	618	2,500	1.06		N	Y	-	G-4245	-	2004
26-Aug-12	8:36	L	U	11.1	1118	AC	509	1,700	1.29	5	N	N	900026000149975	-	2012	-
26-Aug-12	8:36	L	U	11.1	1119	AC	486	1,500	1.31	7	N	N	900026000149893	-	2012	-
26-Aug-12	8:36	L	U	11.1	1120	AC	463	1,200	1.21		N	Y	900026000149601	-	2012	-
26-Aug-12	8:36	L	U	11.1	1121	AC	446	1,200	1.35		N	Y	900026000149662	-	2012	-
26-Aug-12	8:36	L	U	11.1	1122	AC	582	2,600	1.32	8	N	N	900026000149948	-	2012	-
26-Aug-12	8:36	L	U	11.1	1123	AC	465	1,350	1.34	5	N	N	900026000149959	-	2012	-
26-Aug-12	8:36	L	U	11.1	1124	AC	532	1,850	1.23	8	N	N	900026000149963	-	2012	-
26-Aug-12	8:36	L	U	11.1	1125	AC	519	1,900	1.36	6	N	N	900026000149964	-	2012	-
26-Aug-12	8:36	L	U	11.1	1126	AC	564	2,500	1.39	12	N	N	900026000149909	-	2012	-
26-Aug-12	8:36	L	U	11.1	1127	AC	452	1,200	1.30	9	N	N	900026000149987	-	2012	-
26-Aug-12	8:36	L	U	11.1	1128	AC	542	2,300	1.44	7	N	N	900026000149955	-	2012	-
26-Aug-12	8:36	L	U	11.1	1129	AC	473	1,400	1.32	7	N	N	900026000149803	-	2012	-
26-Aug-12	8:36	L	U	11.1	1130	AC	558	2,350	1.35	8	N	N	900026000149962	-	2012	-
26-Aug-12	8:36	L	U	11.1	1131	AC	398	850	1.35		N	Y	965000000003259	-	2012	-
26-Aug-12	8:36	L	U	11.1	1132	AC	529	2,100	1.42	8	N	N	900026000149990	-	2012	-
26-Aug-12	8:36	L	U	11.1	1133	AC	372	650	1.26		N	N	900026000149905	-	2012	-
26-Aug-12	8:36	L	U	11.1	1134	AC	489	1,500	1.28	7	N	N	900026000149984	-	2012	-
26-Aug-12	8:36	L	U	11.1	1135	AC	483	1,500	1.33	8	N	N	900026000149954	-	2012	-
26-Aug-12	8:36	L	U	11.1	1136	AC	252	159	0.99		N	N	900026000149926	-	2012	-
26-Aug-12	8:36	L	U	11.1	1137	AC	380	800	1.46		N	N	900026000149921	-	2012	-
26-Aug-12	8:36	L	U	11.1	1138	AC	500	1,400	1.12		N	N	900026000149945	-	2012	-
26-Aug-12	8:36	L	U	11.1	1139	AC	474	1,450	1.36	9	N	N	900026000149895	-	2012	-
26-Aug-12	8:36	L	U	11.1	1140	AC	367	600	1.21	5	N	N	900026000149925	-	2012	-
26-Aug-12	8:36	L	U	11.1	1141	AC	344	550	1.35		N	N	900026000149981	-	2012	-
26-Aug-12	8:36	L	U	11.1	1142	AC	540	2,000	1.27	6	N	N	900026000149978	-	2012	-
26-Aug-12	8:36	U	U	11.1	1143	AC	-	-	-		N	Y	900026000062718	-	2012	-
26-Aug-12	8:36	U	U	11.1	1144	AC	-	-	-		N	Y	900026000149862	-	2012	-
26-Aug-12	8:36	U	U	11.1	1145	AC	-	-	-		N	Y	900026000149819	-	2012	-
26-Aug-12	8:36	U	U	11.1	1146	AC	243	126	0.88	4	N	N	900026000149973	-	2012	-
28-Aug-12	8:25	L	U	10.4	1147	AC	222	109	1.00		N	N	900026000149932	-	2012	-
28-Aug-12	8:25	L	U	10.4	1148	AC	216	94	0.93		N	N	900026000149899	-	2012	-
28-Aug-12	8:25	L	U	10.4	1149	AC	172	49	0.96	4	N	N	900026000149904	-	2012	-
28-Aug-12	8:25	L	U	10.4	1150	AC	260	182	1.04		N	N	900026000149941	-	2012	-
28-Aug-12	8:25	L	U	10.4	1151	AC	257	164	0.97	4	N	N	900026000149894	-	2012	-
28-Aug-12	8:25	L	U	10.4	1152	AC	238	119	0.88		N	N	900026000149977	-	2012	-
28-Aug-12	8:25	L	U	10.4	1153	AC	222	87	0.80	4	N	N	900026000149910	-	2012	-
28-Aug-12	8:25	L	U	10.4	1154	AC	260	117	0.67		N	N	900026000149929	-	2012	-
28-Aug-12	8:25	L	U	10.4	1155	AC	266	179	0.95		N	N	900026000149898	-	2012	-
28-Aug-12	8:25	L	U	10.4	1156	AC	300	284	1.05		N	N	900026000149906	-	2012	-
28-Aug-12	8:25	L	U	10.4	1157	AC	224	100	0.89		N	N	900026000149917	-	2012	-
28-Aug-12	8:25	L	U	10.4	1158	AC	252	171	1.07		N	N	900026000149980	-	2012	-
28-Aug-12	8:25	L	U	10.4	1159	AC	261	192	1.08		N	N	900026000149951	-	2012	-
28-Aug-12	8:25	L	U	10.4	1160	AC	199	98	1.24		N	N	900026000149982	-	2012	-
28-Aug-12	8:25	L	U	10.4	1161	AC	241	155	1.11		N	N	900026000149989	-	2012	-
28-Aug-12	8:25	L	U	10.4	1162	AC	270	216	1.10		N	N	900026000149938	-	2012	-
28-Aug-12	8:25	L	U	10.4	1163	AC	241	163	1.16	3	N	N	900026000149953	-	2012	-
28-Aug-12	8:25	L	U	10.4	1164	AC	239	142	1.04		N	N	900026000149976	-	2012	-
28-Aug-12	8:25	L	U	10.4	1165	AC	233	118	0.93		N	N	900026000149900	-	2012	-
28-Aug-12	8:25	L	U	10.4	1166	AC	191	58	0.83		N	N	900026000149983	-	2012	-
28-Aug-12	8:25	L	U	10.4	1167	AC	303	131	0.47	3	N	N	-	Y-2011-0651	-	2012
28-Aug-12	8:25	L	U	10.4	1168	AC	244	154	1.06	3	N	N	-	Y-2011-0652	-	2012
28-Aug-12	8:25	L	U	10.4	1169	AC	201	83	1.02	4	N	N	-	Y-2011-0653	-	2012
28-Aug-12	11:45	L	U	10.4	1170	AC	236	121	0.92	4	N	N	-	Y-2011-0654	-	2012
28-Aug-12	11:45	L	U	10.4	1171	AC	258	181	1.05		N	N	-	Y-2011-0655	-	2012
28-Aug-12	11:45	L	U	10.4	1172	AC	240	155	1.12		N	N	-	Y-2011-0656	-	2012
28-Aug-12	11:45	L	U	10.4	1173	AC	246	151	1.01		N	N	-	Y-2011-0657	-	2012
28-Aug-12	11:45	L	U	10.4	1174	AC	245	131	0.89		N	N	-	Y-2011-0658	-	2012
28-Aug-12	11:45	L	U	10.4	1175	AC	182	51	0.85	3	N	N	900026000149916	-	2012	-
28-Aug-12	11:45	L	U	10.4	1176	AC	204	84	0.99		N	N	900026000149927	-	2012	-
28-Aug-12	15:00	U	U	10.4	1177	AC	-	-	-		N	Y	900026000149921	-	2012	-
28-Aug-12	15:00	U	U	10.4	1178	AC	-	-	-		N	Y	965000000065215	-	-	-
28-Aug-12	15:00	U	U	10.4	1179	AC	-	-	-		N	Y	900026000149929	-	2012	-
28-Aug-12	15:00	U	U	10.4	1180	AC	-	-	-		N	Y	900026000149953	-	2012	-
28-Aug-12	15:00	U	U	10.4	1181	AC	239	136	1.00		N	N	-	Y-2011-0500	-	2012
28-Aug-12	15:00	U	U	10.4	1182	AC	234	122	0.95		N	N	-	Y-2011-0499	-	2012
28-Aug-12	15:00	U	U	10.4	1183	AC	214	107	1.09		N	N	-	Y-2011-0498	-	2012
28-Aug-12	15:00	U	U	10.4	1184	AC	239	141	1.03		N	N	-	Y-2011-0497	-	2012
28-Aug-12	15:00	U	U	10.4	1185	AC	224	116	1.03		N	N	-	Y-2011-0496	-	2012
28-Aug-12	15:00	U	U	10.4	1186	AC	232	138	1.11		N	N	900026000149924	-	2012	-
28-Aug-12	15:00	U	U	10.4	1187	AC	202	85	1.03	3	N	N	900026000149937	-	2012	-
28-Aug-12	15:00	U	U	10.4	1188	AC	269	212	1.09		N	N	-	Y-2011-0495	-	2012
28-Aug-12	15:00	U	U	10.4	1189	AC	235	141	1.09		N	N	-	Y-2011-0494	-	2012
28-Aug-12	15:00	U	U	10.4	1190	AC	247	141	0.94		N	N	-	Y-2011-0493	-	2012
28-Aug-12	15:00	U	U	10.4	1191	AC	239	148	1.08		N	N	-	Y-2011-0492	-	2012
28-Aug-12	15:00	U	U	10.4	1192	AC	310	328	1.10		N	N	-	Y-2011-0491	-	2012
28-Aug-12	15:00	U	U	10.4	1193	AC	207	98	1.10		N	N	-	Y-2011-0490	-	2012
28-Aug-12	15:00	U	U	10.4	1194	AC	229	123	1.02		N	N	-	Y-2011-0489	-	2012
28-Aug-12	15:00	U	U	10.4	1195	AC	208	94	1.04		N	N	-	Y-2011-0488	-	2012

Species Code: AC = Arctic char, LT = lake trout, LW = lake whitefish, RW = round whitefish, CISC = least cisco, SC = saffron cod

Box Location: L = Lower, U = Upper

Fish Direction: D = Downstream, U = Upstream

Y = yes, N = no

Dashes indicate not applicable

Appendix 7. Biological and Tagging Data from Fish Fences in Roberts Outflow, Doris North Project, 2012

Date (dd/mm/yy)	Time (24 hr clock)	Box Location (U/L)	Fish Direction (U/D)	Water Temp (˚C)	Unique Sample No.	Species Code	Fork Length (mm)	Weight (g)	Condition (K)	Age (years)	Mortality (Y/N)	Recap (Y/N)	PIT Tag No.	Floy Tag No.	PIT Tag Year	Floy Tag Year
28-Aug-12	15:00	U	U	10.4	1196	AC	204	100	1.18		N	N	900026000149967	-	2012	-
28-Aug-12	15:00	L	U	10.4	1197	AC	-	-	-		N	Y	900026000062774	-	2012	-
28-Aug-12	15:00	L	U	10.4	1198	AC	-	-	-		N	Y	900026000149836	-	2012	-
28-Aug-12	15:00	L	U	10.4	1199	AC	259	174	1.00		N	N	-	Y-2011-0487	-	2012
29-Aug-12	14:00	L	U	10.5	1200	AC	278	237	1.10		N	N	-	Y-2011-0486	-	2012
29-Aug-12	14:00	L	U	10.5	1201	AC	347	478	1.14		N	N	-	Y-2011-0485	-	2012
29-Aug-12	14:00	L	U	10.5	1202	AC	345	377	0.92	9	N	N	-	Y-2011-0484	-	2012
29-Aug-12	14:00	L	U	10.5	1203	AC	336	393	1.04	4	N	N	-	Y-2011-0483	-	2012
29-Aug-12	14:00	L	U	10.5	1204	AC	279	233	1.07		N	N	-	Y-2011-0482	-	2012
29-Aug-12	14:00	L	U	10.5	1205	AC	294	276	1.09	3	N	N	-	Y-2011-0481	-	2012
29-Aug-12	14:00	L	U	10.5	1206	AC	278	214	1.00		N	N	-	Y-2011-0480	-	2012
29-Aug-12	14:00	L	U	10.5	1207	AC	254	168	1.03		N	N	-	Y-2011-0479	-	2012
29-Aug-12	14:00	L	U	10.5	1208	AC	267	193	1.01	5	N	N	-	Y-2011-0478	-	2012
29-Aug-12	14:00	L	U	10.5	1209	AC	269	165	0.85		N	N	-	Y-2011-0477	-	2012
29-Aug-12	14:00	L	U	10.5	1210	AC	195	81	1.09		N	N	900026000149957	-	2012	-
29-Aug-12	14:00	L	U	10.5	1211	AC	287	260	1.10		N	N	-	Y-2011-0476	-	2012
29-Aug-12	14:00	L	U	10.5	1212	AC	285	216	0.93	4	N	N	-	Y-2011-0351	-	2012
29-Aug-12	14:00	L	U	10.5	1213	AC	236	136	1.03		N	N	-	Y-2011-0352	-	2012
29-Aug-12	14:00	L	U	10.5	1214	AC	248	160	1.05		N	N	-	Y-2011-0353	-	2012
29-Aug-12	14:00	L	U	10.5	1215	AC	212	104	1.09		N	N	900026000149971	-	2012	-
29-Aug-12	14:00	L	U	10.5	1216	AC	207	91	1.03		N	N	-	Y-2011-0354	-	2012
29-Aug-12	14:00	L	U	10.5	1217	AC	256	196	1.17		N	Y	965000000090060	-	2012	-
29-Aug-12	14:00	L	U	10.5	1218	AC	226	115	1.00	3	N	N	-	Y-2011-0355	-	2012
29-Aug-12	14:00	U	U	10.5	1219	AC	-	-	-		N	Y	900026000149509	-	2012	-
29-Aug-12	14:00	U	U	10.5	1219	AC	-	-	-		N	Y	900026000149989	-	2012	-
29-Aug-12	14:00	U	U	10.5	1220	AC	263	181	0.99	3	N	N	-	Y-2011-0356	-	2012
30-Aug-12	9:00	L	U	10.1	1221	AC	218	103	0.99	4	N	N	-	Y-2011-0357	-	2012
30-Aug-12	9:00	L	U	10.1	1222	AC	229	125	1.04	4	N	N	-	Y-2011-0358	-	2012
30-Aug-12	9:00	L	U	10.1	1223	AC	211	93	0.99		N	N	-	Y-2011-0359	-	2012
30-Aug-12	9:00	L	U	10.1	1224	AC	304	332	1.18	3	N	N	-	Y-2011-0360	-	2012
30-Aug-12	9:00	L	U	10.1	1225	AC	302	268	0.97		N	Y	900026000149536	-	2012	-
30-Aug-12	9:00	L	U	10.1	1226	AC	254	163	0.99		N	N	-	Y-2011-0361	-	2012
30-Aug-12	9:00	L	U	10.1	1227	AC	225	129	1.13		N	N	-	Y-2011-0362	-	2012
30-Aug-12	9:00	L	U	10.1	1228	AC	268	189	0.98		N	N	-	Y-2011-0363	-	2012
30-Aug-12	9:00	L	U	10.1	1229	AC	254	181	1.10	3	N	N	-	Y-2011-0364	-	2012
30-Aug-12	9:00	L	U	10.1	1230	AC	232	126	1.01		N	N	-	Y-2011-0365	-	2012
30-Aug-12	9:00	L	U	10.1	1231	AC	261	181	1.02		N	N	-	Y-2011-0366	-	2012
30-Aug-12	9:00	L	U	10.1	1232	AC	260	179	1.02		N	N	-	Y-2011-0367	-	2012
30-Aug-12	9:00	L	U	10.1	1233	AC	244	147	1.01		N	N	-	Y-2011-0368	-	2012
30-Aug-12	9:00	L	U	10.1	1234	AC	213	112	1.16		N	N	900026000149946	-	2012	-
30-Aug-12	9:00	L	U	10.1	1235	AC	179	61	1.06	3	N	N	900026000149914	-	2012	-
30-Aug-12	9:00	U	U	10.1	1236	AC	-	-	-		N	Y	900026000149906	-	2012	-
30-Aug-12	9:00	U	U	10.1	1237	AC	-	-	-		N	Y	-	Y-2011-0654	-	2012
30-Aug-12	9:00	U	U	10.1	1238	AC	-	-	-		N	Y	-	Y-2011-0476	-	2012
30-Aug-12	9:00	U	U	10.1	1239	AC	-	-	-		N	Y	900026000062807	-	2012	-
30-Aug-12	9:00	U	U	10.1	1240	AC	-	-	-		N	Y	900026000149952	-	2012	-
30-Aug-12	9:00	U	U	10.1	1241	AC	-	-	-		N	Y	900026000149941	-	2012	-
30-Aug-12	9:00	U	U	10.1	1242	AC	-	-	-		N	Y	-	Y-2011-0353	-	2012
30-Aug-12	10:40	U	U	10.1	1243	AC	-	-	-		N	Y	900026000149927	-	2012	-
30-Aug-12	10:40	U	U	10.1	1244	AC	-	-	-		N	Y	-	Y-2011-0486	-	2012
30-Aug-12	10:40	U	U	10.1	1246	AC	-	-	-		N	Y	900026000149977	-	2012	-
30-Aug-12	10:40	U	U	10.1	1247	AC	-	-	-		N	Y	-	Y-2011-0354	-	2012
30-Aug-12	10:40	U	U	10.1	1248	AC	-	-	-		N	Y	900026000149951	-	2012	-
30-Aug-12	10:40	U	U	10.1	1249	AC	-	-	-		N	Y	-	Y-2011-0481	-	2012
30-Aug-12	10:40	U	U	10.1	1250	AC	-	-	-		N	Y	-	Y-2011-0480	-	2012
30-Aug-12	10:40	U	U	10.1	1251	AC	297	235	0.90		N	N	-	Y-2011-0369	-	2012
30-Aug-12	10:40	U	U	10.1	1252	AC	276	249	1.18		N	N	-	Y-2011-0370	-	2012
30-Aug-12	10:40	U	U	10.1	1253	AC	333	364	0.99		N	N	-	Y-2011-0371	-	2012
30-Aug-12	10:40	U	U	10.1	1254	AC	293	293	1.16		N	N	-	Y-2011-0372	-	2012
30-Aug-12	10:40	U	U	10.1	1255	AC	288	238	1.00		N	N	-	Y-2011-0373	-	2012
30-Aug-12	10:40	U	U	10.1	1256	AC	238	155	1.15		N	N	-	Y-2011-0374	-	2012
30-Aug-12	10:40	U	U	10.1	1257	AC	262	153	0.85		N	N	-	Y-2011-0375	-	2012
30-Aug-12	10:40	U	U	10.1	1258	AC	253	155	0.96		N	N	-	Y-2011-0826	-	2012
29-Jun-10		U	D	4.0	1	AC	247	113	0.75	3	N	N	965000000090346	Y-RL10-0001	2010	2010
30-Jun-10		U	D	4.5	2	AC	260	137	0.78	3	N	N	965000000093378	Y-RL10-0002	2010	2010
30-Jun-10		U	D	5.0	3	AC	360	324	0.69	5	N	N	965000000084108	Y-RL10-0003	2010	2010
30-Jun-10		U	D	5.0	4	AC	340	330	0.84	-	N	N	965000000086213	Y-RL10-0004	2010	2010
30-Jun-10		U	D	5.0	5	AC	338	331	0.86	4	N	N	965000000089361	Y-RL10-0005	2010	2010
30-Jun-10		U	D	5.0	6	AC	419	572	0.78	4	N	N	965000000087259	Y-RL10-0006	2010	2010
30-Jun-10		U	D	5.0	7	AC	360	398	0.85	4	N	N	965000000091214	Y-RL10-0007	2010	2010
30-Jun-10		U	D	5.0	8	LT	848	-	-	35	N	Y	965000000087398	G-4636	2010	2006
30-Jun-10		L	U	5.0	9	AC	802	-	-	9	N	N	965000000078673	Y-RL10-0008	2010	2010
4-Jul-10		U	U	8.0	1	AC	670	2300	0.76	6	N	N	965000000065852	Y-RL10-0009	2010	2010
4-Jul-10		U	U	8.0	2	AC	788	-	-	-	N	Y	965000000078673	Y-RL10-0008	2010	2010
5-Jul-10		U	U	8.0	1	LT	703	3100	0.89	21	N	N	965000000067943	Y-RL10-0010	2010	2010
5-Jul-10		U	D	8.0	2	LT	442	767	0.89	18	N	N	965000000070079	Y-RL10-0011	2010	2010
5-Jul-10		U	D	8.0	3	AC	185	51	0.81	2	N	N	965000000071984		2010	
5-Jul-10		L	U	8.0	4	LT	810	-	-	-	N	Y	965000000067202	G-4389	2010	2005
5-Jul-10		L	U	8.0	5	LT	810	-	-	-	N	Y	985120031554950	Y-RL10-0012	2007	2010
5-Jul-10		L	U	8.0	6	AC	745	-	-	-	N	Y	985120031564136	G-3847	2007	2007
5-Jul-10		U	U	8.0	7	AC	745	-	-	-	N	Y	985120031564136	G-3847	2007	2007
5-Jul-10		U	D	8.0	8	AC	315	274	0.88	4	N	N	965000000069844	Y-RL10-0013	2010	2010
5-Jul-10		U	D	8.0	9	AC	309	270	0.92	3	N	N	965000000070466	Y-RL10-0014	2010	2010
5-Jul-10		U	D	8.0	10	AC	411	602	0.87	4	N	N	965000000072597	Y-RL10-0015	2010	2010
5-Jul-10		U	D	8.0	11	AC	251	125	0.79	3	N	N	965000000065329	Y-RL10-0016	2010	2010
5-Jul-10		U	D	8.0	12	AC	353	365	0.83	7	N	N	965000000070209	Y-RL10-0017	2010	2010
6-Jul-10		U	U	7.0	1	LT	-	-	-	-	N	Y	985120031554950	Y-RL10-0012	2007	2010
6-Jul-10		U	U	7.0	2	LT	-	-	-	-	N	Y	965000000067202	G-4389	2010	2005
6-Jul-10		L	U	7.0	3	LT	745	3400	0.82	22	N	N	965000000065333	Y-RL10-0018	2010	2010
6-Jul-10		L	U	7.0	4	LT	605	2378	1.07	-	N	Y	965000000069326	G-4724	2010	2006
6-Jul-10		L	U	7.0	5	AC	740	3700	0.91	7	N	N	965000000070593	Y-RL10-0019	2010	2010
6-Jul-10		L	U	7.0	6	LT	630	2300	0.92	13	N	N	965000000072352	Y-RL10-0020	2010	2010
6-Jul-10		L	U	7.0	7	AC	759	4500	1.03	-	N	Y	965000000068918	G-4697		2006
6-Jul-10		L	U	7.0	8	AC	796	-	-	-	N	N	965000000069036	Y-RL10-0021	2010	2010
6-Jul-10		L	U	7.0	9	AC	890	-	-	24	N	N	965000000064488	Y-RL10-0022	2010	2010
6-Jul-10		L	U	7.0	10	AC	738	-	-	9	N	N	965000000070329	Y-RL10-0023	2010	2010
6-Jul-10		L	U	7.0	11	AC	734	-	-	9	N	N	965000000010226	Y-RL10-0024	2010	2010
6-Jul-10		L	U	7.0	12	LT	810	-	-	-	N	Y	965000000071344	G-4330	2010	2005
6-Jul-10		L	U	7.0	13	LT	708	-	-	-	N	Y	985120031627753	G-4702	2007	2006

Species Code: AC = Arctic char, LT = lake trout, LW = lake whitefish, RW = round whitefish, CISC = least cisco, SC = saffron cod

Box Location: L = Lower, U = Upper

Fish Direction: D = Downstream, U = Upstream

Y = yes, N = no

Dashes indicate not applicable

Appendix 7. Biological and Tagging Data from Fish Fences in Roberts Outflow, Doris North Project, 2012

Date (dd/mm/yy)	Time (24 hr clock)	Box Location (U/L)	Fish Direction (U/D)	Water Temp (˚C)	Unique Sample No.	Species Code	Fork Length (mm)	Weight (g)	Condition (K)	Age (years)	Mortality (Y/N)	Recap (Y/N)	PIT Tag No.	Floy Tag No.	PIT Tag Year	Floy Tag Year
6-Jul-10		L	U	7.0	14	AC	765	-	-	-	N	Y	985120031657736	G-3838	2007	2007
6-Jul-10		L	U	7.0	15	LT	485	930	0.82	12	N	N	965000000067357	Y-RL10-0025	2010	2010
6-Jul-10		L	U	7.0	16	AC	763	-	-	7	N	N	965000000068731	Y-RL10-0751	2010	2010
7-Jul-10		U	U	5.0	1	AC		-	-	-	N	Y	965000000070593	Y-RL10-0019	2010	2010
7-Jul-10		U	U	5.0	2	LT	-	-	-	-	N	Y	985120031627753	G-4702	2007	2006
7-Jul-10		U	U	5.0	3	AC	-	-	-	-	N	Y	965000000010226	Y-RL10-0024	2010	2010
7-Jul-10		U	U	5.0	4	AC	-	-	-	-	N	Y	985120031657736	G-3838	2007	2007
7-Jul-10		U	U	5.0	5	LT	-	-	-	-	N	Y	-	G-4697		2006
7-Jul-10		U	U	5.0	6	LT	-	-	-	-	N	Y	965000000071344	G-4330	2010	2005
7-Jul-10		U	U	5.0	7	LT	-	-	-	-	N	Y	965000000064488	Y-RL10-0022	2010	2010
7-Jul-10		U	U	5.0	8	AC	-	-	-	-	N	Y	965000000070329	Y-RL10-0023	2010	2010
7-Jul-10		U	D	5.0	9	AC	262	142	0.79	3	N	N	965000000065212	Y-RL10-0752	2010	2010
7-Jul-10		U	D	5.0	10	AC	239	110	0.81	3	N	N	965000000072733	Y-RL10-0753	2010	2010
7-Jul-10		U	D	5.0	11	AC	186	48	0.75	2	N	-	-			
7-Jul-10		U	D	5.0	12	LT	98	5	0.53	1	N	N	-			
7-Jul-10		L	U	5.0	13	LT	902	-	-	29	N	N	965000000113084	Y-RL10-0754	2010	2010
7-Jul-10		L	U	5.0	14	LT	672	3000	0.99	-	N	Y	985120031604311		2007	
7-Jul-10		L	U	5.0	15	AC	805	-	-	9	N	N	965000000073166	Y-RL10-0755	2010	2010
7-Jul-10		U	D	5.0	16	AC	198	63	0.81	3	N	N	965000000071835		2010	
7-Jul-10		U	D	5.0	17	AC	237	108	0.81	3	N	-	965000000068942		2010	
7-Jul-10		U	D	5.0	18	AC	301	222	0.81	3	N	N	965000000000640	Y-RL10-0756	2010	2010
7-Jul-10		U	D	5.0	19	AC	309	232	0.79	3	N	N	965000000067659	Y-RL10-0757	2010	2010
7-Jul-10		U	U	5.0	20	LT	-	-	-	-	N	Y	965000000069326	G-4724	2010	2006
7-Jul-10		U	D	5.0	21	AC	193	60	0.83	2	N	-	965000000009938		2010	
7-Jul-10		U	D	5.0	22	AC	287	200	0.85	3	N	N	965000000068736	Y-RL10-0758	2010	2010
7-Jul-10		U	D	5.0	23	AC	380	487	0.89	4	N	N	965000000069782	Y-RL10-0760	2010	2010
7-Jul-10		U	D	5.0	24	AC	460	791	0.81	4	N	N	965000000070149	Y-RL10-0761	2010	2010
7-Jul-10		U	D	5.0	25	AC	263	150	0.82	2	N	N	965000000072419	Y-RL10-0762	2010	2010
7-Jul-10		U	D	5.0	26	AC	256	144	0.86	3	N	N	965000000072668	Y-RL10-0763	2010	2010
7-Jul-10		U	D	5.0	27	AC	376	445	0.84	4	N	N	965000000069574	Y-RL10-0764	2010	2010
7-Jul-10		L	U	5.0	28	AC	-	-	-	-	N	Y	965000000072597	Y-RL10-0015	2010	2010
8-Jul-10		U	U	5.0	1	AC	-	-	-	-	N	Y	965000000073166	Y-RL10-0755	2010	2010
8-Jul-10		U	U	5.0	2	AC	-	-	-	-	N	Y	965000000068731	Y-RL10-0751	2010	2010
8-Jul-10		U	U	5.0	3	LT	-	-	-	-	N	Y	965000000065333	Y-RL10-0018	2010	2010
8-Jul-10		U	U	5.0	4	LT	-	-	-	-	N	Y	965000000072352	Y-RL10-0020	2010	2010
8-Jul-10		U	D	5.0	5	AC	248	126	0.83		N	N	965000000080136	Y-RL10-0766	2010	2010
8-Jul-10		U	D	5.0	6	AC	295	228	0.89	3	N	N	965000000087000	Y-RL10-0768	2010	2010
8-Jul-10		L	U	5.0	7	AC	780	-	-	10	N	N	965000000088550	Y-RL10-0769	2010	2010
8-Jul-10		L	U	5.0	8	AC	843	-	-	10	N	N	965000000078058	Y-RL10-0771	2010	2010
8-Jul-10		L	U	5.0	9	LT	616	-	-	17	N	N	965000000086005	Y-RL10-0772	2010	2010
8-Jul-10		L	D	5.0	10	AC	-	-	-	-	N	Y	965000000067659	Y-RL10-0757	2010	2010
8-Jul-10		L	U	5.0	11	AC	805	-	-	10	N	N	965000000111625	Y-RL10-0773	2010	2010
8-Jul-10		L	D	5.0	12	AC	-	-	-	-	N	Y	965000000088550	Y-RL10-0769	2010	2010
8-Jul-10		L	D	5.0	13	AC	-	-	-	-	N	Y	965000000068736	Y-RL10-0758	2010	2010
8-Jul-10		U	D	5.0	14	LT	685	-	-	24	N	N	965000000089655	Y-RL10-0774	2010	2010
8-Jul-10		U	D	5.0	15	AC	425	783	1.02	5	N	N	965000000088878	Y-RL10-0775	2010	2010
8-Jul-10		U	D	5.0	16	AC	450	-	-	6	N	N	965000000082647		2010	
9-Jul-10		U	U	5.0	1	LT	-	-	-	-	N	Y	965000000113084	Y-RL10-0754	2010	2010
9-Jul-10		U	U	5.0	2	AC	-	-	-	-	N	Y	965000000111625	Y-RL10-0773	2010	2010
9-Jul-10		U	U	5.0	3	LT	-	-	-	-	N	Y	985120031604311		2007	
9-Jul-10		U	D	5.0	4	AC	429	658	0.83	4	N	N	965000000070211	Y-RL10-0799	2010	2010
9-Jul-10		U	D	5.0	5	AC	201	65	0.80	4	N	N	-			
9-Jul-10		L	U	5.0	6	LT	941	-	-	-	N	N	965000000069900	Y-RL10-0798	2010	2010
9-Jul-10		L	U	5.0	7	LT	655	3200	1.14	24	N	N	965000000067066	Y-RL10-0797	2010	2010
9-Jul-10		L	U	5.0	8	AC	-	-	-	4	N	Y	965000000087000	Y-RL10-0768	2010	2010
9-Jul-10		U	U	5.0	9	LT	-	-	-	-	N	Y	965000000067357	Y-RL10-0025	2010	2010
9-Jul-10		U	D	5.0	10	AC	198	78	1.00	3	N	N	965000000068916	Y-RL10-00796	2010	2010
9-Jul-10		U	D	5.0	11	AC	177	42	0.76	2	N	N	965000000072019		2010	
9-Jul-10		U	D	5.0	12	AC	221	89	0.82	3	N	N	965000000068405		2010	
9-Jul-10		U	D	5.0	13	AC	242	113	0.80	4	N	N	965000000065719		2010	
9-Jul-10		U	D	5.0	14	AC	235	104	0.80		N	N	965000000069464		2010	
11-Jul-10		L	U	8.0	1	LT	624	2300	0.95	25	N	N	965000000071652	Y-RL10-0794	2010	2010
11-Jul-10		U	U	8.0	2	AC	-	-	-	-	N	Y	965000000078058	Y-RL10-0771	2010	2010
11-Jul-10		U	U	8.0	3	LT	-	-	-	-	N	Y	965000000086005	Y-RL10-0772	2010	2010
11-Jul-10		U	D	8.0	4	AC	413	570	0.81	4	N	N	-	Y-RL10-0793		2010
11-Jul-10		U	D	8.0	5	AC	457	790	0.83	5	N	N	-	Y-RL10-0792		2010
11-Jul-10		L	U	8.0	6	LT	675	6100	1.98	-	N	Y	9.8512E+14	G-4222	2007	2004
11-Jul-10		U	U	8.0	7	LT	-	-	-	-	N	Y	965000000069900	Y-RL10-0798	2010	2010
12-Jul-10		-		7.0	1	AC	249	121	0.78	4	N	-	-			
12-Jul-10		L	U	7.0	2	LT	842	9100	1.52	-	N	Y	-	G-4084		2004
12-Jul-10		L	U	7.0	3	AC	744	8100	1.97	-	N	Y	985120031583409	G-3818	2007	2007
12-Jul-10		L	U	7.0	4	LT	594	2100	1.00	-	N	Y	9.85153E+14	G-4063	2007	2004
12-Jul-10		U	D	7.0	5	AC	675	4900	1.59	-	N	Y	985120031600704	G-3950	2007	2007
12-Jul-10		U	D	7.0	6	AC	402	700	1.08	4	N	N	965000000067624	Y-RL10-0791	2010	2010
12-Jul-10		U	D	7.0	7	AC	392	700	1.16	4	N	N	965000000065091	Y-RL10-0790	2010	2010
12-Jul-10		U	D	7.0	8	AC	400	800	1.25	5	N	N	965000000070939	Y-RL10-0789	2010	2010
12-Jul-10		U	D	7.0	9	AC	373	600	1.16	3	N	N	-	Y-RL10-0788		2010
12-Jul-10		U	D	7.0	10	AC	362	650	1.37	3	N	N	-	Y-RL10-0787		2010
12-Jul-10		L	D	7.0	11	AC	-	-	-	-	N	Y	965000000070466	Y-RL10-0014	2010	2010
12-Jul-10		L	D	7.0	12	AC	-	-	-	-	N	Y	965000000070939	Y-RL10-0789	2010	2010
12-Jul-10		L	D	7.0	13	AC	-	-	-	-	N	Y	-	Y-RL10-0711		2010
12-Jul-10		L	D	7.0	14	AC	-	-	-	-	N	-	-			
12-Jul-10		-		-	15	AC	-	-	-	-	N	Y	965000000080136	Y-RL10-0766	2010	2010
13-Jul-10		U	U	6.0	1	LT	-	-	-	-	N	Y	-	G-4084		2004
13-Jul-10		U	U	6.0	2	LT	442	1150	1.33	20	N	N	-	Y-RL10-0786		2010
13-Jul-10		U	U	6.0	3	AC	-	-	-	-	N	Y	985120031600704	G-3950	2007	2007
13-Jul-10		U	D	6.0	4	AC	183	48	0.78	3	N	N	-			
13-Jul-10		L	U	6.0	5	LT	755	8750	2.03	-	N	Y	-	G-4474		2005
13-Jul-10		L	U	6.0	6	LT	790	6750	1.37	27	N	N	965000000065089	Y-RL10-0785	2010	2010
13-Jul-10		L	U	6.0	7	AC	689	7750	2.37	8	N	N	965000000071417	Y-RL10-0784	2010	2010
13-Jul-10		L	U	6.0	8	LT	575	2900	1.53	20	N	N	965000000066787	Y-RL10-0783	2010	2010
13-Jul-10		L	U	6.0	9	LT	745	7250	1.75	-	N	Y	985153000021209	G-4721	2007	2006
13-Jul-10		L	U	6.0	10	LT	568	3000	1.64	-	N	Y	985153000021419	G-3993	2007	2007
13-Jul-10		L	U	6.0	11	LT	585	4650	2.32	-	N	Y	-	G-4267		2005
13-Jul-10		L	U	6.0	12	LT	443	1300	1.50	11	N	N	965000000069704	Y-RL10-0782	2010	2010
13-Jul-10		L	D	6.0	13	AC	208	86	0.96	-	N	N	-			
14-Jul-10		L	U	8.0	1	LT	890	-	-	36	N	N	-	Y-RL10-0780		2010
14-Jul-10		L	U	8.0	2	LT	485	2000	1.75	18	N	N	-	Y-RL10-0781		2010
14-Jul-10		L	U	8.0	3	LT	625	3650	1.50	14	N	N	-	Y-RL10-0779		2010

Species Code: AC = Arctic char, LT = lake trout, LW = lake whitefish, RW = round whitefish, CISC = least cisco, SC = saffron cod

Box Location: L = Lower, U = Upper

Fish Direction: D = Downstream, U = Upstream

Y = yes, N = no

Dashes indicate not applicable

Appendix 7. Biological and Tagging Data from Fish Fences in Roberts Outflow, Doris North Project, 2012

Date (dd/mm/yy)	Time (24 hr clock)	Box Location (U/L)	Fish Direction (U/D)	Water Temp (˚C)	Unique Sample No.	Species Code	Fork Length (mm)	Weight (g)	Condition (K)	Age (years)	Mortality (Y/N)	Recap (Y/N)	PIT Tag No.	Floy Tag No.	PIT Tag Year	Floy Tag Year
14-Jul-10		L	U	8.0	4	LT	615	3650	1.57	14	N	N	965000000070509	Y-RL10-0778	2010	2010
14-Jul-10		L	D	8.0	5	LT	-	-	-	-	N	Y	-	Y-RL10-0787		2010
15-Jul-10		U	U	10.0	1	AC	-	-	-	-	N	Y	-	Y-RL10-0800		2010
15-Jul-10		U	U	10.0	2	LT	-	-	-	-	N	Y	985153000021011	G-4875	2007	2007
15-Jul-10		U	U	10.0	3	AC	-	-	-	-	N	Y	965000000069036	Y-RL10-0021	2010	2010
15-Jul-10		U	U	10.0	4	LT	-	-	-	-	N	Y	-	Y-RL10-0779		2010
15-Jul-10		U	D	10.0	5	AC	299	217	0.81	6	N	N	-	Y-RL10-0777		2010
15-Jul-10		U	D	10.0	6	AC	208	72	0.80	4	N	-	-			
15-Jul-10		L	U	10.0	7	AC	820	8000	1.45	9	N	N	-	Y-RL10-0076		2010
15-Jul-10		L	U	10.0	8	AC	798	6500	1.28	-	N	Y	985120031628538	G-3821	2007	2007
15-Jul-10		L	U	10.0	9	LT	698	5000	1.47	-	N	Y	965000000002381	G-4633	2012	2006
15-Jul-10		L	U	10.0	10	LT	745	6000	1.45	-	N	Y	9.8512E+14	G-4646	2007	2006
15-Jul-10		L	U	10.0	11	LT	546	2500	1.54	-	N	Y	985153000021435	G-3992	2007	2007
15-Jul-10		L	D	10.0	12	AC	227	104	0.89	3	N	-	-			
15-Jul-10		L	U	10.0	13	AC	908	10000	1.34	-	N	N	965000000066652	Y-RL10-0326	2010	2010
16-Jul-10		U	D	8.0	1	AC	380	446	0.81	4	N	N	-	Y-RL10-0327		2010
16-Jul-10		U	D	8.0	2	AC	344	311	0.76	4	N	N	-	Y-RL10-0328		2010
16-Jul-10		U	D	8.0	3	AC	278	171	0.80	4	N	N	965000000065207	Y-RL10-0329	2010	2010
16-Jul-10		U	D	8.0	4	AC	288	171	0.72	3	N	N	-	Y-RL10-0330		2010
16-Jul-10		U	D	8.0	5	AC	239	112	0.82	4	N	N	965000000068344	Y-RL10-0331	2010	2010
16-Jul-10		L	U	8.0	6	LT	800	6000	1.17	26	N	N	9.65E+14	Y-RL10-0332	2011	2010
16-Jul-10		L	U	8.0	7	AC	820	6900	1.25	10	N	N	-	Y-RL10-0333		2010
16-Jul-10		L	U	8.0	8	LT	570	3000	1.62	-	N	Y	985120031624111	G-3809	2007	2007
16-Jul-10		U	U	8.0	9	LT	425	1100	1.43	11	N	Y	-	Y-RL10-0781		2010
17-Jul-10		U	U	8.0	1	LT	730	6500	1.67	-	N	Y	-	G-4474		2005
17-Jul-10		U	U	8.0	2	LT	550	2500	1.50	-	N	Y	985153000021484	G-3982	2007	2007
17-Jul-10		U	U	8.0	3	LT	425	-	-	-	N	Y	965000000069704	Y-RL10-0782	2010	2010
17-Jul-10		U	U	8.0	4	LT	745	5500	1.33	-	N	Y	9.8512E+14	G-4646	2007	2006
17-Jul-10		U	U	8.0	5	LT	572	2500	1.34	-	N	Y	-	G-4267		2005
17-Jul-10		U	U	8.0	6	LT	688	4500	1.38	-	N	Y	965000000002381	G-4633	2012	2006
17-Jul-10		U	U	8.0	7	AC	740	6000	1.48	-	N	Y	985120031583409	G-3818	2007	2007
17-Jul-10		U	U	8.0	8	LT	575	2500	1.32	-	N	Y	9.85153E+14	G-4063	2007	2004
17-Jul-10		U	U	8.0	9	LT	570	2500	1.35	25	N	N	-	Y-RL10-0335		2010
17-Jul-10		U	U	8.0	10	LT	677	4500	1.45	-	N	Y	9.8512E+14	G-4222	2007	2004
17-Jul-10		U	U	8.0	11	AC	489	2000	1.71	-	N	Y	-	Y-RL10-0780		2010
17-Jul-10		U	U	8.0	12	LT	454	1500	1.60	-	N	Y	-	G-4268		2005
17-Jul-10		U	D	8.0	13	LT	426	1300	1.68	-	N	Y	-	Y-RL10-0334		2010
17-Jul-10		U	D	8.0	14	AC	374	700	1.34	4	N	N	-	Y-RL10-0336		2010
17-Jul-10		L	U	8.0	15	LT	910	10500	1.39	23	N	N	965000000072302	Y-RL10-0377	2010	2010
17-Jul-10		L	U	8.0	16	LT	685	4500	1.40	25	N	N	965000000066375	Y-RL10-0338	2010	2010
18-Jul-10		L	U	7.0	1	LT	635	4300	1.68	-	N	Y	985153000021434	G-3995	2007	2007
18-Jul-10		L	U	7.0	2	LT	665	4500	1.53	13	N	N	965000000065971	Y-RL10-0339	2010	2010
18-Jul-10		L	U	7.0	3	LT	602	-	-	12	N	N	-	Y-RL10-0340		2010
18-Jul-10		L	U	7.0	4	LT	626	4500	1.83	-	N	Y	9.85153E+14	G-4896	2007	2007
18-Jul-10		L	U	7.0	5	LT	875	6300	0.94	-	N	Y	985153000021076	G-4699	2007	2006
18-Jul-10		L	U	7.0	6	LT	616	4500	1.93	-	N	Y	985153000021421	G-4096	2007	2004
18-Jul-10		L	U	7.0	7	LT	534	-	-	-	N	Y	985153000021410	G-4293	2007	2005
18-Jul-10		L	U	7.0	8	LT	560	-	-	15	N	N	965000000066514	Y-RL10-1341	2010	2010
18-Jul-10		U	U	7.0	9	AC	820	6100	1.11	-	N	Y	-	Y-RL10-0333		2010
18-Jul-10		U	U	7.0	10	LT	804	6300	1.21	-	N	Y	9.65E+14	Y-RL10-0332	2011	2010
18-Jul-10		U	D	7.0	11	AC	214	-	-	-	N	N	965000000000735		2010	
18-Jul-10		U	D	7.0	12	AC	203	-	-	2	N	N	-			
18-Jul-10		U	D	7.0	13	AC	184	-	-	2	N	N	-			
18-Jul-10		U	D	7.0	14	AC	177	-	-	2	N	N	-			
18-Jul-10		U	D	7.0	15	AC	136	-	-	NA	N	N	-			
19-Jul-10		U	U	7.0	1	LT	910	10500	1.39	23	N	Y	965000000072302	Y-RL10-0377	2010	2010
19-Jul-10		U	U	7.0	2	LT	870	8500	1.29	-	N	Y	985153000021076	G-4699	2007	2006
19-Jul-10		U	U	7.0	3	LT	660	4500	1.57	20	N	N	965000000066385	Y-RL10-0343	2010	2010
19-Jul-10		U	U	7.0	4	LT	590	3500	1.70	-	N	Y	965000000066375	Y-RL10-0338	2010	2010
19-Jul-10		U	U	7.0	5	LT	638	4300	1.66	-	N	Y	985153000021434	G-3995	2007	2007
19-Jul-10		U	U	7.0	6	LT	630	4300	1.72	-	N	Y	985153000021472	G-4896	2007	2007
19-Jul-10		U	U	7.0	7	LT	541	3300	2.08	-	N	Y	9.85153E+14	Y-RL10-0344	2007	2010
19-Jul-10		U	D	7.0	8	AC	267	165	0.87	3	N	N	965000000069181		2010	
19-Jul-10		L	U	7.0	9	LT	838	7500	1.27	-	N	Y	985120031614241	G-4667	2007	2006
19-Jul-10		L	U	7.0	10	AC	739	5900	1.46	11	N	N	965000000010153	Y-RL10-0345	2010	2010
19-Jul-10		L	U	7.0	11	AC	782	5600	1.17	-	N	N	965000000071898	Y-RL10-0346	2010	2010
19-Jul-10		L	D	7.0	12	AC	227	98	0.84	3	N	N	965000000069717		2010	
19-Jul-10		L	D	7.0	13	AC	212	-	-	-	N	Y	-			
21-Jul-10		U	U	7.0	1	LT	831	6900	1.20	-	N	Y	985120031614241	G-4667	2007	2006
21-Jul-10		U	U	7.0	2	AC	766	7000	1.56	-	N	Y	965000000071898	Y-RL10-0346	2010	2010
21-Jul-10		U	U	7.0	3	LT	617	3500	1.49	-	N	Y	985153000021421	G-4096	2007	2004
21-Jul-10		U	U	7.0	4	LT	600	3500	1.62	-	N	Y	965000000010150	Y-RL10-0342		2010
21-Jul-10		U	U	7.0	5	LT	377	499	0.93	9	N	N	965000000072115	Y-RL10-0347	2010	2010
21-Jul-10		U	D	7.0	6	AC	325	292	0.85	4	N	N	965000000007190	Y-RL10-0348	2010	2010
21-Jul-10		U	D	7.0	7	AC	353	378	0.86	4	N	N	965000000069984	Y-RL10-0349	2010	2010
21-Jul-10		U	D	7.0	8	AC	359	425	0.92	4	N	N	965000000070502	Y-RL10-0350	2010	2010
21-Jul-10		U	D	7.0	9	AC	320	106	0.32	3	N	N	965000000071206	Y-RL10-0325	2010	2010
21-Jul-10		U	D	7.0	10	AC	199	70	0.89	3	N	N	965000000006661	Y-RL10-0324	2010	2010
21-Jul-10		U	D	7.0	11	AC	694	3500	1.05	8	N	N	965000000069041	Y-RL10-0323	2010	2010
21-Jul-10		U	D	7.0	12	AC	405	503	0.76	3	N	N	965000000713085	Y-RL10-0322	2010	2010
21-Jul-10		U	D	7.0	13	AC	352	371	0.85	5	N	N	965000000065967	Y-RL10-0321	2010	2010
21-Jul-10		U	D	7.0	14	AC	330	301	0.84	4	N	N	965000000072182	Y-RL10-0320	2010	2010
21-Jul-10		U	D	7.0	15	AC	302	236	0.86	6	N	N	965000000064884	Y-RL10-0319	2010	2010
21-Jul-10		U	D	7.0	16	AC	264	145	0.79	2	N	N	965000000041756	Y-RL10-0318	2010	2010
21-Jul-10		U	D	7.0	17	AC	263	137	0.75	3	N	N	965000000071833	Y-RL10-0317	2010	2010
21-Jul-10		U	D	7.0	18	AC	252	114	0.71	3	N	N	965000000071841	Y-RL10-0316	2010	2010
21-Jul-10		U	D	7.0	19	AC	247	111	0.74	3	N	N	965000000070374	Y-RL10-0315	2010	2010
21-Jul-10		U	D	7.0	20	AC	182	48	0.80	3	N	N	965000000070862	Y-RL10-0314	2010	2010
21-Jul-10		U	U	7.0	21	AC	207	73	0.82	3	N	N	965000000070797	Y-RL10-0313	2010	2010
21-Jul-10		U	U	7.0	22	AC	235	102	0.79	2	N	N	965000000071229	Y-RL10-0312	2010	2010
21-Jul-10		U	U	7.0	23	AC	205	68	0.79	4	N	N	965000000069899	Y-RL10-0311	2010	2010
21-Jul-10		L	U	7.0	24	LT	500	2300	1.84	20	N	N	-			
21-Jul-10		L	U	7.0	25	LT	462	1700	1.72	-	N	N	965000000067798	Y-RL10-0310	2010	2010
21-Jul-10		L	U	7.0	26	LT	565	3500	1.94	-	N	Y	985153000021447	G-4055	2007	2004
21-Jul-10		L	U	7.0	27	LT	586	3500	1.74	-	N	Y	985153000021495	G-3990	2007	2007
21-Jul-10		L	U	7.0	28	LT	586	4300	2.14	-	N	Y	985153000021489	G-3983	2007	2007
21-Jul-10		L	U	7.0	29	AC	643	-	-	-	N	N	965000000069169	Y-RL10-0309	2010	2010
21-Jul-10		L	D	7.0	30	AC	235	112	0.86	-	N	Y	965000000068344	Y-RL10-0331	2010	2010
22-Jul-10		L	U	7.0	1	LT	822	5900	1.06	34	N	N	965000000069905	Y-RL10-0308	2010	2010

Species Code: AC = Arctic char, LT = lake trout, LW = lake whitefish, RW = round whitefish, CISC = least cisco, SC = saffron cod

Box Location: L = Lower, U = Upper

Fish Direction: D = Downstream, U = Upstream

Y = yes, N = no

Dashes indicate not applicable

Appendix 7. Biological and Tagging Data from Fish Fences in Roberts Outflow, Doris North Project, 2012

Date (dd/mm/yy)	Time (24 hr clock)	Box Location (U/L)	Fish Direction (U/D)	Water Temp (˚C)	Unique Sample No.	Species Code	Fork Length (mm)	Weight (g)	Condition (K)	Age (years)	Mortality (Y/N)	Recap (Y/N)	PIT Tag No.	Floy Tag No.	PIT Tag Year	Floy Tag Year
22-Jul-10		L	U	7.0	2	LT	588	3500	1.72	-	N	Y	985153000021457	G-3984	2007	2007
22-Jul-10		L	U	7.0	3	AC	794	7500	1.50	11	N	N	965000000070382	Y-RL10-0307	2010	2010
22-Jul-10		L	U	7.0	4	AC	710	6500	1.82	-	N	Y	-	Y-RL10-0306		2010
22-Jul-10		L	U	7.0	5	LT	608	3500	1.56	26	N	N	965000000067622	Y-RL10-0305	2010	2010
22-Jul-10		L	D	7.0	6	AC	299	235	0.88		N	Y	965000000064884	Y-RL10-0319	2010	2010
22-Jul-10		U	D	7.0	7	AC	500	1500	1.20	5	N	N	965000000071730	Y-RL10-0302	2010	2010
22-Jul-10		L	D	7.0	8	AC	266	153	0.81	-	N	Y	965000000069181	Y-RL10-0303	2010	2010
22-Jul-10		L	D	7.0	9	AC	234	96	0.75	-	N	Y	965000000071229	Y-RL10-0312	2010	2010
22-Jul-10		L	D	7.0	10	AC	275	175	0.84	-	N	Y	965000000065207	Y-RL10-0329	2010	2010
22-Jul-10		L	D	7.0	11	AC	354	369	0.83	-	N	Y	965000000065967	Y-RL10-0321	2010	2010
22-Jul-10		U	U	7.0	12	AC	912	9300	1.23	12	N	N	965000000066251	Y-RL10-0302	2010	2010
22-Jul-10		U	U	7.0	13	AC	790	8500	1.72	-	N	Y	965000000070382	Y-RL10-0307	2010	2010
22-Jul-10		U	U	7.0	14	AC	750	5300	1.26	11	N	N	965000000069837	Y-RL10-0301	2010	2010
22-Jul-10		U	D	7.0	15	AC	260	198	1.13	-	N	N	965000000068642	Y-RL10-0476	2010	2010
22-Jul-10		U	D	7.0	16	AC	287	187	0.79	3	N	N	965000000070703	Y-RL10-0477	2010	2010
22-Jul-10		U	D	7.0	17	AC	187	53	0.81	3	N	N	965000000065847		2010	
22-Jul-10		U	D	7.0	18	AC	230	105	0.86		N	N	965000000070220		2010	
22-Jul-10		U	D	7.0	19	AC	297	212	0.81		N	N	965000000070841	Y-RL10-0487	2010	2010
22-Jul-10		U	D	7.0	20	AC	199	62	0.79	3	N	N	965000000064486		2010	
22-Jul-10		U	D	7.0	21	AC	305	203	0.72		N	N	965000000071443	Y-RL10-0479	2010	2010
22-Jul-10		U	D	7.0	22	AC	217	80	0.78	2	N	N	965000000064736	Y-RL10-0480	2010	2010
22-Jul-10		U	D	7.0	23	AC	239	96	0.70	3	N	N	965000000067483		2010	
22-Jul-10		U	D	7.0	24	AC	224	84	0.75	-	N	N	965000000070988		2010	
23-Jul-10		L	U	8.0	1	LT	571	3600	1.93		N	Y	985120031630304	G-4889	2007	2007
23-Jul-10		L	U	8.0	2	AC	834	9500	1.64	12	N	N	965000000072820	Y-RL10-0480	2010	2010
23-Jul-10		L	U	8.0	3	LT	666	5400	1.83	-	N	Y	985153000021042	G-4884	2007	2007
23-Jul-10		L	U	8.0	4	LT	576	3700	1.94	-	N	Y	985153000021428	G-3994	2007	2007
23-Jul-10		L	D	8.0	5	AC	294	207	0.81	-	N	Y	965000000068642	Y-RL10-0476	2010	2010
23-Jul-10		L	D	8.0	6	AC	-	-	-	3	N	Y	-	Y-RL10-3090		2010
23-Jul-10		U	U	8.0	7	LT	814	5900	1.09	-	N	Y	965000000069905	Y-RL10-0308	2010	2010
23-Jul-10		U	U	8.0	8	LT	582	2100	1.07	-	N	Y	985153000021489	G-3983	2007	2007
23-Jul-10		U	U	8.0	9	LT	575	2400	1.26	-	N	Y	985153000021455	G-3989	2007	2007
23-Jul-10		U	D	8.0	10	AC	340	314	0.80	-	N	N	965000000071019	Y-RL10-0481	2010	2010
23-Jul-10		L	D	8.0	-	LW	-	-	-	-	N	-	-			
24-Jul-10		L	U	12.0	1	LT	547	2900	1.77	-	N	Y	985153000021467	B-045	2007	2000
24-Jul-10		L	U	12.0	2	AC	728	6300	1.63	9	N	N	965000000069186	Y-RL10-0482	2010	2010
24-Jul-10		L	U	12.0	3	LT	556	2500	1.45	13	N	Y	965000000066925	Y-RL10-0483	2010	2010
24-Jul-10		L	U	12.0	4	LT	640	3900	1.49	-	N	Y	985153000021482	G-4895	2007	2007
24-Jul-10		L	U	12.0	5	LT	500	2300	1.84	-	N	Y	985120031599158	G-4016	2007	2004
24-Jul-10		L	D	12.0	6	AC	399	501	0.79	-	N	Y	965000000713085	Y-RL10-0322	2010	2010
24-Jul-10		U	U	12.0	7	AC	808	7700	1.46	-	N	Y	965000000065577	Y-RL10-0776	2010	2010
24-Jul-10		U	U	12.0	8	AC	423	800	1.06	5	N	N	965000000065716	Y-RL10-0484	2010	2010
24-Jul-10		U	U	12.0	9	LT	760	4700	1.07	29	N	N	965000000071698	Y-RL10-0485	2010	2010
24-Jul-10		U	U	12.0	10	LT	566	3700	2.04	-	N	Y	985153000021447	G-4055	2007	2004
24-Jul-10		U	D	12.0	11	LT	665	3900	1.33	25	N	N	965000000065842	Y-RL10-0486	2010	2010
25-Jul-10		L	U	12.0	1	LT	565	3500	1.94	24	N	N	965000000068398	Y-RL10-0487	2010	2010
25-Jul-10		U	U	12.0	2	AC	624	5600	2.30	9	N	N	965000000072209	Y-RL10-0488	2010	2010
25-Jul-10		U	U	12.0	3	LT	785	4500	0.93	-	N	Y	985120031657003	Y-RL10-0785	2007	2010
25-Jul-10		U	U	12.0	4	LT	557	2500	1.45	-	N	Y	965000000066925	Y-RL10-0483	2010	2010
25-Jul-10		U	U	12.0	5	LT	371	510	1.00	11	N	N	965000000071563	Y-RL10-0489	2010	2010
25-Jul-10		U	U	12.0	6	LT	582	2900	1.47	-	N	Y	985120031623702	G-3809	2007	2007
25-Jul-10		U	U	12.0	7	LT	573	3300	1.75	-	N	Y	985153000021438	G-4266	2007	2005
25-Jul-10		U	D	12.0	8	AC	350	351	0.82	3	N	N	965000000071895	Y-RL10-0499	2010	2010
26-Jul-10		L	U	11.0	1	LT	540	3300	2.10	-	N	Y	985153000021422	G-4034	2007	2004
26-Jul-10		U	U	11.0	2	AC	724	6300	1.66	9	N	N	965000000069744	Y-RL10-0498	2010	2010
26-Jul-10		L	D	11.0	3	LT	-	-	-	-	N	Y	965000000071652	Y-RL10-0794	2010	2010
26-Jul-10		U	U	11.0	4	LT	555	2700	1.58	-	N	Y	985153000021068	B-028	2007	2000
26-Jul-10		U	U	11.0	5	LT	635	3900	1.52	-	N	Y	985153000021098	G-4895	2010	2007
26-Jul-10		U	U	11.0	6	LT	663	4500	1.54	-	N	Y	985153000021042	G-4884	2007	2007
26-Jul-10		U	U	11.0	7	LT	565	3100	1.72	-	N	Y	985153000021460	G-3988	2007	2007
26-Jul-10		U	U	11.0	8	LT	610	3300	1.45	-	N	Y	985153000021435	G-3992	2007	2007
26-Jul-10		U	U	11.0	9	AC	677	4700	1.51	-	N	Y	965000000071417	Y-RL10-0784	2010	2010
26-Jul-10		U	U	11.0	10	LT	591	3500	1.70	-	N	Y	985153000021495	G-3990	2007	2007
26-Jul-10		U	U	11.0	11	AC	731	5900	1.51	-	N	Y	965000000010153	Y-RL10-0345	2010	2010
26-Jul-10		U	U	11.0	12	LT	534	2900	1.90	14	N	N	965000000070805	Y-RL10-0497	2010	2010
26-Jul-10		U	D	11.0	13	AC	191	53	0.76	2	N	N	965000000069327		2010	
26-Jul-10		U	D	11.0	14	LT	525	911	0.63	14	N	N	965000000069605	Y-RL10-0496	2010	2010
26-Jul-10		U	D	11.0	15	AC	120	15	0.87	1	N	N	965000000069215		2010	
26-Jul-10		U	D	11.0	16	AC	366	409	0.83	5	N	N	965000000065843	Y-RL10-0495	2010	2010
27-Jul-10		L	U	11.0	1	LT	534	1200	0.79	11	N	N	965000000070682	Y-RL10-0493	2010	2010
27-Jul-10		L	U	11.0	2	LT	540	1600	1.02	14	N	N	965000000071738	Y-RL10-0492	2010	2010
27-Jul-10		L	U	11.0	3	LT	497	700	0.57	14	N	N	965000000070602	Y-RL10-0491	2010	2010
27-Jul-10		L	U	11.0	4	LT	478	400	0.37	20	N	N	965000000065707	Y-RL10-0490	2010	2010
27-Jul-10		L	U	11.0	5	LT	627	2100	0.85	25	N	N	965000000068897	Y-RL10-0501	2010	2010
27-Jul-10		L	U	11.0	6	LT	509	2000	1.52	-	N	N	965000000066513	Y-RL10-0502	2010	2010
27-Jul-10		L	U	11.0	7	LT	508	2500	1.91	18	N	N	965000000071348	Y-RL10-0503	2010	2010
27-Jul-10		L	U	11.0	8	LT	481	2100	1.89	13	N	N	965000000070089	Y-RL10-0504	2010	2010
27-Jul-10		U	U	11.0	9	AC	759	7500	1.72	13	N	N	965000000069474	Y-RL10-0505	2010	2010
27-Jul-10		U	U	11.0	10	LT	510	2500	1.88	15	N	N	965000000067065	Y-RL10-0506	2010	2010
27-Jul-10		U	U	11.0	11	AC	875	9300	1.39	-	N	Y	965000000066652	Y-RL10-0326	2010	2010
27-Jul-10		U	U	11.0	12	AC	829	7700	1.35	-	N	Y	965000000072820	Y-RL10-0480	2010	2010
27-Jul-10		U	U	11.0	13	LT	527	2700	1.84	32	N	Y	985120031587003	Y-RL10-0507	2007	2010
27-Jul-10		U	U	11.0	14	LT	665	3400	1.16	-	N	Y	-	G-4064		2004
27-Jul-10		U	U	11.0	15	LT	550	2000	1.20	-	N	Y	965000000068398	Y-RL10-0487	2010	2010
27-Jul-10		U	U	11.0	16	LT	565	3400	1.89	-	N	Y	985120031630304	G-4889	2007	2007
27-Jul-10		U	U	11.0	17	LT	679	4500	1.44	-	N	Y	985153000021475	G-3985	2007	2007
27-Jul-10		U	U	11.0	18	LT	538	2000	1.28	-	N	Y	985153000021422	G-4034	2007	2004
27-Jul-10		U	U	11.0	19	LT	493	1900	1.59	-	N	Y	985153000021446	G-4312	2007	2005
27-Jul-10		U	U	11.0	20	LT	587	2400	1.19	18	N	N	965000000071203	Y-RL10-0508	2010	2010
27-Jul-10		U	U	11.0	21	LT	596	3500	1.65	30	N	N	965000000069901	Y-RL10-0509	2010	2010
27-Jul-10		U	U	11.0	22	AC	723	6000	1.59	-	N	Y	965000000069744	Y-RL10-0498	2010	2010
27-Jul-10		U	U	11.0	23	LT	521	1900	1.34	9	N	N	965000000068804	Y-RL10-0510	2010	2010
27-Jul-10		U	U	11.0	24	AC	725	5600	1.47	-	N	Y	965000000069186	Y-RL10-0482	2010	2010
27-Jul-10		U	U	11.0	25	LT	661	3600	1.25	-	N	Y	965000000065971	Y-RL10-0339	2010	2010
27-Jul-10		U	U	11.0	26	LT	610	2200	0.97	-	N	Y	965000000070509	Y-RL10-0778	2010	2010
27-Jul-10		L	D	11.0	27	LT	525	1500	1.04	-	N	Y	965000000070682	Y-RL10-0493	2010	2010
28-Jul-10		L	U	14.0	1	AC	776	3700	0.79	-	N	Y	965000000008850			
28-Jul-10		L	U	14.0	2	LT	560	1900	1.08	14	N	N	965000000070270		2010	
28-Jul-10		L	U	14.0	3	LT	591	-	-	18	N	N	965000000065209		2010	

Species Code: AC = Arctic char, LT = lake trout, LW = lake whitefish, RW = round whitefish, CISC = least cisco, SC = saffron cod

Box Location: L = Lower, U = Upper

Fish Direction: D = Downstream, U = Upstream

Y = yes, N = no

Dashes indicate not applicable

Appendix 7. Biological and Tagging Data from Fish Fences in Roberts Outflow, Doris North Project, 2012

Date (dd/mm/yy)	Time (24 hr clock)	Box Location (U/L)	Fish Direction (U/D)	Water Temp (˚C)	Unique Sample No.	Species Code	Fork Length (mm)	Weight (g)	Condition (K)	Age (years)	Mortality (Y/N)	Recap (Y/N)	PIT Tag No.	Floy Tag No.	PIT Tag Year	Floy Tag Year
28-Jul-10		U	U	14.0	4	LT	515	-	-	-	N	Y	965000000071348	Y-RL10-0503	2010	2010
28-Jul-10		U	U	14.0	5	AC	436	-	-	-	N	Y	965000000088878	Y-RL10-0775	2010	2010
28-Jul-10		U	U	14.0	6	LT	461	-	-	-	N	Y	965000000067798		2010	
28-Jul-10		U	U	14.0	7	AC	266	-	-	2	N	N	965000000071761		2010	
28-Jul-10		U	U	14.0	8	AC	151	-	-	2	N	N	965000000070454		2010	
29-Jul-10		L	U	14.0	1	LT	588	3700	1.82	20	N	N	965000000069230	Y-RL10-0527	2010	2010
29-Jul-10		L	U	14.0	2	LT	487	1900	1.65	19	N	N	965000000071691	Y-RL10-0528	2010	2010
29-Jul-10		U	U	14.0	3	LT	568	2900	1.58	-	N	Y	965000000066514	Y-RL10-0341	2010	2010
29-Jul-10		U	U	14.0	4	LT	491	1900	1.61	-	N	Y	985120031599158	G-4016	2007	2004
29-Jul-10		U	U	14.0	5	AC	593	3500	1.68	7	N	N	965000000069194	Y-RL10-0529	2010	2010
29-Jul-10		U	U	14.0	6	LT	455	1700	1.80	14	N	N	965000000070205	Y-RL10-0530	2010	2010
29-Jul-10		U	D	14.0	7	AC	177	48	0.87	2	N	N	965000000070969		2010	
29-Jul-10		U	D	14.0	8	AC	197	72	0.94	2	N	N	965000000071096		2010	
29-Jul-10		U	D	14.0	9	AC	201	68	0.84	2	N	N	965000000073034		2010	
29-Jul-10		U	D	14.0	10	AC	187	53	0.81	3	N	N	965000000065568		2010	
30-Jul-10		L	U	15.0	1	AC	681	3600	1.14	10	N	N	965000000065710	Y-RL10-0534	2010	2010
30-Jul-10		L	U	15.0	2	LT	456	2000	2.11	-	N	Y	985120031587303		2007	
30-Jul-10		L	U	15.0	3	LT	524	2500	1.74	14	N	N	965000000089762	Y-RL10-0535	2010	2010
30-Jul-10		U	U	15.0	4	LT	-	-	-	-	N	Y	965000000069230	Y-RL10-0527	2010	2010
30-Jul-10		U	U	15.0	5	LT	-	-	-	-	N	Y	965000000070682	Y-RL10-0493	2010	2010
30-Jul-10		U	U	15.0	6	LT	632	2700	1.07	15	N	N	965000000069965	Y-RL10-0536	2010	2010
1-Aug-10		L	U	10.0	1	AC	88	8	1.17	0	N	-	-			
1-Aug-10		U	U	10.0	2	LT	476	1600	1.48	14	N	Y	965000000065707	Y-RL10-0490	2010	2010
3-Aug-10		L	U	10.0	1	AC	833	8500	1.47	14	N	N	965000000092807	Y-RL10-0544	2010	2010
3-Aug-10		L	U	10.0	2	AC	710	6500	1.82	10	N	N	965000000071971	Y-RL10-0545	2010	2010
3-Aug-10		L	U	10.0	3	AC	691	6200	1.88	10	N	N	965000000083857	Y-RL10-0546	2010	2010
3-Aug-10		U	U	10.0	4	AC	860	7700	1.21	12	N	N	965000000065566	Y-RL10-0547	2010	2010
4-Aug-10		L	U	9.0	1	LT	405	800	1.20	15	N	N	965000000066934	Y-RL10-0548	2010	2010
4-Aug-10		L	U	9.0	2	AC	658	5700	2.00	7	N	N	965000000072749	Y-RL10-0549	2010	2010
4-Aug-10		L	U	9.0	3	LT	489	2300	1.97	11	N	N	965000000069582	Y-RL10-0550	2010	2010
4-Aug-10		U	U	9.0	4	AC	766	8200	1.82	8	N	N	965000000070942	Y-RL10-0401	2010	2010
4-Aug-10		U	U	9.0	5	AC	720	5800	1.55	15	N	N	965000000085176	Y-RL10-0402	2010	2010
4-Aug-10		U	U	9.0	6	LT	-	-	-	-	N	Y	965000000066513	Y-RL10-0502	2010	2010
4-Aug-10		U	U	9.0	7	LT	461	1500	1.53	10	N	N	965000000089654	Y-RL10-0403	2010	2010
4-Aug-10		U	U	9.0	8	LT	545	2300	1.42	12	N	N	965000000068892	Y-RL10-0404	2010	2010
4-Aug-10		U	U	9.0	9	LT	397	900	1.44	8	N	N	965000000076952	Y-RL10-0405	2010	2010
4-Aug-10		U	U	9.0	10	LT	501	1700	1.35	12	N	N	965000000067479	Y-RL10-0407	2010	2010
4-Aug-10		U	U	9.0	11	LT	467	1600	1.57	14	N	N	965000000072444	Y-RL10-0408	2010	2010
5-Aug-10		U	U	9.0	1	AC	699	5600	1.64	9	N	N	965000000086868	Y-RL10-0409	2010	2010
5-Aug-10		U	U	9.0	2	AC	778	7600	1.61	12	N	N	965000000070703	Y-RL10-0410	2010	2010
6-Aug-10		L	U	9.5	1	AC	752	6500	1.53	12	N	Y	985120031586231	G-3846	2007	2007
6-Aug-10		U	U	9.5	2	AC	764	5500	1.23	13	N	N	965000000064850	Y-RL10-0411	2010	2010
6-Aug-10		U	U	9.5	3	AC	617	4500	1.92	6	N	N	965000000090836	Y-RL10-0412	2010	2010
6-Aug-10		U	U	9.5	4	AC	816	8500	1.56	11	N	Y	985120031632160	G-3815	2007	2007
6-Aug-10		U	U	9.5	5	AC	784	5500	1.14	11	N	Y	-	G-4288		2005
6-Aug-10		U	U	9.5	6	LT	495	1500	1.24	16	N	Y	-	G-4365		2005
6-Aug-10		U	U	9.5	7	AC	688	6000	1.84	9	N	N	965000000069957	Y-RL10-0413	2010	2010
6-Aug-10		U	U	9.5	8	LT	460	1500	1.54	-	N	N	965000000072150	Y-RL10-0414	2010	2010
6-Aug-10		U	U	9.5	9	AC	797	8500	1.68	15	N	N	965000000085858	Y-RL10-0415	2010	2010
6-Aug-10		U	U	9.5	10	LT	440	1500	1.76	11	N	N	965000000009939	Y-RL10-0416	2010	2010
6-Aug-10		U	U	9.5	11	LT	500	1300	1.04	12	N	N	965000000072641	Y-RL10-0417	2010	2010
6-Aug-10		U	U	9.5	12	LT	615	2500	1.07	17	N	Y	985153000021457	G-3984	2007	2007
6-Aug-10		U	U	9.5	13	AC	698	5500	1.62	9	N	Y	-	G-3183		2003
6-Aug-10		U	U	9.5	14	AC	798	7600	1.50	10	N	Y	-	Y-RL10-0418		2010
7-Aug-10		U	U	10.2	1	LT	427	1300	1.67	13	N	N	965000000072751	Y-RL10-0419	2010	2010
7-Aug-10		U	U	10.2	2	AC	765	4000	0.89	8	N	N	965000000072226	Y-RL10-0420	2010	2010
7-Aug-10		U	U	10.2	3	AC	705	7500	2.14	-	N	Y	-	Golder tag*		UNK
7-Aug-10		U	U	10.2	4	LT	-	-	-	-	N	Y	965000000089762	Y-RL10-0535	2010	2010
7-Aug-10		U	U	10.2	5	AC	708	6300	1.78	8	N	N	965000000093183	Y-RL10-421	2010	2010
7-Aug-10		U	U	10.2	6	AC	750	6500	1.54	-	N	Y	-	Golder tag*		UNK
7-Aug-10		U	U	10.2	7	AC	717	6500	1.76	-	N	Y	-	G-4455		2005
7-Aug-10		U	U	10.2	8	AC	707	6200	1.75	7	N	N	965000000072495	Y-RL10-0422	2010	2010
7-Aug-10		U	U	10.2	9	LT	480	1300	1.18	18	N	N	965000000077507	Y-RL10-0423	2010	2010
7-Aug-10		U	U	10.2	10	AC	-	-	-	10	N	Y	965000000088550	Y-RL10-0769	2010	2010
7-Aug-10		U	U	10.2	11	AC	750	7000	1.66	11	N	N	965000000064967	Y-RL10-0424	2010	2010
7-Aug-10		L	U	10.2	12	AC	735	2500	0.63	-	N	N	965000000030268	Y-RL10-0425	2010	2010
7-Aug-10		L	U	10.2	13	LT	-	-	-	-	N	Y	985120031613687	Y-RL10-0305	2007	2010
8-Aug-10		L	U	12.0	1	LT	445	1500	1.70	-	N	Y	985153000021203	G-4867	2007	2007
8-Aug-10		L	U	12.0	2	LT	417	1000	1.38	-	N	N	965000000069625	Y-RL10-0431	2010	2010
8-Aug-10		L	U	12.0	3	LT	468	1500	1.46	-	N	N	965000000070203	Y-RL10-0427	2010	2010
8-Aug-10		U	U	12.0	4	LT	500	1700	1.36	-	N	N	965000000068947	Y-RL10-0428	2010	2010
8-Aug-10		U	U	12.0	5	LT	496	1800	1.48	-	N	N	965000000069320	Y-RL10-0429	2010	2010
8-Aug-10		U	U	12.0	6	AC	480	1600	1.45	-	N	N	965000000112717	Y-RL10-0430	2010	2010
8-Aug-10		U	U	12.0	7	AC	640	4500	1.72	-	N	N	965000000089352	Y-RL10-0434	2010	2010
8-Aug-10		U	U	12.0	8	LT	490	1700	1.44	-	N	N	965000000071381	Y-RL10-0435	2010	2010
8-Aug-10		U	U	12.0	9	AC	-	-	-	-	N	Y	965000000083857	Y-RL10-0546	2010	2010
8-Aug-10		U	U	12.0	10	LT	-	-	-	-	N	Y	965000000070203	Y-RL10-0427	2010	2010
8-Aug-10		U	U	12.0	11	AC	650	5000	1.82	-	N	N	965000000071839	Y-RL10-0433	2010	2010
8-Aug-10		U	U	12.0	12	LT	520	1700	1.21	-	N	Y	-	G-3382		2003
8-Aug-10		L	U	12.0	13	AC	-	-	-	-	N	Y	965000000071971	Y-RL10-0545	2010	2010
8-Aug-10		U	U	12.0	14	LT	449	1600	1.77	-	N	N	965000000070115	Y-RL10-0432	2010	2010
8-Aug-10		U	U	12.0	15	AC	-	-	-	-	N	Y	965000000092807	Y-RL10-0544	2010	2010
10-Aug-10		U	U	14.0	1	AC	776	7600	1.63	-	N	N	965000000076431	Y-RL10-0437	2010	2010
10-Aug-10		U	U	14.0	2	AC	781	7000	1.47	-	N	N	965000000088780	Y-RL10-0438	2010	2010
10-Aug-10		U	U	14.0	3	AC	720	6300	1.69	-	N	N	965000000087301	Y-RL10-0439	2010	2010
10-Aug-10		U	U	14.0	4	AC	743	6500	1.58	-	N	N	965000000082063	Y-RL10-0440	2010	2010
10-Aug-10		U	U	14.0	5	AC	865	9500	1.47	-	N	N	965000000071922	Y-RL10-0441	2010	2010
10-Aug-10		U	U	14.0	6	AC	805	8500	1.63	-	N	N	965000000110108	Y-RL10-0442	2010	2010
10-Aug-10		U	U	14.0	7	AC	-	-	-	-	N	Y	985120031607457	G-3836	2007	2007
10-Aug-10		U	U	14.0	8	AC	618	4300	1.82	-	N	N	965000000068732	Y-RL10-0443	2010	2010
10-Aug-10		U	U	14.0	9	AC	814	8500	1.58	-	N	N	965000000111057	Y-RL10-0444	2010	2010
10-Aug-10		U	U	14.0	10	AC	735	7500	1.89	-	N	N	965000000009671	Y-RL10-0445	2010	2010
10-Aug-10		U	U	14.0	11	LT	497	2000	1.63	-	N	N	965000000090963	Y-RL10-0446	2010	2010
10-Aug-10		U	U	14.0	12	LT	-	-	-	-	N	Y	965000000069625	Y-RL10-0431	2010	2010
10-Aug-10		U	U	14.0	13	LT	-	-	-	-	N	Y	985120031605864	Y-RL10-0447	2007	2010
10-Aug-10		U	U	14.0	14	LT	498	1600	1.30	-	N	N	965000000071531	Y-RL10-0448	2010	2010
11-Aug-10		L	U	13.0	1	LT	470	1500	1.44	-	N	N	965000000071283	Y-RL10-0449	2010	2010
11-Aug-10		L	U	13.0	2	LT	438	1500	1.79	-	N	N	965000000067478		2010	
11-Aug-10		U	U	13.0	3	AC	540	2500	1.59	-	N	N	965000000010154	Y-RL10-0450	2010	2010

Species Code: AC = Arctic char, LT = lake trout, LW = lake whitefish, RW = round whitefish, CISC = least cisco, SC = saffron cod

Box Location: L = Lower, U = Upper

Fish Direction: D = Downstream, U = Upstream

Y = yes, N = no

Dashes indicate not applicable

Appendix 7. Biological and Tagging Data from Fish Fences in Roberts Outflow, Doris North Project, 2012

Date (dd/mm/yy)	Time (24 hr clock)	Box Location (U/L)	Fish Direction (U/D)	Water Temp (˚C)	Unique Sample No.	Species Code	Fork Length (mm)	Weight (g)	Condition (K)	Age (years)	Mortality (Y/N)	Recap (Y/N)	PIT Tag No.	Floy Tag No.	PIT Tag Year	Floy Tag Year
11-Aug-10		U	U	13.0	4	AC	752	6000	1.41	-	N	N	965000000069221	Y-RL10-0826	2010	2010
11-Aug-10		U	U	13.0	5	RDWH	538	2000	1.28	-	N	-	-			
11-Aug-10		U	U	13.0	6	AC	-	-	-	-	N	Y	-	Y-RL10-0524		2010
11-Aug-10		U	U	13.0	7	AC	535	2100	1.37	-	N	N	965000000069447	Y-RL10-0827	2010	2010
11-Aug-10		U	U	13.0	8	AC	830	8500	1.49	-	N	N	965000000010027	Y-RL10-0828	2010	2010
11-Aug-10		U	U	13.0	9	AC	749	6200	1.48	-	N	N	965000000111613	Y-RL10-0829	2010	2010
11-Aug-10		U	U	13.0	10	AC	-	-	-	-	N	Y	965000000072749	Y-RL10-0549	2010	2010
11-Aug-10		U	U	13.0	11	AC	665	5000	1.70	-	N	N	965000000084134	Y-RL10-0830	2010	2010
11-Aug-10		U	U	13.0	12	AC	632	4800	1.90	-	N	N	965000000071195	Y-RL10-0831	2010	2010
11-Aug-10		U	U	13.0	13	LT	441	1300	1.52	-	N	N	965000000064369	Y-RL10-0832	2010	2010
11-Aug-10		U	U	13.0	14	AC			-	-	N	Y	985120031624204	Y-RL10-0833	2007	2010
12-Aug-10		U	U	11.0	1	AC	680	5600	1.78	-	N	Y	985120031587705	Y-RL10-0836	2007	2010
12-Aug-10		U	U	11.0	2	LT	610	2500	1.10	-	N	N	965000000090838	Y-RL10-0837	2010	2010
12-Aug-10		U	U	11.0	3	LT	450	1600	1.76	-	N	N	965000000068822	Y-RL10-0838	2010	2010
12-Aug-10		U	U	11.0	4	AC	820	9500	1.72	-	N	N	965000000070471	Y-RL10-0839	2010	2010
12-Aug-10		U	U	11.0	5	LT	420	1400	1.89	-	N	N	965000000072235	Y-RL10-0840	2010	2010
12-Aug-10		U	U	11.0	6	AC	838	9300	1.58	-	N	N	965000000072119	Y-RL10-0841	2010	2010
12-Aug-10		U	U	11.0	7	AC	770	7600	1.66	-	N	N	965000000068374	Y-RL10-0842	2010	2010
12-Aug-10		U	U	11.0	8	AC	686	6800	2.11	-	N	N	965000000093879	Y-RL10-0843	2010	2010
12-Aug-10		U	U	11.0	9	AC	780	8700	1.83	-	N	N	965000000070847	Y-RL10-0844	2010	2010
12-Aug-10		U	U	11.0	10	AC	681	5700	1.80	-	N	N	965000000066924	Y-RL10-0845	2010	2010
12-Aug-10		U	U	11.0	11	AC	605	3700	1.67	-	N	N	965000000067797	Y-RL10-0846	2010	2010
12-Aug-10		U	U	11.0	12	AC	405	1300	1.96	-	N	N	965000000066109	Y-RL10-0847	2010	2010
12-Aug-10		U	U	11.0	13	AC	-	-	-	-	N	Y	-	G-4203		2004
12-Aug-10		U	U	11.0	14	LT	395	1200	1.95	-	N	N	965000000069961	Y-RL10-0848	2010	2010
12-Aug-10		U	U	11.0	15	LT	471	1500	1.44	-	N	N	965000000077669	Y-RL10-0849	2010	2010
13-Aug-10		L	U	11.5	1	AC	741	7500	1.84	-	N	N	965000000084599	Y-RL10-0850	2010	2010
13-Aug-10		L	U	11.5	2	AC	518	2900	2.09	-	N	N	965000000076840	Y-RL10-0125	2010	2010
13-Aug-10		L	U	11.5	3	LT	482	2500	2.23	-	N	N	965000000064367	Y-RL10-0124	2010	2010
13-Aug-10		L	D	11.5	4	LT	471	1500	1.44	-	N	Y	965000000071283	Y-RL10-0449	2010	2010
13-Aug-10		U	U	11.5	5	LT	634	3100	1.22	-	N	Y	965000000068897	Y-RL10-0501	2010	2010
13-Aug-10		U	U	11.5	6	LT	693	4500	1.35	-	N	Y	-	O-0908		
13-Aug-10		U	U	11.5	7	AC	670	6300	2.09	-	N	N	965000000070914	Y-RL10-0123	2010	2010
13-Aug-10		U	U	11.5	8	AC	464	2000	2.00	-	N	N	965000000069735	Y-RL10-0122	2010	2010
13-Aug-10		U	U	11.5	9	LT	455	1500	1.59	-	N	N	965000000071455	Y-RL10-0121	2010	2010
13-Aug-10		U	U	11.5	10	AC	276	267	1.27	-	N	N	965000000077223		2010	
14-Aug-10		U	U	11.0	1	AC	748	7600	1.82	-	N	Y	985153000021445	G-4678	2007	2006
14-Aug-10		U	U	11.0	2	AC	443	1700	1.96	-	N	N	965000000069505	Y-RL10-0101	2010	2010
14-Aug-10		U	U	11.0	3	AC	309	700	2.37	-	N	N	965000000070712	Y-RL10-0102	2010	2010
14-Aug-10		L	U	11.0	4	AC	694	6500	1.94	-	N	N	965000000078318	Y-RL10-0103	2010	2010
15-Aug-10		L	U	11.0	1	AC	815	8600	1.59	12	N	Y	985120031581259	G-3964	2007	2007
15-Aug-10		L	U	11.0	2	AC	734	6400	1.62	11	N	N	965000000070346	Y-RL10-0104	2010	2010
15-Aug-10		L	U	11.0	3	AC	585	3500	1.75	8	N	N	965000000066110	Y-RL10-0106	2010	2010
15-Aug-10		L	U	11.0	4	AC	527	2700	1.84	5	N	N	965000000088255	Y-RL10-0107	2010	2010
15-Aug-10		L	U	11.0	5	AC	692	6000	1.81	6	N	N	965000000089515	Y-RL10-0108	2010	2010
15-Aug-10		L	U	11.0	6	AC	739	7400	1.83	11	N	N	965000000089013	Y-RL10-0109	2010	2010
15-Aug-10		L	U	11.0	7	AC	668	4000	1.34	12	N	N	965000000071418	Y-RL10-0111	2010	2010
15-Aug-10		L	U	11.0	8	AC	710	6600	1.84	7	N	N	965000000080866	Y-RL10-0112	2010	2010
15-Aug-10		L	U	11.0	9	AC	751	6000	1.42	12	N	N	965000000086011	Y-RL10-0113	2010	2010
15-Aug-10		L	U	11.0	10	AC	646	4400	1.63	7	N	N	965000000071740	Y-RL10-0114	2010	2010
15-Aug-10		U	U	11.0	11	LT	392	1100	1.83	12	N	N	965000000069322	Y-RL10-0116	2010	2010
15-Aug-10		U	U	11.0	12	AC	-	-	-	-	N	Y	965000000078318	Y-RL10-0103	2010	2010
16-Aug-10		U	U	12.0	1	AC	758	7800	1.79	-	N	N	965000000085131	Y-RL10-0127	2010	2010
16-Aug-10		U	U	12.0	2	AC	807	8300	1.58	-	N	Y	985120031581259		2007	
16-Aug-10		U	U	12.0	3	AC	-	-	-	-	N	Y	965000000071418	Y-RL10-0111	2010	2010
16-Aug-10		U	U	12.0	4	AC	434	1700	2.08	-	N	N	965000000068627	Y-RL10-0128	2010	2010
16-Aug-10		U	U	12.0	5	AC	458	1700	1.77	-	N	N	965000000072022	Y-RL10-0129	2010	2010
16-Aug-10		U	U	12.0	6	AC	-	-	-	-	N	Y	965000000070346	Y-RL10-0104	2010	2010
16-Aug-10		U	U	12.0	7	AC	-	-	-	-	N	Y	965000000071740	Y-RL10-0131	2010	2010
16-Aug-10		U	U	12.0	8	AC	608	2600	1.16	-	N	Y	-	G-4245		2004
16-Aug-10		U	U	12.0	9	AC	-	-	-	-	N	Y	965000000080866	Y-RL10-0132	2010	2010
16-Aug-10		U	U	12.0	10	AC	-	-	-	-	N	Y	965000000089515	Y-RL10-0108	2010	2010
16-Aug-10		U	U	12.0	11	AC	-	-	-	-	N	Y	965000000089013	Y-RL10-0109	2010	2010
16-Aug-10		U	U	12.0	12	AC	477	2100	1.93	-	N	N	965000000065585	Y-RL10-0133	2010	2010
16-Aug-10		U	U	12.0	13	AC	413	1000	1.42	-	N	N	965000000069952	Y-RL10-0134	2010	2010
16-Aug-10		L	U	12.0	14	AC	582	3900	1.98	-	N	N	965000000072824	Y-RL10-0135	2010	2010
16-Aug-10		L	U	12.0	15	AC	746	6700	1.61	-	N	Y	985120031661438	G-3970	2007	2007
16-Aug-10		L	U	12.0	16	AC	631	4700	1.87	-	N	N	965000000070588	Y-RL10-0137	2010	2010
16-Aug-10		L	U	12.0	17	AC	508	2500	1.91	-	N	N	965000000072504	Y-RL10-0138	2010	2010
16-Aug-10		L	U	12.0	18	AC	570	3400	1.84	-	N	N	965000000069184	Y-RL10-0139	2010	2010
16-Aug-10		L	U	12.0	19	AC	545	2800	1.73	-	N	N	965000000065717	Y-RL10-0140	2010	2010
16-Aug-10		L	U	12.0	20	AC	590	4500	2.19	-	N	N	965000000078230	Y-RL10-0141	2010	2010
16-Aug-10		L	U	12.0	21	AC	545	3300	2.04	-	N	N	965000000070267	Y-RL10-0142	2010	2010
16-Aug-10		L	U	12.0	22	AC	577	3500	1.82	-	N	N	965000000084573	Y-RL10-0143	2010	2010
16-Aug-10		L	U	12.0	23	AC	725	5800	1.52	-	N	N	965000000080633	Y-RL10-0144	2010	2010
16-Aug-10		L	U	12.0	24	AC	593	3800	1.82	-	N	N	965000000084611	Y-RL10-0145	2010	2010
16-Aug-10		L	U	12.0	25	AC	548	2700	1.64	-	N	N	965000000066113	Y-RL10-0146	2010	2010
17-Aug-10		L	U	11.0	1	AC	820	9000	1.63	11	N	N	965000000070324	Y-RL10-0148	2010	2010
17-Aug-10		L	U	11.0	3	AC	651	4400	1.59	8	N	N	965000000070679	Y-RL10-0149	2010	2010
17-Aug-10		L	U	11.0	4	AC	650	4800	1.75	6	N	N	965000000087125	Y-RL10-0150	2010	2010
17-Aug-10		L	U	11.0	5	AC	521	2600	1.84	5	N	N	965000000069037	Y-RL10-0801	2010	2010
17-Aug-10		L	U	11.0	6	AC	585	3500	1.75	5	N	N	965000000079456	Y-RL10-0215	2010	2010
17-Aug-10		L	U	11.0	7	AC	528	2500	1.70	6	N	N	965000000072779	Y-RL10-0803	2010	2010
17-Aug-10		L	U	11.0	8	AC	725	5300	1.39	NA	N	N	965000000088905	Y-RL10-0804	2010	2010
17-Aug-10		L	U	11.0	9	AC	589	3900	1.91		N	N	965000000065220	Y-RL10-0805	2010	2010
17-Aug-10		L	U	11.0	10	AC	522	2700	1.90	5	N	N	965000000111489	Y-RL10-0807	2010	2010
17-Aug-10		L	U	11.0	11	AC	571	4200	2.26	6	N	N	965000000082260	Y-RL10-0808	2010	2010
17-Aug-10		L	U	11.0	12	AC	547	3400	2.08	6	N	N	965000000072177	Y-RL10-0809	2010	2010
17-Aug-10		L	U	11.0	13	AC	524	2500	1.74	5	N	N	965000000065977	Y-RL10-0810	2010	2010
17-Aug-10		L	U	11.0	14	AC	558	3200	1.84	5	N	N	965000000069011	Y-RL10-0811	2010	2010
17-Aug-10		L	U	11.0	15	AC	580	2700	1.38	5	N	N	965000000091950	Y-RL10-0812	2010	2010
17-Aug-10		L	U	11.0	16	AC	628	4500	1.82	6	N	N	965000000068771	Y-RL10-0813	2010	2010
17-Aug-10		L	U	11.0	17	AC	564	3700	2.06	5	N	N	965000000021458	Y-RL10-0814	2010	2010
17-Aug-10		L	U	11.0	18	AC	549	3300	1.99	5	N	N	965000000070861	Y-RL10-0815	2010	2010
17-Aug-10		L	U	11.0	19	AC	630	4500	1.80	6	N	N	965000000069821	Y-RL10-0816	2010	2010
17-Aug-10		L	U	11.0	20	AC	617	4200	1.79	6	N	N	965000000088119	Y-RL10-0817	2010	2010
17-Aug-10		L	U	11.0	21	AC	626	4500	1.83	6	N	N	965000000069626	Y-RL10-0818	2010	2010
17-Aug-10		L	U	11.0	22	AC	718	5900	1.59	9	N	N	965000000002026	Y-RL10-0819	2010	2010
17-Aug-10		L	U	11.0	23	AC	638	4500	1.73	9	N	N	965000000071498	Y-RL10-0820	2010	2010

Species Code: AC = Arctic char, LT = lake trout, LW = lake whitefish, RW = round whitefish, CISC = least cisco, SC = saffron cod

Box Location: L = Lower, U = Upper

Fish Direction: D = Downstream, U = Upstream

Y = yes, N = no

Dashes indicate not applicable

Appendix 7. Biological and Tagging Data from Fish Fences in Roberts Outflow, Doris North Project, 2012

Date (dd/mm/yy)	Time (24 hr clock)	Box Location (U/L)	Fish Direction (U/D)	Water Temp (˚C)	Unique Sample No.	Species Code	Fork Length (mm)	Weight (g)	Condition (K)	Age (years)	Mortality (Y/N)	Recap (Y/N)	PIT Tag No.	Floy Tag No.	PIT Tag Year	Floy Tag Year
17-Aug-10		L	U	11.0	24	AC	730	7100	1.83	10	N	N	965000000070030	Y-RL10-0821	2010	2010
17-Aug-10		L	U	11.0	25	AC	605	4300	1.94	5	N	N	965000000072602	Y-RL10-0822	2010	2010
17-Aug-10		L	U	11.0	26	AC	520	2500	1.78	5	N	N	965000000069599	Y-RL10-0823	2010	2010
17-Aug-10		L	U	11.0	27	AC	705	6300	1.80	8	N	N	965000000009764	Y-RL10-0824	2010	2010
17-Aug-10		L	U	11.0	28	AC	730	7300	1.88	8	N	N	965000000092281	Y-RL10-0825	2010	2010
17-Aug-10		L	U	11.0	29	AC	558	3200	1.84	5	N	N	965000000070541	Y-RL10-0201	2010	2010
17-Aug-10		L	U	11.0	30	AC	690	5300	1.61	7	N	Y	-	G-1432		
17-Aug-10		L	U	11.0	31	AC	779	8500	1.80	-	N	N	965000000071034	Y-RL10-0202	2010	2010
17-Aug-10		L	U	11.0	32	AC	638	5100	1.96	5	N	N	965000000010012	Y-RL10-0203	2010	2010
17-Aug-10		L	U	11.0	33	AC	625	4500	1.84	6	N	N	965000000069420	Y-RL10-0204	2010	2010
17-Aug-10		L	U	11.0	34	AC	790	8500	1.72	11	N	N	965000000070915	Y-RL10-0205	2010	2010
17-Aug-10		L	U	11.0	35	AC	648	5500	2.02	5	N	N	965000000069172	Y-RL10-0206	2010	2010
17-Aug-10		L	U	11.0	36	AC	563	3500	1.96	5	N	Y	965000000070225	Y-RL10-0207	2010	2010
17-Aug-10		L	U	11.0	37	AC	634	5300	2.08	7	N	N	965000000070181	Y-RL10-0208	2010	2010
17-Aug-10		L	U	11.0	38	AC	558	3300	1.90	5	N	Y	985120031625937		2007	
17-Aug-10		L	U	11.0	39	AC	640	5300	2.02	7	N	N	965000000009936	Y-RL10-0209	2010	2010
17-Aug-10		L	U	11.0	40	AC	700	6300	1.84	8	N	N	965000000069867	Y-RL10-0210	2010	2010
17-Aug-10		L	U	11.0	41	AC	510	-	-	4	N	N	965000000069171	Y-RL10-0211	2010	2010
17-Aug-10		L	U	11.0	42	AC	539	3100	1.98	5	N	N	965000000065214	Y-RL10-0212	2010	2010
17-Aug-10		L	U	11.0	43	AC	667	5500	1.85	8	N	N	965000000071978	Y-RL10-0213	2010	2010
17-Aug-10		L	U	11.0	44	AC	594	3900	1.86	5	N	N	965000000092609	Y-RL10-0214	2010	2010
17-Aug-10		L	U	11.0	45	AC	585	3900	1.95	7	N	N	965000000071162	Y-RL10-0802	2010	2010
17-Aug-10		L	U	11.0	46	AC	559	3700	2.12	8	N	N	965000000066112	Y-RL10-0216	2010	2010
17-Aug-10		L	U	11.0	47	AC	740	6900	1.70	10	N	N	965000000076832	Y-RL10-0217	2010	2010
17-Aug-10		L	U	11.0	48	AC	543	3300	2.06	5	N	N	965000000071622	Y-RL10-0218	2010	2010
17-Aug-10		L	U	11.0	49	AC	696	6300	1.87	11	N	N	965000000072425	Y-RL10-0219	2010	2010
17-Aug-10		U	U	11.0	50	AC	-	-	-	-	N	Y	965000000065220	Y-RL10-0805	2010	2010
17-Aug-10		U	U	11.0	51	AC	-	-	-	-	N	Y	965000000088905	Y-RL10-0804	2010	2010
17-Aug-10		U	U	11.0	52	AC	-	-	-	-	N	Y	965000000021458	Y-RL10-0814	2010	2010
17-Aug-10		U	U	11.0	53	AC	-	-	-	-	N	Y	965000000070030	Y-RL10-0821	2010	2010
17-Aug-10		U	U	11.0	54	AC	-	-	-	-	N	Y	965000000069821	Y-RL10-0816	2010	2010
17-Aug-10		U	U	11.0	55	AC	-	-	-	-	N	Y	965000000111489	Y-RL10-0807	2010	2010
17-Aug-10		U	U	11.0	56	AC	-	-	-	-	N	Y	965000000002026	Y-RL10-0819	2010	2010
17-Aug-10		U	U	11.0	57	AC	-	-	-	-	N	Y	965000000086011	Y-RL10-0113	2010	2010
17-Aug-10		U	U	11.0	58	AC	-	-	-	-	N	Y	965000000069037	Y-RL10-0801	2010	2010
17-Aug-10		U	U	11.0	59	AC	-	-	-	-	N	Y	965000000084611	Y-RL10-0145	2010	2010
17-Aug-10		U	U	11.0	60	AC	-	-	-	-	N	Y	965000000072177	Y-RL10-0809	2010	2010
17-Aug-10		U	U	11.0	61	AC	-	-	-	-	N	Y	965000000084573	Y-RL10-0143	2010	2010
17-Aug-10		U	U	11.0	62	AC	-	-	-	-	N	Y	965000000078230	Y-RL10-0141	2010	2010
17-Aug-10		U	U	11.0	63	AC	-	-	-	-	N	Y	965000000092281	Y-RL10-0825	2010	2010
17-Aug-10		U	U	11.0	64	AC	-	-	-	-	N	Y	-	G-4132		2004
17-Aug-10		U	U	11.0	65	AC	495	2500	2.06	5	N	N	965000000086465	Y-RL10-0220	2010	2010
17-Aug-10		U	U	11.0	66	AC	616	3700	1.58	6	N	N	965000000070460	Y-RL10-0221	2010	2010
17-Aug-10		U	U	11.0	67	AC	771	7700	1.68	9	N	N	965000000068147	Y-RL10-0238	2010	2010
17-Aug-10		U	U	11.0	68	AC	639	4700	1.80	-	N	N	965000000071562	Y-RL10-0239	2010	2010
17-Aug-10		U	U	11.0	69	AC	739	6600	1.64	10	N	N	965000000066117	Y-RL10-0240	2010	2010
17-Aug-10		U	U	11.0	70	AC	429	1700	2.15	4	N	N	965000000071533	Y-RL10-0241	2010	2010
17-Aug-10		U	U	11.0	71	AC	494	2500	2.07	6	N	N	965000000072603	Y-RL10-0243	2010	2010
17-Aug-10		U	U	11.0	72	AC	485	2500	2.19	5	N	N	965000000661102	Y-RL10-0244	2010	2010
17-Aug-10		U	U	11.0	73	AC	484	2500	2.20	4	N	N	965000000072543	Y-RL10-0245	2010	2010
17-Aug-10		U	U	11.0	74	AC	-	-	-	-	N	Y	965000000065977	Y-RL10-0246	2010	2010
17-Aug-10		U	U	11.0	75	AC	440	1700	2.00	4	N	N	965000000112846	Y-RL10-0247	2010	2010
17-Aug-10		U	U	11.0	76	AC	589	4300	2.10	9	N	N	965000000070446	Y-RL10-0248	2010	2010
17-Aug-10		U	U	11.0	77	AC	453	-	-	5	N	N	965000000070246	Y-RL10-0249	2010	2010
17-Aug-10		U	U	11.0	78	AC	476	2300	2.13	5	N	N	965000000010429	Y-RL10-0250	2010	2010
17-Aug-10		U	U	11.0	79	AC	432	-	-	4	N	N	965000000072991	Y-RL10-0050	2010	2010
17-Aug-10		U	U	11.0	80	AC	514	2500	1.84	5	N	N	965000000069467	Y-RL10-0049	2010	2010
17-Aug-10		U	U	11.0	81	AC	460	2000	2.05	4	N	N	965000000002991	Y-RL10-0048	2010	2010
17-Aug-10		U	U	11.0	82	LT	-	-	-	-	N	Y	965000000071738	Y-RL10-0492	2010	2010
17-Aug-10		U	U	11.0	83	LT	-	-	-	-	N	Y	-	Y-RL10-0512		2010
17-Aug-10		U	U	11.0	84	LT	-	-	-	-	N	Y	965000000066934	Y-RL10-0548	2010	2010
17-Aug-10		U	U	11.0	85	LT	585	2800	1.40	22	N	Y	985153000021428	G-3994	2007	2007
17-Aug-10		U	U	11.0	86	LT	416	1500	2.08	14	N	N	965000000069964	Y-RL10-0242	2010	2010
17-Aug-10		U	U	11.0	87	LT	474	1700	1.60	13	N	Y	900026000149779	G-4342	2012	2005
17-Aug-10		U	U	11.0	88	LT	429	-	-	9	N	N	965000000070850	Y-RL10-0047	2010	2010
17-Aug-10		L	U	11.0	89	AC	719	5700	1.53	10	N	Y	985120031623378	G-4888	2007	2007
18-Aug-10		U	U	11.0	1	AC	-	-	-	-	N	Y	965000000079456	Y-RL10-0215	2010	2010
18-Aug-10		U	U	11.0	2	AC	-	-	-	-	N	Y	965000000072425	Y-RL10-0219	2010	2010
18-Aug-10		U	U	11.0	6	AC	-	-	-	-	N	Y	965000000069184	Y-RL10-0139	2010	2010
18-Aug-10		U	U	11.0	7	AC	-	-	-	-	N	Y	965000000070324	Y-RL10-0148	2010	2010
18-Aug-10		U	U	11.0	8	AC	-	-	-	-	N	Y	965000000087125	Y-RL10-0150	2010	2010
18-Aug-10		U	U	11.0	9	AC	-	-	-	-	N	Y	965000000070541	Y-RL10-0201	2010	2010
18-Aug-10		U	U	11.0	13	AC	704	5400	1.55	12	N	N	965000000069641	Y-RL10-0223	2010	2010
18-Aug-10		U	U	11.0	14	AC	434	1100	1.35	5	N	N	965000000069334	Y-RL10-0224	2010	2010
18-Aug-10		U	U	11.0	15	AC	-	-	-	-	N	Y	965000000069011	Y-RL10-0811	2010	2010
18-Aug-10		U	U	11.0	16	AC	506	1800	1.39	5	N	N	965000000077648	Y-RL10-0226	2010	2010
18-Aug-10		U	U	11.0	17	AC	804	7500	1.44	15	N	N	965000000088512	Y-RL10-0227	2010	2010
18-Aug-10		U	U	11.0	18	AC	657	5500	1.94	7	N	N	965000000072987	Y-RL10-0229	2010	2010
18-Aug-10		U	U	11.0	19	AC	462	1700	1.72	5	N	N	965000000110644	Y-RL10-0230	2010	2010
18-Aug-10		U	U	11.0	20	AC	483	2300	2.04	6	N	Y	985120031609300		2007	
18-Aug-10		U	U	11.0	21	AC	505	2500	1.94	4	N	N	965000000067987	Y-RL10-0231	2010	2010
18-Aug-10		U	U	11.0	22	AC	-	-	-	-	N	Y	965000000088119	Y-RL10-0817	2010	2010
18-Aug-10		U	U	11.0	22	AC	370	1000	1.97	5	N	N	965000000071697	Y-RL10-0232	2010	2010
18-Aug-10		U	U	11.0	23	AC	435	1500	1.82	5	N	N	965000000071620	Y-RL10-0233	2010	2010
18-Aug-10		U	U	11.0	25	AC	468	2000	1.95	4	N	N	965000000070943	Y-RL10-0235	2010	2010
18-Aug-10		L	U	11.0	26	AC	563	3500	1.96	5	N	N	965000000069777	Y-RL10-0046	2010	2010
18-Aug-10		U	U	11.0	26	AC	490	2500	2.12	4	N	N	965000000110926	Y-RL10-0236	2010	2010
18-Aug-10		L	U	11.0	27	AC	630	5100	2.04	6	N	N	965000000068029	Y-RL10-0045	2010	2010
18-Aug-10		U	U	11.0	28	AC	-	-	-	-	N	Y	965000000009764	Y-RL10-0824	2010	2010
18-Aug-10		L	U	11.0	28	AC	631	5300	2.11	5	N	N	965000000065578	Y-RL10-0044	2010	2010
18-Aug-10		L	U	11.0	29	AC	693	6500	1.95	7	N	N	965000000069054	Y-RL10-0043	2010	2010
18-Aug-10		L	U	11.0	30	AC	583	3900	1.97	8	N	N	965000000065218	Y-RL10-0042	2010	2010
18-Aug-10		L	U	11.0	31	AC	498	2700	2.19	4	N	N	965000000070707	Y-RL10-0041	2010	2010
18-Aug-10		L	U	11.0	32	AC	749	8500	2.02	10	N	N	965000000064611	Y-RL10-0040	2010	2010
18-Aug-10		U	U	11.0	33	AC	-	-	-	-	N	Y	965000000071034	Y-RL10-0202	2010	2010
18-Aug-10		L	U	11.0	33	AC	732	7300	1.86	12	N	Y	985120031569430		2007	
18-Aug-10		L	U	11.0	34	AC	604	4500	2.04	4	N	Y	985120031632838		2007	
18-Aug-10		L	U	11.0	35	AC	668	5700	1.91	5	N	N	965000000071060	Y-RL10-0039	2010	2010
18-Aug-10		L	U	11.0	36	AC	610	-	-	10	N	N	965000000070342	Y-RL10-0038	2010	2010

Species Code: AC = Arctic char, LT = lake trout, LW = lake whitefish, RW = round whitefish, CISC = least cisco, SC = saffron cod

Box Location: L = Lower, U = Upper

Fish Direction: D = Downstream, U = Upstream

Y = yes, N = no

Dashes indicate not applicable

Appendix 7. Biological and Tagging Data from Fish Fences in Roberts Outflow, Doris North Project, 2012

Date (dd/mm/yy)	Time (24 hr clock)	Box Location (U/L)	Fish Direction (U/D)	Water Temp (˚C)	Unique Sample No.	Species Code	Fork Length (mm)	Weight (g)	Condition (K)	Age (years)	Mortality (Y/N)	Recap (Y/N)	PIT Tag No.	Floy Tag No.	PIT Tag Year	Floy Tag Year
18-Aug-10		U	U	11.0	37	LT	431	1200	1.50	4	N	N	965000000069906	Y-RL10-0222	2010	2010
18-Aug-10		U	U	11.0	38	LT	422	800	1.06	1	N	N	965000000077102	Y-RL10-0228	2010	2010
18-Aug-10		U	U	11.0	39	LT	569	2500	1.36	11	N	Y	985153000021453		2007	
18-Aug-10		U	U	11.0	40	AC	-	-	-	-	N	Y	965000000009936	Y-RL10-0209	2010	2010
18-Aug-10		U	U	11.0	40	AC	-	1600	-	10	N	N	965000000070031	Y-RL10-0234	2010	2010
18-Aug-10		U	U	11.0	41	AC	-	-	-	-	N	Y	9.65E+14	Y-RL10-0214	2010	2010
18-Aug-10		U	U	11.0	42	AC	447	1500	1.68	4	N	N	965000000071760	Y-RL10-0225	2010	2010
19-Aug-10		U	U	10.0	1	AC	-	-	-	-	N	Y	965000000072602	Y-RL10-0822	2010	2010
19-Aug-10		U	U	10.0	2	AC	-	-	-	-	N	Y	965000000065214	Y-RL10-0212	2010	2010
19-Aug-10		U	U	10.0	3	AC	-	-	-	-	N	Y	965000000071060	Y-RL10-0039	2010	2010
19-Aug-10		U	U	10.0	4	AC	-	-	-	-	N	Y	965000000068029	Y-RL10-0045	2010	2010
19-Aug-10		U	U	10.0	5	AC	-	-	-	-	N	Y	965000000069777	Y-RL10-0046	2010	2010
19-Aug-10		U	U	10.0	6	AC	-	-	-	-	N	Y	965000000072779	Y-RL10-0803	2010	2010
19-Aug-10		U	U	10.0	7	AC	-	-	-	-	N	Y	965000000065218	Y-RL10-0042	2010	2010
19-Aug-10		U	U	10.0	8	AC	-	-	-	-	N	Y	985120031632838		2007	
19-Aug-10		U	U	10.0	9	AC	784	2500	0.52	12	N	N	965000000065452	Y-RL10-0037	2010	2010
19-Aug-10		U	U	10.0	10	AC	440	1400	1.64	5	N	N	965000000069187	Y-RL10-0036	2010	2010
19-Aug-10		U	U	10.0	11	AC	475	1900	1.77	-	N	N	965000000070470	Y-RL10-0035	2010	2010
19-Aug-10		U	U	10.0	12	AC	470	1800	1.73	5	N	N	965000000068241	Y-RL10-0034	2010	2010
19-Aug-10		U	U	10.0	13	AC	423	1500	1.98	5	N	N	965000000071347	Y-RL10-0033	2010	2010
19-Aug-10		U	U	10.0	14	AC	439	1700	2.01	11	N	N	965000000065569	Y-RL10-0031	2010	2010
19-Aug-10		U	U	10.0	15	AC	369	1000	1.99	9	N	N	965000000069712	Y-RL10-0030	2010	2010
19-Aug-10		U	U	10.0	16	AC	503	2000	1.57	3	N	N	965000000072675	Y-RL10-0029	2010	2010
19-Aug-10		U	U	10.0	17	AC	409	1500	2.19	4	N	N	965000000069694	Y-RL10-0028	2010	2010
19-Aug-10		U	U	10.0	18	AC	744	6400	1.55	11	N	N	965000000089891	Y-RL10-0027	2010	2010
19-Aug-10		U	U	10.0	19	AC	370	600	1.18	3	N	N	965000000072966	Y-RL10-0026	2010	2010
19-Aug-10		U	U	10.0	20	AC	-	-	-	-	N	Y	985120031569430		2007	
19-Aug-10		U	U	10.0	21	AC	460	1700	1.75	4	N	N	965000000086240	Y-RL10-0577	2010	2010
19-Aug-10		U	U	10.0	22	AC	426	1600	2.07	4	N	N	965000000080752	Y-RL10-0579	2010	2010
19-Aug-10		U	U	10.0	23	AC	660	5400	1.88	-	N	N	965000000066657	Y-RL10-0580	2010	2010
19-Aug-10		U	U	10.0	24	AC	396	1300	2.09	-	N	N	965000000070564	Y-RL10-0581	2010	2010
19-Aug-10		U	U	10.0	25	AC	584	3600	1.81	5	N	N	965000000080275	Y-RL10-0582	2010	2010
19-Aug-10		U	U	10.0	26	AC	709	6000	1.68	6	N	N	965000000070445	Y-RL10-0583	2010	2010
19-Aug-10		U	U	10.0	27	AC	820	7800	1.41	10	N	N	965000000069740	Y-RL10-0584	2010	2010
19-Aug-10		U	U	10.0	28	AC	509	2300	1.74	8	N	N	965000000083819	Y-RL10-0585	2010	2010
19-Aug-10		U	U	10.0	29	AC	373	-	-	4	N	N	965000000066515	Y-RL10-0586	2010	2010
19-Aug-10		L	U	10.0	33	AC	-	-	-	-	N	Y	985120031625937		2007	
19-Aug-10		L	U	10.0	34	AC	366	-	-	4	N	N	965000000070453	Y-RL10-0587	2010	2010
19-Aug-10		L	U	10.0	35	AC	372	-	-	3	N	N	965000000072268	Y-RL10-0588	2010	2010
19-Aug-10		L	U	10.0	36	AC	554	3300	1.94	5	N	N	965000000068126	Y-RL10-0589	2010	2010
19-Aug-10		L	U	10.0	37	AC	655	5300	1.89	5	N	N	965000000072808	Y-RL10-0590	2010	2010
19-Aug-10		L	U	10.0	38	AC	220	-	-	3	N	N	965000000068875		2010	
19-Aug-10		L	U	10.0	39	AC	637	5000	1.93	8	N	N	965000000110746	Y-RL10-0591	2010	2010
19-Aug-10		L	U	10.0	40	AC	576	3400	1.78	5	N	N	965000000083526	Y-RL10-0592	2010	2010
19-Aug-10		U	U	10.0	41	LT	431	1300	1.62	-	N	N	965000000069491	Y-RL10-0032	2010	2010
19-Aug-10		U	U	10.0	42	LT	456	1900	2.00	-	N	Y	985120031587303		2007	
19-Aug-10		U	U	10.0	43	LT	496	1700	1.39	6	N	N	965000000071659	Y-RL10-0576	2010	2010
22-Aug-10		U	U	10.0	1	AC	-	-	-	-	N	Y	965000000076832	Y-RL10-0217	2010	2010
22-Aug-10		U	U	10.0	2	AC	-	-	-	-	N	Y	965000000069867	Y-RL10-0210	2010	2010
22-Aug-10		U	U	10.0	3	AC	-	-	-	-	N	Y	965000000084108	Y-RL10-0003	2010	2010
22-Aug-10		U	U	10.0	4	AC	-	-	-	-	N	Y	965000000010012	Y-RL10-0203	2010	2010
22-Aug-10		U	U	10.0	5	AC	-	-	-	-	N	Y	965000000083526	Y-RL10-0592	2010	2010
22-Aug-10		U	U	10.0	6	AC	-	-	-	-	N	Y	965000000110746	Y-RL10-0591	2010	2010
22-Aug-10		U	U	10.0	7	AC	459	1600	1.65	-	N	N	965000000069958	Y-RL10-0593	2010	2010
22-Aug-10		U	U	10.0	8	AC	529	2000	1.35	5	N	N	965000000001436	Y-RL10-0596	2010	2010
22-Aug-10		U	U	10.0	9	AC	812	8500	1.59	15	N	N	965000000068407	Y-RL10-0597	2010	2010
22-Aug-10		U	U	10.0	10	AC	375	-	-	5	N	N	965000000072816	Y-RL10-0598	2010	2010
22-Aug-10		U	U	10.0	11	AC	484	2400	2.12	11	N	N	965000000068334	Y-RL10-0599	2010	2010
22-Aug-10		U	U	10.0	12	AC	388	1000	1.71	3	N	N	965000000066116	Y-RL10-0600	2010	2010
22-Aug-10		U	U	10.0	13	AC	478	2000	1.83	4	N	N	965000000067636	Y-RL10-0551	2010	2010
22-Aug-10		U	U	10.0	15	AC	304	500	1.78	6	N	N	965000000070484	Y-RL10-0554	2010	2010
22-Aug-10		U	U	10.0	16	AC	429	1500	1.90	5	N	N	965000000092510	Y-RL10-0555	2010	2010
22-Aug-10		U	U	10.0	17	AC	429	1600	2.03	3	N	N	965000000003255	Y-RL10-0556	2010	2010
22-Aug-10		U	U	10.0	18	AC	600	4300	1.99	4	N	N	965000000071225	Y-RL10-0557	2010	2010
22-Aug-10		U	U	10.0	19	AC	509	1400	1.06	4	N	N	965000000078465	Y-RL10-0558	2010	2010
22-Aug-10		U	U	10.0	19	AC	611	4500	1.97	5	N	Y	985120031620807		2007	
22-Aug-10		U	U	10.0	20	AC	475	1600	1.49	5	N	N	965000000002505	Y-RL10-0559	2010	2010
22-Aug-10		U	U	10.0	21	AC	439	1500	1.77	5	N	N	965000000072988	Y-RL10-0560	2010	2010
22-Aug-10		U	U	10.0	22	AC	525	2700	1.87	4	N	N	965000000070584	Y-RL10-0561	2010	2010
22-Aug-10		U	U	10.0	23	AC	453	2100	2.26	4	N	N	965000000072086	Y-RL10-0562	2010	2010
22-Aug-10		U	U	10.0	24	AC	425	1400	1.82	6	N	N	965000000079724	Y-RL10-0563	2010	2010
22-Aug-10		U	U	10.0	25	AC	500	2500	2.00	4	N	N	965000000091810	Y-RL10-0564	2010	2010
22-Aug-10		U	U	10.0	26	AC	370	800	1.58	3	N	N	965000000090959	Y-RL10-0565	2010	2010
22-Aug-10		U	U	10.0	27	AC	412	1600	2.29	6	N	N	965000000071542	Y-RL10-0566	2010	2010
22-Aug-10		U	U	10.0	28	AC	780	6600	1.39	5	N	Y	-	G-4643		2006
22-Aug-10		U	U	10.0	29	AC	360	1000	2.14	4	N	N	965000000002387	Y-RL10-0568	2010	2010
22-Aug-10		U	U	10.0	30	AC	820	8600	1.56	13	N	N	965000000086233	Y-RL10-0569	2010	2010
22-Aug-10		U	U	10.0	31	AC	-	-	-	-	N	Y	965000000080663	Y-RL10-0144	2010	2010
22-Aug-10		U	U	10.0	32	AC	420	1500	2.02	4	N	N	965000000070361	Y-RL10-0570	2010	2010
22-Aug-10		U	U	10.0	33	AC	416	1600	2.22	10	N	N	965000000072900	Y-RL10-0571	2010	2010
22-Aug-10		U	U	10.0	34	AC	863	10500	1.63	13	N	N	965000000067635	Y-RL10-0572	2010	2010
22-Aug-10		U	U	10.0	35	LT	-	-	-	-	N	Y	965000000069582	Y-RL10-0550	2010	2010
22-Aug-10		U	U	10.0	36	LT	463	1600	1.61	3	N	N	965000000091341	Y-RL10-0594	2010	2010
22-Aug-10		U	U	10.0	37	LT	500	2500	2.00	10	N	N	965000000069736	Y-RL10-0567	2010	2010
4-Aug-05	0.73611111	L	U		41	LT	789	4710	0.96		N	N		G-4263		2005
4-Aug-05	0.73611111	L	U		42	LT	519	1780	1.27		N	Y	985153000021467	B-045	2007	2000
4-Aug-05	0.73611111	L	U		43	AC	845	-	-		N	Y		G-3261		2003
4-Aug-05	0.73611111	L	U		44	LT	507	1500	1.15		N	Y		W-2149		2002
4-Aug-05	0.73611111	L	U		45	LT	470	1200	1.16		N	Y		G-3063		2003
4-Aug-05	0.73611111	L	U		46	AC	782	4980	1.04		N	N		G-4264		2005
4-Aug-05	0.73611111	L	U		47	LT	484	1340	1.18		N	N		G-4265		2005
4-Aug-05	0.73611111	L	U		48	LT	555	2045	1.20		N	Y		G-4062		2004
4-Aug-05	0.73611111	L	U		49	LT	496	1305	1.07		N	Y		G-3337		2003
4-Aug-05	0.73611111	L	U		50	LT	412	730	1.04		N	Y		G-3308		2003
4-Aug-05	0.73611111	L	U		51	LT	547	1935	1.18		N	N	985153000021438	G-4266	2007	2005
5-Aug-05	0.60416667	L	U		52	AC	693	2560	0.77		N	Y		G-3199		2003
5-Aug-05	0.60416667	L	U		53	AC	603	2000	0.91		N	Y		G-3226		2003
5-Aug-05	0.60416667	L	U		54	LT	582	2190	1.11		N	N		G-4267		2005
5-Aug-05	0.60416667	L	U		55	LT	414	925	1.30		N	Y		G-4036		2004

Species Code: AC = Arctic char, LT = lake trout, LW = lake whitefish, RW = round whitefish, CISC = least cisco, SC = saffron cod

Box Location: L = Lower, U = Upper

Fish Direction: D = Downstream, U = Upstream

Y = yes, N = no

Dashes indicate not applicable

Appendix 7. Biological and Tagging Data from Fish Fences in Roberts Outflow, Doris North Project, 2012

Date (dd/mm/yy)	Time (24 hr clock)	Box Location (U/L)	Fish Direction (U/D)	Water Temp (˚C)	Unique Sample No.	Species Code	Fork Length (mm)	Weight (g)	Condition (K)	Age (years)	Mortality (Y/N)	Recap (Y/N)	PIT Tag No.	Floy Tag No.	PIT Tag Year	Floy Tag Year
5-Aug-05	0.60416667	L	U		56	LT	434	920	1.13		N	N		G-4268		2005
5-Aug-05	0.625	U	U		57	LT	555	2045	1.20		N	Y		G-4062		2004
5-Aug-05	0.625	U	U		58	LT	412	730	1.04		N	Y		G-3308		2003
5-Aug-05	0.625	U	U		59	LT	537	1955	1.26		N	N	985153000021044	G-4269	2007	2005
6-Aug-05	0.375	L	U		60	AC	782	5510	1.15		N	Y		G-4270		2005
6-Aug-05	0.375	L	U		61	LT	686	2275	0.70		N	Y		G-4271		2005
6-Aug-05	0.40625	U	U		62	AC	603	2000	0.91		N	Y		G-3226		2003
7-Aug-05	0.64583333	L	U		63	LT	397	750	1.20		N	Y		G-4272		2005
7-Aug-05	0.64583333	L	U		64	AC	804	-	-		N	Y		G-4273		2005
7-Aug-05	0.64583333	L	U		65	LT	466	1110	1.10		N	Y	985120031620239	G-4274	2007	2005
7-Aug-05	0.64583333	L	U		66	LT	446	985	1.11		N	Y		G-4275		2005
7-Aug-05	0.64583333	L	U		67	LT	553	2670	1.58		N	Y		G-4276		2005
7-Aug-05	0.64583333	L	U		68	LT	511	1905	1.43		N	Y		G-4277		2005
7-Aug-05	0.64583333	L	U		69	LT	574	1870	0.99		N	Y		G-4278		2005
7-Aug-05	0.64583333	L	U		70	AC	463	1090	1.10		N	Y		G-4101		2004
7-Aug-05	0.64583333	L	U		71	LT	424	850	1.12		N	Y		G-4279		2005
7-Aug-05	0.64583333	L	U		72	LT	609	2460	1.09		N	Y		G-4280		2005
7-Aug-05	0.64583333	L	U		73	LT	421	910	1.22		N	Y		G-4067		2004
7-Aug-05	0.64583333	L	U		74	AC	616	2285	0.98		N	Y		G-4218		2004
7-Aug-05	0.64583333	L	U		75	AC	787	4845	0.99		N	Y		G-4282		2005
7-Aug-05	0.64583333	L	U		76	LT	434	915	1.12		N	Y		G-4035		2004
7-Aug-05	0.64583333	L	U		77	LT	508	1735	1.32		N	Y		G-4283		2005
7-Aug-05	0.64583333	L	U		78	LT	507	1620	1.24		N	Y		G-4053		2004
7-Aug-05	0.64583333	L	U		79	LT	436	935	1.13		N	Y		G-4054		2004
7-Aug-05	0.64583333	L	U		80	LT	468	985	0.96		N	Y		G-4052		2004
7-Aug-05	0.6875	U	U		81	LT	434	920	1.13		N	Y		G-4268		2005
7-Aug-05	0.6875	U	U		82	AC	693	2560	0.77		N	Y		G-3199		2003
8-Aug-05	0.38541667	L	U		83	LT	448	1095	1.22		N	Y		B-023		2000
8-Aug-05	0.38541667	L	U		84	LT	474	1245	1.17		N	Y		G-4098		2004
8-Aug-05	0.38541667	L	U		85	LT	425	885	1.15		N	Y		W-2232		2002
8-Aug-05	0.38541667	U	U		86	LT	547	1935	1.18		N	Y	985153000021438	G-4266	2007	2005
8-Aug-05	0.38541667	U	U		87	LT	507	1500	1.15		N	Y		W-2149		2002
8-Aug-05	0.38541667	U	U		88	LT	424	850	1.12		N	Y		G-4279		2005
9-Aug-05	0.54166667	L	U		723	AC	781	4250	0.89		N	N		G-4284		2005
9-Aug-05	0.54166667	L	U		724	LT	463	885	0.89		N	Y		G-4000		2004
9-Aug-05	0.54166667	L	U		725	LT	465	1200	1.19		N	Y		G-3917		2003
9-Aug-05	0.54166667	L	U		726	LT	476	1300	1.21		N	Y	985153000021444	B-016	2007	2000
9-Aug-05	0.54166667	L	U		727	LT	471	1070	1.02		N	Y		G-4015		2004
9-Aug-05	0.54166667	L	U		728	LT	467	1120	1.10		N	Y		G-4056		2004
9-Aug-05	0.54166667	L	U		729	LT	453	1000	1.08		N	Y		B-036		2000
9-Aug-05	0.54166667	L	U		730	LT	550	1870	1.12		Y	Y				
9-Aug-05	0.54166667	U	U		731	LT	474	1245	1.17		N	Y		G-4098		2004
9-Aug-05	0.54166667	U	U		732	AC	782	5510	1.15		N	Y		G-4270		2005
9-Aug-05	0.54166667	U	U		733	LT	448	1095	1.22		N	Y		B-023		2000
10-Aug-05	0.375	L	U		734	AC	724	3645	0.96		N	N		G-4285		2005
10-Aug-05	0.375	L	U		735	AC	822	5970	1.07		N	N	985120031583443	G-4286	2007	2005
10-Aug-05	0.375	L	U		736	AC	648	3000	1.10		N	N		G-4287		2005
10-Aug-05	0.375	L	U		737	AC	738	3805	0.95		N	N		G-4288		2005
10-Aug-05	0.375	L	U		738	LT	446	1080	1.22		N	N		G-4289		2005
10-Aug-05	0.375	L	U		739	LT	448	910	1.01		N	Y	985153000021493	G-4016	2007	2004
10-Aug-05	0.375	L	U		740	LT	436	785	0.95		N	Y		G-4102		2004
10-Aug-05	0.375	L	U		741	LT	454	980	1.05		N	Y		G-3169		2003
10-Aug-05	0.375	L	U		742	LT	423	905	1.20		N	N		G-4290		2005
10-Aug-05	0.41666667	U	U		743	LT	463	885	0.89		N	Y		G-4000		2004
10-Aug-05	0.41666667	U	U		744	LT	519	1780	1.27		N	Y	985153000021467	B-045	2007	2000
10-Aug-05	0.41666667	U	U		745	LT	453	1000	1.08		N	Y		B-036		2000
10-Aug-05	0.41666667	U	U		746	LT	470	1200	1.16		N	Y		G-3063		2003
11-Aug-05	0.39583333	L	U		825	LT	747	3860	0.93		N	N		G-4291		2005
11-Aug-05	0.39583333	L	U		826	AC	668	2340	0.79		N	N		G-4292		2005
11-Aug-05	0.39583333	L	U		827	LT	525	1710	1.18		N	Y		B-038		2000
11-Aug-05	0.39583333	L	U		828	LT	516	1700	1.24		N	N	985153000021410	G-4293	2007	2005
11-Aug-05	0.39583333	L	U		829	LT	479	1120	1.02		N	Y		G-4083		2004
11-Aug-05	0.42361111	U	U		830	LT	872	7210	1.09		N	Y		G-4258		2005
11-Aug-05	0.42361111	U	U		831	LT	784	5325	1.11		N	Y		G-4259		2005
11-Aug-05	0.42361111	U	U		832	AC	724	3645	0.96		N	Y		G-4285		2005
11-Aug-05	0.42361111	U	U		833	LT	574	1870	0.99		N	Y		G-4278		2005
11-Aug-05	0.42361111	U	U		834	LT	582	2190	1.11		N	Y		G-4267		2005
11-Aug-05	0.42361111	U	U		835	LT	467	1120	1.10		N	Y		G-4056		2004
11-Aug-05	0.42361111	U	U		836	AC	738	3805	0.95		N	Y		G-4288		2005
12-Aug-05	0.38541667	L	U		864	AC	673	3275	1.07		N	N		G-4297		2005
12-Aug-05	0.38541667	L	U		865	LT	514	1595	1.17		N	N	985153000021403	G-4298	2007	2005
12-Aug-05	0.38541667	L	U		866	AC	741	4625	1.14		N	N		G-4299		2005
12-Aug-05	0.38541667	L	U		867	LT	522	1605	1.13		N	Y		G-3055		2003
12-Aug-05	0.38541667	L	U		868	AC	719	3760	1.01		N	N		G-4300		2005
12-Aug-05	0.38541667	L	U		869	AC	733	4035	1.02		N	N		G-4301		2005
12-Aug-05	0.38541667	L	U		870	LT	555	2375	1.39		N	Y		G-4059		2004
12-Aug-05	0.38541667	L	U		871	AC	435	775	0.94		N	Y		G-4135		2004
12-Aug-05	0.38541667	L	U		872	AC	648	2525	0.93		N	Y		G-3167		2003
12-Aug-05	0.38541667	L	U		873	AC	743	3645	0.89		N	N		G-4302		2005
12-Aug-05	0.38541667	L	U		874	LT	413	815	1.16		N	Y		G-4057		2004
12-Aug-05	0.38541667	U	U		875	LT	451	940	1.02		N	Y		G-3169		2003
13-Aug-05	0.54861111	L	U		905	AC	760	4120	0.94		N	N		G-4306		2005
13-Aug-05	0.54861111	L	U		906	LT	553	2095	1.24		N	N		G-4296		2005
13-Aug-05	0.54861111	L	U		907	AC	600	2245	1.04		N	Y		W-2325		2002
13-Aug-05	0.54861111	L	U		908	AC	720	5360	1.44		N	N		G-4307		2005
13-Aug-05	0.54861111	L	U		909	AC	670	2795	0.93		N	Y		G-3284		2003
13-Aug-05	0.54861111	L	U		910	AC	758	4840	1.11		N	N		G-4308		2005
13-Aug-05	0.54861111	L	U		911	AC	781	3960	0.83		N	N		G-4309		2005
13-Aug-05	0.54861111	L	U		912	AC	682	2825	0.89		N	Y		G-3200		2003
13-Aug-05	0.54861111	L	U		913	LT	459	1115	1.15		N	N		G-4310		2005
13-Aug-05	0.54861111	L	U		914	AC	620	2205	0.93		N	N		G-4311		2005
13-Aug-05	0.54861111	L	U		915	LT	427	840	1.08		N	N	985153000021446	G-4312	2007	2005
13-Aug-05	0.54861111	L	U		916	AC	628	2645	1.07		N	N		G-4313		2005
13-Aug-05	0.54861111	L	U		917	LT	428	965	1.23		N	Y		G-3206		2003
13-Aug-05	0.59027778	U	U		918	AC	822	5970	1.07		N	Y	985120031583443	G-4286	2007	2005
13-Aug-05	0.59027778	U	U		919	AC	743	3645	0.89		N	Y		G-4302		2005
13-Aug-05	0.59027778	U	U		920	AC	719	3760	1.01		N	Y		G-4300		2005
13-Aug-05	0.59027778	U	U		921	AC	668	2340	0.79		N	Y		G-4292		2005
13-Aug-05	0.59027778	U	U		922	AC	648	3000	1.10		N	Y		G-4287		2005

Species Code: AC = Arctic char, LT = lake trout, LW = lake whitefish, RW = round whitefish, CISC = least cisco, SC = saffron cod

Box Location: L = Lower, U = Upper

Fish Direction: D = Downstream, U = Upstream

Y = yes, N = no

Dashes indicate not applicable

Appendix 7. Biological and Tagging Data from Fish Fences in Roberts Outflow, Doris North Project, 2012

Date (dd/mm/yy)	Time (24 hr clock)	Box Location (U/L)	Fish Direction (U/D)	Water Temp (˚C)	Unique Sample No.	Species Code	Fork Length (mm)	Weight (g)	Condition (K)	Age (years)	Mortality (Y/N)	Recap (Y/N)	PIT Tag No.	Floy Tag No.	PIT Tag Year	Floy Tag Year
13-Aug-05	0.59027778	U	U		923	AC	804	6450	1.24		N	Y		G-4273		2005
13-Aug-05	0.59027778	U	U		924	AC	648	2525	0.93		N	Y		G-3167		2003
13-Aug-05	0.59027778	U	U		925	LT	476	1300	1.21		N	Y	985153000021444	B-016	2007	2000
13-Aug-05	0.59027778	U	U		926	LT	522	1605	1.13		N	Y		G-3055		2003
13-Aug-05	0.59027778	U	U		927	LT	516	1700	1.24		N	Y	985153000021410	G-4293	2007	2005
14-Aug-05	0.40625	U	U		928	LT	553	2095	1.24		N	Y		G-4296		2005
14-Aug-05	0.40625	U	U		929	AC	760	4120	0.94		N	Y		G-4306		2005
14-Aug-05	0.40625	U	U		930	LT	460	1140	1.17		N	Y		G-3197		2003
15-Aug-05	0.38194444	L	U		931	AC	717	3085	0.84		N	Y		G-3160		2003
15-Aug-05	0.38194444	L	U		932	AC	744	4980	1.21		N	N		G-4295		2005
15-Aug-05	0.38194444	L	U		933	AC	699	3650	1.07		N	N		G-4314		2005
15-Aug-05	0.38194444	L	U		934	AC	715	3095	0.85		N	Y		G-3070		2003
15-Aug-05	0.38194444	L	U		935	AC	700	2915	0.85		N	N		G-4315		2005
15-Aug-05	0.38194444	L	U		936	AC	707	4110	1.16		N	N		G-4316		2005
15-Aug-05	0.38194444	L	U		937	AC	390	585	0.99		N	N		G-4317		2005
15-Aug-05	0.38194444	L	U		938	AC	663	2765	0.95		N	N		G-4318		2005
15-Aug-05	0.38194444	L	U		939	AC	695	3070	0.91		N	Y		G-3203		2003
15-Aug-05	0.50347222	U	U		958	AC	700	2915	0.85		N	Y		G-4315		2005
15-Aug-05	0.50347222	U	U		959	AC	715	3095	0.85		N	Y		G-3070		2003
15-Aug-05	0.50347222	U	U		960	AC	390	585	0.99		N	Y		G-4317		2005
15-Aug-05	0.50347222	U	U		961	AC	717	3085	0.84		N	Y		G-3160		2003
15-Aug-05	0.54166667	U	U		962	AC	744	4980	1.21		N	Y		G-4295		2005
16-Aug-05	0.64583333	L	U		1021	AC	741	3935	0.97		N	N		G-4324		2005
16-Aug-05	0.64583333	L	U		1022	AC	771	3905	0.85		N	Y		G-3093		2003
16-Aug-05	0.64583333	L	U		1023	AC	334	420	1.13		N	Y		G-4325		2005
16-Aug-05	0.64583333	L	U		1024	LT	447	745	0.83		N	N		G-4326		2005
16-Aug-05	0.71527778	U	U		1025	LT	514	1595	1.17		N	Y	985153000021403	G-4298	2007	2005
16-Aug-05	0.71527778	U	U		1026	AC	695	3070	0.91		N	Y		G-3203		2003
16-Aug-05	0.71527778	U	U		1027	LT	466	1010	1.00		N	Y		G-4015		2004
17-Aug-05	0.4375	L	U		1028	AC	799	4715	0.92		N	Y		W-2511		2002
17-Aug-05	0.4375	L	U		1029	AC	611	2295	1.01		N	N		G-4327		2005
17-Aug-05	0.4375	L	U		1030	AC	591	2355	1.14		N	N		G-4328		2005
17-Aug-05	0.45833333	U	U		1031	AC	741	3935	0.97		N	Y		G-4324		2005
17-Aug-05	0.625	L	U		1095	AC	799	4715	0.92		N	Y		W-2511		2002
17-Aug-05	0.625	L	U		1096	AC	591	2355	1.14		Y	Y		G-4328		2005
17-Aug-05	0.69791667	L	U		1097	AC	514	1405	1.03		N	Y		B-027		2000
17-Aug-05	0.69791667	L	U		1098	AC	674	3100	1.01		N	N		G-4338		2005
17-Aug-05	0.69791667	L	U		1099	AC	651	2130	0.77		N	N		G-4339		2005
17-Aug-05	0.69791667	L	U		1100	LT	417	740	1.02		N	N		G-4340		2005
17-Aug-05	0.69791667	L	U		1101	AC	745	3295	0.80		N	Y		G-3305		2003
17-Aug-05	0.69791667	L	U		1102	AC	438	790	0.94		N	Y		G-4116		2004
17-Aug-05	0.69791667	L	U		1103	AC	402	690	1.06		N	Y		G-4131		2004
17-Aug-05	0.69791667	L	U		1104	AC	421	755	1.01		N	N		G-4341		2005
17-Aug-05	0.69791667	L	U		1105	LT	480	1285	1.16		N	Y		G-3460		2003
17-Aug-05	0.69791667	L	U		1106	LT	410	805	1.17		N	Y		G-3168		2003
17-Aug-05	0.69791667	L	U		1107	LT	458	1015	1.06		N	Y		G-3306		2003
17-Aug-05	0.69791667	L	U		1108	LT	378	540	1.00		N	N	900026000149779	G-4342	2012	2005
18-Aug-05	0.39583333	L	U		1109	LT	878	7805	1.15		N	N	985120031573882	G-4343	2007	2005
18-Aug-05	0.39583333	L	U		1110	AC	691	3345	1.01		N	Y		W-2322		2002
18-Aug-05	0.39583333	L	U		1111	LT	495	1300	1.07		N	Y		G-3382		2003
18-Aug-05	0.39583333	L	U		1112	AC	750	3165	0.75		N	Y		G-3194		2003
18-Aug-05	0.42708333	U	U		1113	AC	758	4840	1.11		N	Y		G-4308		2005
18-Aug-05	0.42708333	U	U		1114	AC	670	2795	0.93		N	Y		G-3284		2003
18-Aug-05	0.42708333	U	U		1115	AC	514	1405	1.03		N	Y		B-027		2000
18-Aug-05	0.42708333	U	U		1116	LT	468	985	0.96		N	Y		G-4052		2004
19-Aug-05	0.4375	U	U		1117	AC	750	3165	0.75		N	Y		G-3194		2003
19-Aug-05	0.4375	U	U		1118	LT	496	1305	1.07		N	Y		G-3337		2003
19-Aug-05	0.4375	U	U		1119	AC	458	1015	1.06		N	Y		G-3306		2003
19-Aug-05	0.4375	U	U		1120	AC	421	755	1.01		N	Y		G-4341		2005
19-Aug-05	0.4375	U	U		1121	LT	446	985	1.11		N	Y		G-4275		2005
19-Aug-05	0.4375	U	U		1122	LT	525	1710	1.18		N	Y		B-038		2000
20-Aug-05	0.39583333	L	U		1148	AC	753	3210	0.75		N	N		G-4352		2005
20-Aug-05	0.39583333	L	U		1149	AC	749	3785	0.90		N	N		G-4353		2005
20-Aug-05	0.39583333	L	U		1150	AC	727	3440	0.90		N	Y		G-3268		2003
20-Aug-05	0.39583333	L	U		1151	AC	777	4730	1.01		N	N		G-4354		2005
20-Aug-05	0.39583333	L	U		1152	AC	543	1855	1.16		N	N	985120031573231	G-4355	2007	2005
20-Aug-05	0.39583333	L	U		1153	AC	725	2940	0.77		N	N		G-4356		2005
20-Aug-05	0.39583333	L	U		1154	AC	726	3690	0.96		N	N		G-4357		2005
20-Aug-05	0.39583333	L	U		1155	AC	564	1905	1.06		N	Y		G-3411		2003
20-Aug-05	0.39583333	L	U		1156	AC	512	1285	0.96		N	Y		W-2220		2002
20-Aug-05	0.39583333	L	U		1157	AC	449	975	1.08		N	Y		G-3387		2003
20-Aug-05	0.39583333	L	U		1158	AC	428	810	1.03		N	Y		G-4051		2004
20-Aug-05	0.39583333	L	U		1159	AC	325	330	0.96		N	N		G-4358		2005
20-Aug-05	0.45138889	U	U		1160	LT	878	7805	1.15		N	Y	985120031573882	G-4343	2007	2005
20-Aug-05	0.45138889	U	U		1161	AC	707	4110	1.16		N	Y		G-4316		2005
21-Aug-05	0.39583333	L	U		1198	LT	705	3070	0.88		N	N		G-4362		2005
21-Aug-05	0.39583333	L	U		1199	AC	478	1170	1.07		N	N		G-4331		2005
21-Aug-05	0.39583333	L	U		1200	AC	352	475	1.09		N	Y		G-4204		2004
21-Aug-05	0.39583333	L	U		1201	AC	336	415	1.09		N	N		G-4359		2005
21-Aug-05	0.39583333	L	U		1202	LT	386	635	1.10		N	N		G-4400		2005
21-Aug-05	0.41666667	U	U		1203	AC	749	3785	0.90		N	Y		G-4353		2005
21-Aug-05	0.41666667	U	U		1204	AC	777	4730	1.01		N	Y		G-4354		2005
21-Aug-05	0.41666667	U	U		1205	AC	727	3440	0.90		N	Y		G-3268		2003
21-Aug-05	0.41666667	U	U		1206	LT	648	3240	1.19		N	Y		G-4261		2005
22-Aug-05	0.41666667	L	U		1207	AC	780	4755	1.00		N	N		G-4363		2005
22-Aug-05	0.41666667	L	U		1208	AC	401	770	1.19		N	Y		G-4241		2004
22-Aug-05	0.41666667	L	U		1209	LW	453	1750	1.88		N	N		G-4364		2005
22-Aug-05	0.41666667	L	U		1210	LT	409	710	1.04		N	N		G-4365		2005
22-Aug-05	0.41666667	L	U		1211	AC	375	575	1.09		N	N		G-4366		2005
22-Aug-05	0.41666667	L	U		1212	AC	351	510	1.18		N	N		G-4367		2005
22-Aug-05	0.68055556	L	U		1248	AC	823	5885	1.06		N	Y		W-2516		2002
22-Aug-05	0.68055556	L	U		1249	AC	460	990	1.02		N	Y		G-3362		2003
22-Aug-05	0.68055556	L	U		1250	LT	318	330	1.03		N	N		G-4372		2005
22-Aug-05	0.69444444	U	U		1251	AC	780	4755	1.00		N	Y		G-4363		2005
22-Aug-05	0.69444444	U	U		1252	AC	663	2765	0.95		N	Y		G-4318		2005
22-Aug-05	0.69444444	U	U		1253	AC	651	2130	0.77		N	Y		G-4339		2005
22-Aug-05	0.69444444	U	U		1254	AC	512	1285	0.96		N	Y		W-2220		2002
24-Aug-05	0.4375	L	U		1255	AC	665	3390	1.15		N	N		G-4373		2005
24-Aug-05	0.4375	L	U		1256	AC	703	3320	0.96		N	N		G-4374		2005

Species Code: AC = Arctic char, LT = lake trout, LW = lake whitefish, RW = round whitefish, CISC = least cisco, SC = saffron cod

Box Location: L = Lower, U = Upper

Fish Direction: D = Downstream, U = Upstream

Y = yes, N = no

Dashes indicate not applicable

Appendix 7. Biological and Tagging Data from Fish Fences in Roberts Outflow, Doris North Project, 2012

Date (dd/mm/yy)	Time (24 hr clock)	Box Location (U/L)	Fish Direction (U/D)	Water Temp (˚C)	Unique Sample No.	Species Code	Fork Length (mm)	Weight (g)	Condition (K)	Age (years)	Mortality (Y/N)	Recap (Y/N)	PIT Tag No.	Floy Tag No.	PIT Tag Year	Floy Tag Year
24-Aug-05	0.4375	L	U		1257	AC	653	3000	1.08		N	N		G-4375		2005
24-Aug-05	0.4375	L	U		1258	AC	647	-	-		N	N		G-4376		2005
24-Aug-05	0.4375	L	U		1259	AC	565	1900	1.05		N	N		G-4377		2005
24-Aug-05	0.4375	L	U		1260	AC	491	1220	1.03		N	N		G-4378		2005
24-Aug-05	0.4375	L	U		1261	AC	629	2885	1.16		N	N		G-4379		2005
24-Aug-05	0.4375	L	U		1262	AC	469	1030	1.00		N	N		G-4380		2005
24-Aug-05	0.4375	L	U		1263	AC	339	420	1.08		N	N		G-4381		2005
24-Aug-05	0.47222222	U	U		1264	AC	823	5885	1.06		N	Y		W-2516		2002
25-Aug-05	0.5	L	U		1293	AC	650	3050	1.11		N	N		G-4401		2005
25-Aug-05	0.5	L	U		1294	AC	511	1370	1.03		N	N		G-4402		2005
25-Aug-05	0.5	L	U		1295	AC	336	450	1.19		N	N		G-4403		2005
25-Aug-05	0.5	L	U		1296	AC	367	565	1.14		N	N		G-4404		2005
25-Aug-05	0.5	L	U		1297	AC	641	2880	1.09		N	N		G-4405		2005
25-Aug-05	0.5	L	U		1298	AC	605	2620	1.18		N	N		G-4406		2005
25-Aug-05	0.5	L	U		1299	AC	381	680	1.23		N	Y		G-4214		2004
25-Aug-05	0.5	L	U		1300	AC	348	465	1.10		N	Y		G-4203		2004
25-Aug-05	0.5	L	U		1301	AC	326	395	1.14		N	N		G-4407		2005
25-Aug-05	0.5	L	U		1302	AC	633	2710	1.07		N	N		G-4408		2005
25-Aug-05	0.5	L	U		1303	AC	378	580	1.07		N	N		G-4409		2005
25-Aug-05	0.5	L	U		1304	AC	343	485	1.20		N	N		G-4410		2005
25-Aug-05	0.5	L	U		1305	AC	575	2045	1.08		N	N		G-4411		2005
25-Aug-05	0.53472222	U	U		1306	AC	753	3210	0.75		N	Y		G-4352		2005
25-Aug-05	0.53472222	U	U		1307	LT	447	745	0.83		N	Y		G-4326		2005
25-Aug-05	0.53472222	U	U		1308	AC	469	1030	1.00		N	Y		G-4380		2005
25-Aug-05	0.53472222	U	U		1309	AC	-	-	-		N	Y		G-4371		2005
25-Aug-05	0.53472222	U	U		1310	LT	409	710	1.04		N	Y		G-4365		2005
25-Aug-05	0.53472222	U	U		1311	LT	480	1285	1.16		N	Y		G-3460		2003
26-Aug-05	0.36458333	L	U		1324	AC	387	565	0.97		N	N		G-4423		2005
26-Aug-05	0.36458333	L	U		1325	AC	282	245	1.09		N	N		G-4424		2005
26-Aug-05	0.36458333	L	U		1326	AC	770	3785	0.83		N	N	985153000021035	G-4425	2007	2005
26-Aug-05	0.36458333	L	U		1327	AC	363	555	1.16		N	N		G-4420		2005
26-Aug-05	0.36458333	L	U		1328	AC	401	645	1.00		N	Y		G-4126		2004
26-Aug-05	0.36458333	L	U		1329	AC	279	230	1.06		N	N		G-4427		2005
26-Aug-05	0.36458333	L	U		1330	AC	409	690	1.01		N	N		G-4428		2005
26-Aug-05	0.38194444	U	U		1331	AC	650	3050	1.11		N	Y		G-4401		2005
26-Aug-05	0.38194444	U	U		1332	AC	511	1370	1.03		N	Y		G-4402		2005
26-Aug-05	0.38194444	U	U		1333	AC	611	2295	1.01		N	Y		G-4327		2005
26-Aug-05	0.38194444	U	U		1334	AC	326	395	1.14		N	Y		G-4407		2005
26-Aug-05	0.38194444	U	U		1335	AC	633	2710	1.07		N	Y		G-4408		2005
26-Aug-05	0.38194444	U	U		1336	AC	629	2885	1.16		N	Y		G-4379		2005
26-Aug-05	0.38194444	U	U		1337	AC	478	1170	1.07		N	Y		G-4331		2005
26-Aug-05	0.38194444	U	U		1338	AC	378	580	1.07		N	Y		G-4409		2005
26-Aug-05	0.38194444	U	U		1339	AC	381	680	1.23		N	Y		G-4214		2004
26-Aug-05	0.38194444	U	U		1340	AC	367	565	1.14		N	Y		G-4404		2005
27-Aug-05	0.77083333	U	U		1383	AC	343	485	1.20		N	Y		G-4410		2005
27-Aug-05	0.77083333	U	U		1384	LT	414	925	1.30		N	Y		G-4036		2004
27-Aug-05	0.77083333	U	U		1385	LT	609	2460	1.09		N	Y		G-4280		2005
27-Aug-05	0.77083333	U	U		1386	AC	641	2880	1.09		N	Y		G-4405		2005
27-Aug-05	0.77083333	U	U		1387	LT	413	785	1.11		N	Y		G-4035		2004
27-Aug-05	0.77083333	U	U		1388	LT	417	740	1.02		N	Y		G-4340		2005
27-Aug-05	0.77083333	U	U		1389	AC	463	1020	1.03		N	Y		G-4101		2004
27-Aug-05	0.77083333	U	U		1390	AC	543	1855	1.16		N	Y	985120031573231	G-4355	2007	2005
27-Aug-05	0.77083333	U	U		1391	AC	710	3905	1.09		N	Y		G-4257		2005
27-Aug-05	0.77083333	U	U		1392	AC	620	2205	0.93		N	Y		G-4311		2005
27-Aug-05	0.77083333	U	U		1393	AC	558	1725	0.99		N	Y		G-3411		2003
27-Aug-05	0.77083333	U	U		1394	AC	674	3100	1.01		N	Y		G-4338		2005
27-Aug-05	0.77083333	U	U		1395	LT	446	1080	1.22		N	Y		G-4289		2005
27-Aug-05	0.77083333	U	U		1396	AC	330	415	1.15		N	N		G-4451		2005
27-Aug-05	0.77083333	U	U		1397	LT	493	1235	1.03		N	Y		G-3382		2003
27-Aug-05	0.79166667	L	U		1398	LT	431	970	1.21		N	Y		W-2287		2002
27-Aug-05	0.79166667	L	U		1399	LT	455	945	1.00		N	Y		G-4060		2004
27-Aug-05	0.79166667	L	U		1400	AC	590	1955	0.95		N	N		G-4452		2005
27-Aug-05	0.79166667	L	U		1401	LT	422	875	1.16		N	Y		G-4143		2004
27-Aug-05	0.79166667	L	U		1402	AC	329	405	1.14		N	Y	985120031657335	G-4237	2007	2004
27-Aug-05	0.79166667	L	U		1403	AC	329	415	1.17		N	N		G-4453		2005
27-Aug-05	0.79166667	L	U		1404	LT	487	1075	0.93		N	N	985120031613687	G-4454	2007	2005
27-Aug-05	0.79166667	L	U		1405	AC	597	2525	1.19		N	N		G-4455		2005
27-Aug-05	0.79166667	L	U		1406	AC	342	435	1.09		N	Y		G-4193		2004
27-Aug-05	0.79166667	L	U		1407	LT	460	1070	1.10		N	N		G-4456		2005
27-Aug-05	0.79166667	L	U		1408	AC	264	190	1.03		N	N		G-4457		2005
29-Aug-05	0.38541667	U	U		1409	LT	455	945	1.00		N	Y		G-4060		2004
29-Aug-05	0.38541667	U	U		1410	AC	491	1220	1.03		N	Y		G-4378		2005
29-Aug-05	0.38541667	U	U		1411	AC	347	430	1.03		N	Y		G-4236		2004
29-Aug-05	0.70833333	L	U		1432	AC	324	395	1.16		N	N		G-4462		2005
29-Aug-05	0.70833333	L	U		1433	AC	428	775	0.99		N	Y		G-4243		2004
30-Aug-05	0.38541667	L	U		1434	AC	764	4500	1.01		N	N		G-4463		2005
30-Aug-05	0.38541667	L	U		1435	AC	305	320	1.13		N	N		G-4465		2005
30-Aug-05	0.38541667	L	U		1436	AC	582	2080	1.06		N	N		G-4466		2005
30-Aug-05	0.38541667	L	U		1437	AC	710	5080	1.42		Y	Y		G-4307		2005
30-Aug-05	0.40625	U	U		1438	AC	308	305	1.04		N	N		G-4467		2005
30-Aug-05	0.40625	U	U		1439	AC	348	480	1.14		N	N		G-4472		2005
30-Aug-05	0.40625	U	U		1440	AC	331	350	0.97		N	Y		G-4469		2005
30-Aug-05	0.40625	U	U		1441	AC	654	2625	0.94		N	N		G-4470		2005
31-Aug-05	0.52083333	L	U		1462	AC	284	260	1.14		Y	Y				
31-Aug-05	0.52083333	L	U		1463	LT	673	2990	0.98		N	N		G-4480		2005
31-Aug-05	0.52083333	L	U		1464	AC	318	385	1.20		N	N		G-4481		2005
31-Aug-05	0.52083333	L	U		1465	AC	235	135	1.04		N	N				
31-Aug-05	0.52083333	L	U		1466	AC	468	1005	0.98		N	N		G-4482		2005
31-Aug-05	0.52083333	L	U		1467	AC	307	295	1.02		N	N		G-4483		2005
31-Aug-05	0.52083333	L	U		1468	AC	506	1420	1.10		N	Y		G-3406		2003
31-Aug-05	0.52083333	L	U		1469	AC	309	305	1.03		N	N		G-4484		2005
31-Aug-05	0.52083333	L	U		1470	AC	275	190	0.91		N	N				
31-Aug-05	0.52083333	L	U		1471	AC	296	240	0.93		N	N		G-4485		2005
31-Aug-05	0.52083333	L	U		1472	LT	392	740	1.23		N	N		G-4486		2005
31-Aug-05	0.52083333	L	U		1473	AC	310	320	1.07		N	N		G-4487		2005
31-Aug-05	0.625	U	U		1474	AC	503	1415	1.11		N	Y		G-3406		2003
31-Aug-05	0.6875	RLFN-01	U		1477	LT	405	715	1.08		N	N		G-4488		2005
31-Aug-05	0.6875	RLFN-01	U		1478	AC	192	65	0.92		N	N				
1-Sep-05	0.36805556	L	U		1491	AC	358	535	1.17		N	N		G-4497		2005

Species Code: AC = Arctic char, LT = lake trout, LW = lake whitefish, RW = round whitefish, CISC = least cisco, SC = saffron cod

Box Location: L = Lower, U = Upper

Fish Direction: D = Downstream, U = Upstream

Y = yes, N = no

Dashes indicate not applicable

Appendix 7. Biological and Tagging Data from Fish Fences in Roberts Outflow, Doris North Project, 2012

Date (dd/mm/yy)	Time (24 hr clock)	Box Location (U/L)	Fish Direction (U/D)	Water Temp (˚C)	Unique Sample No.	Species Code	Fork Length (mm)	Weight (g)	Condition (K)	Age (years)	Mortality (Y/N)	Recap (Y/N)	PIT Tag No.	Floy Tag No.	PIT Tag Year	Floy Tag Year
1-Sep-05	0.36805556	L	U		1492	LT	407	680	1.01		N	N		G-4498		2005
1-Sep-05	0.36805556	L	U		1493	AC	530	1340	0.90		N	N		G-4499		2005
1-Sep-05	0.36805556	L	U		1494	LT	458	940	0.98		N	N		G-4500		2005
1-Sep-05	0.36805556	L	U		1495	AC	337	425	1.11		N	N		G-4501		2005
1-Sep-05	0.36805556	L	U		1496	AC	345	445	1.08		N	N		G-4502		2005
1-Sep-05	0.36805556	L	U		1497	AC	387	565	0.97		N	N		G-4503		2005
1-Sep-05	0.36805556	L	U		1498	AC	302	305	1.11		N	N		G-4504		2005
1-Sep-05	0.36805556	L	U		1499	AC	315	285	0.91		N	N		G-4505		2005
1-Sep-05	0.38541667	U	U		1500	LT	790	4510	0.91		N	Y		G-4263		2005
1-Sep-05	0.38541667	U	U		1501	AC	318	385	1.20		N	Y		G-4481		2005
1-Sep-05	0.38541667	U	U		1502	LT	557	2220	1.28		N	Y		G-4276		2005
1-Sep-05	0.38541667	U	U		1503	LT	392	740	1.23		N	Y		G-4486		2005
1-Sep-05	0.38541667	U	U		1504	LT	508	1735	1.32		N	Y		G-4283		2005
2-Sep-05	0.6875	L	U		1554	AC	463	995	1.00		N	N		G-4534		2005
2-Sep-05	0.6875	L	U		1555	AC	392	605	1.00		N	Y		G-4238		2004
2-Sep-05	0.6875	L	U		1556	AC	285	235	1.02		N	N		G-4535		2005
2-Sep-05	0.6875	L	U		1557	AC	276	230	1.09		N	N		G-4536		2005
2-Sep-05	0.6875	L	U		1558	AC	326	350	1.01		N	N		G-4537		2005
2-Sep-05	0.6875	L	U		1559	AC	275	205	0.99		N	N		G-4538		2005
3-Sep-05	0.54166667	RLFN-02	U		1560	LT	300	265	0.98		N	N		G-4539		2005
3-Sep-05	0.57291667	L	U		1562	AC	623	2370	0.98		N	N		G-4540		2005
3-Sep-05	0.57291667	L	U		1563	AC	297	275	1.05		N	N		G-4541		2005
3-Sep-05	0.57291667	L	U		1564	AC	240	130	0.94		N	N				
3-Sep-05	0.57291667	L	U		1565	AC	426	885	1.14		N	N		G-4542		2005
3-Sep-05	0.57291667	L	U		1566	LT	337	350	0.91		N	N		G-4543		2005
3-Sep-05	0.57291667	L	U		1567	AC	318	335	1.04		N	N		G-4544		2005
3-Sep-05	0.57291667	L	U		1568	AC	299	290	1.08		N	N		G-4545		2005
3-Sep-05	0.57291667	L	U		1569	AC	356	485	1.07		N	N		G-4546		2005
3-Sep-05	0.57291667	L	U		1570	AC	288	130	0.54		N	N				
3-Sep-05	0.59027778	U	U		1571	AC	315	285	0.91		N	Y		G-4505		2005
3-Sep-05	0.59027778	U	U		1572	AC	326	350	1.01		N	Y		G-4537		2005
4-Sep-05	0.38194444	L	U		1596	AC	219	100	0.95		N	N				
4-Sep-05	0.38194444	L	U		1597	AC	261	185	1.04		N	N				
4-Sep-05	0.38194444	L	U		1598	AC	254	160	0.98		N	N				
4-Sep-05	0.38194444	L	U		1599	AC	293	230	0.91		N	N		G-4547		2005
4-Sep-05	0.38194444	L	U		1600	AC	290	220	0.90		N	N		G-4548		2005
4-Sep-05	0.38194444	L	U		1601	AC	261	175	0.98		N	N				
4-Sep-05	0.38194444	L	U		1602	AC	291	245	0.99		N	N		G-4549		2005
4-Sep-05	0.38194444	L	U		1603	AC	307	305	1.05		N	N		G-4649		2005
4-Sep-05	0.38194444	L	U		1604	AC	228	130	1.10		N	N				
4-Sep-05	0.39930556	U	U		1605	AC	463	995	1.00		N	Y		G-4534		2005
4-Sep-05	0.39930556	U	U		1606	AC	260	175	1.00		N	N				
4-Sep-05	0.39930556	U	U		1607	AC	228	125	1.05		N	N				
5-Sep-05	0.42361111	L	U		1620	AC	363	445	0.93		N	N		G-4560		2005
5-Sep-05	0.42361111	L	U		1621	AC	350	445	1.04		N	N		G-4561		2005
5-Sep-05	0.42361111	L	U		1622	AC	331	380	1.05		N	Y		G-4234		2004
5-Sep-05	0.42361111	L	U		1623	AC	309	285	0.97		N	N		G-4562		2005
5-Sep-05	0.42361111	L	U		1624	AC	274	190	0.92		N	N				
5-Sep-05	0.42361111	L	U		1625	AC	292	250	1.00		N	N		G-4563		2005
5-Sep-05	0.42361111	L	U		1626	AC	299	295	1.10		N	N		G-4564		2005
5-Sep-05	0.42361111	L	U		1627	AC	265	165	0.89		N	N				
5-Sep-05	0.44444444	U	U		1628	AC	260	180	1.02		N	N				
6-Sep-05	0.43055556	L	U		1688	AC	245	140	0.95		N	N				
6-Sep-05	0.43055556	L	U		1689	AC	284	210	0.92		N	N		G-4571		2005
6-Sep-05	0.5	U	U		1690	AC	710	5080	1.42		N	Y		G-4307		2005
6-Sep-05	0.5	U	U		1691	AC	620	2595	1.09		N	N		G-4572		2005
6-Sep-05	0.64583333	RLFN-02	U		1692	LT	371	515	1.01		N	N		G-4573		2005
6-Sep-05	0.64583333	RLFN-02	U		1693	LT	395	635	1.03		N	N		G-4574		2005
6-Sep-05	0.64583333	RLFN-02	U		1694	LT	382	570	1.02		N	N		G-4575		2005
6-Sep-05	0.64583333	RLFN-02	U		1695	LT	187	55	0.84		N	N				
6-Sep-05	0.64583333	RLFN-02	U		1696	AC	195	65	0.88		N	N				
7-Sep-05	0.375	L	U		1697	AC	237	125	0.94		N	N				
7-Sep-05	0.375	L	U		1698	LT	463	1000	1.01		N	Y		G-3384		2003
7-Sep-05	0.44791667	U	U		1702	AC	284	210	0.92		N	Y		G-4571		2005
7-Sep-05	0.44791667	U	U		1703	AC	243	140	0.98		N	N				
7-Sep-05	0.44791667	U	U		1704	AC	356	445	0.99		N	N		G-4578		2005
8-Sep-05	0.41666667	L	U		1710	AC	237	130	0.98		N	N				
8-Sep-05	0.41666667	L	U		1711	AC	322	310	0.93		N	N		G-4580		2005
9-Sep-05	0.75	RLFN-03	U		1780	LT	325	325	0.95		N	N		G-4660		2005
9-Sep-05	0.75	RLFN-03	U		1781	LT	265	200	1.07		N	N		G-4661		2005
9-Sep-05	0.75	RLFN-03	U		1782	LT	261	170	0.96		N	N				
9-Sep-05	0.75	RLFN-03	U		1783	LT	202	80	0.97		N	N				
10-Sep-05	0.38541667	L	U		1784	AC	327	375	1.07		N	N		G-4600		2005
10-Sep-05	0.38541667	L	U		1785	AC	288	230	0.96		N	N		G-4601		2005
10-Sep-05	0.38541667	L	U		1786	AC	298	260	0.98		N	N		G-4602		2005
10-Sep-05	0.38541667	L	U		1787	AC	279	220	1.01		N	N	985153000021468	G-4603	2007	2005
10-Sep-05	0.38541667	L	U		1788	AC	239	135	0.99		N	N				
10-Sep-05	0.38541667	L	U		1789	LT	396	540	0.87		N	N		G-4604		2005
10-Sep-05	0.38541667	L	U		1790	AC	274	180	0.88		N	N				
11-Sep-05	0.46875	RLFN-04	U		1810	LT	208	85	0.94		N	N				
11-Sep-05	0.46875	RLFN-04	U		1811	LT	196	80	1.06		N	N				
11-Sep-05	0.46875	RLFN-04	U		1812	AC	119	20	1.19		Y	Y				
11-Sep-05	0.64583333	L	U		1846	LT	390	645	1.09		N	N		G-4608		2005
11-Sep-05	0.64583333	L	U		1847	AC	245	160	1.09		N	N				
11-Sep-05	0.64583333	L	U		1848	AC	237	140	1.05		N	N				
11-Sep-05	0.64583333	L	U		1849	AC	260	190	1.08		N	N				
12-Sep-05	0.5	L	U		1850	AC	360	440	0.94		N	N		G-4609		2005
12-Sep-05	0.5	L	U		1851	LT	421	840	1.13		N	N		G-4610		2005
8-Aug-04		L	U		1	LT	487	1350	1.17		N	Y		G-3034		2003
8-Aug-04		U	U		2	LT	390	560	0.94		N	N	985153000021442	G-3575	2007	2004
8-Aug-04		L	U		3	LT	470	830	0.80		N	N		G-4000		2004
8-Aug-04		L	U		4	LT	447	1010	1.13		N	Y		B-036		2000
8-Aug-04		L	U		5	LT	510	1805	1.36		N	N		G-4001		2004
8-Aug-04		L	U		6	LT	539	2000	1.28		N	N		G-4002		2004
8-Aug-04		L	U		7	LT	418	790	1.08		N	N		G-4003		2004
9-Aug-04		L	U		8	AC	852	5475	0.89		N	Y		W-2337		2002
9-Aug-04		L	U		9	AC	819	5120	0.93		N	N		G-4004		2004
9-Aug-04		L	U		10	AC	758	4950	1.14		N	N		G-4005		2004
9-Aug-04		L	U		11	AC	725	4110	1.08		N	N		G-4006		2004

Species Code: AC = Arctic char, LT = lake trout, LW = lake whitefish, RW = round whitefish, CISC = least cisco, SC = saffron cod

Box Location: L = Lower, U = Upper

Fish Direction: D = Downstream, U = Upstream

Y = yes, N = no

Dashes indicate not applicable

Appendix 7. Biological and Tagging Data from Fish Fences in Roberts Outflow, Doris North Project, 2012

Date (dd/mm/yy)	Time (24 hr clock)	Box Location (U/L)	Fish Direction (U/D)	Water Temp (˚C)	Unique Sample No.	Species Code	Fork Length (mm)	Weight (g)	Condition (K)	Age (years)	Mortality (Y/N)	Recap (Y/N)	PIT Tag No.	Floy Tag No.	PIT Tag Year	Floy Tag Year
9-Aug-04		L	U		12	LT	623	2620	1.08		N	N		G-4007		2004
9-Aug-04		L	U		13	AC	700	4235	1.23		N	N		G-4008		2004
9-Aug-04		L	U		14	LT	580	2280	1.17		N	N	9.85153E+14	G-4009	2007	2004
9-Aug-04		L	U		15	LT	496	1505	1.23		N	N	985153000021496	G-4010	2007	2004
9-Aug-04		L	U		16	LT	487	1430	1.24		N	N		G-4011		2004
9-Aug-04		L	U		17	LT	596	2710	1.28		N	N		G-4012		2004
9-Aug-04		L	U		18	LT	508	1630	1.24		N	N		G-4013		2004
9-Aug-04		L	U		19	LT	481	1310	1.18		N	N		G-4014		2004
9-Aug-04		L	U		20	LT	406	1070	1.60		N	N		G-4015		2004
9-Aug-04		L	U		21	LT	432	910	1.13		N	N	985153000021493	G-4016	2007	2004
9-Aug-04		L	U		22	LT	473	1185	1.12		N	N	985120031599158	G-4017	2007	2004
9-Aug-04		U	U		23	LT	-	-	-		N	Y		B-036		2000
9-Aug-04		L	U		31	AC	790	4225	0.86		N	Y		W-2525		2002
9-Aug-04		L	U		32	AC	609	2220	0.98		N	N		G-4019		2004
9-Aug-04		L	U		33	AC	802	7130	1.38		N	N		G-4021		2004
9-Aug-04		L	U		34	AC	784	5345	1.11		N	N		G-4020		2004
9-Aug-04		L	U		35	AC	782	4545	0.95		N	N		G-4022		2004
9-Aug-04		L	U		36	LT	584	2280	1.14		N	N		G-4023		2004
9-Aug-04		L	U		37	LT	485	1340	1.17		N	N		G-4024		2004
9-Aug-04		L	U		38	AC	605	2740	1.24		N	N		G-4025		2004
9-Aug-04		L	U		39	LT	531	2075	1.39		N	N		G-4026		2004
9-Aug-04		L	U		40	LT	504	1565	1.22		N	N		G-4027		2004
9-Aug-04		U	U		41	LT	-	-	-		N	Y	9.85153E+14	G-4009	2007	2004
9-Aug-04		U	U		42	LT	-	-	-		N	Y	985153000021496	G-4010	2007	2004
10-Aug-04		L	U		43	AC	860	6830	1.07		N	N		G-4028		2004
10-Aug-04		L	U		44	AC	708	3710	1.05		N	N		G-4029		2004
10-Aug-04		L	U		45	AC	825	5650	1.01		N	Y		G-3490		2003
10-Aug-04		L	U		46	LT	512	1930	1.44		N	N	985120031587003	G-4030	2007	2004
10-Aug-04		L	U		47	LT	530	2115	1.42		N	N		G-4031		2004
10-Aug-04		L	U		48	LT	549	2010	1.21		N	N		G-4032		2004
10-Aug-04		L	U		49	AC	740	4520	1.12		N	N		G-4033		2004
10-Aug-04		L	U		50	LT	522	1855	1.30		N	N	985153000021422	G-4034	2007	2004
10-Aug-04		L	U		51	LT	436	1020	1.23		N	N		G-4035		2004
10-Aug-04		L	U		52	LT	419	940	1.28		N	N		G-4036		2004
10-Aug-04		L	U		53	LT	489	1430	1.22		N	N		G-4037		2004
10-Aug-04		L	U		54	LT	524	1685	1.17		N	N		G-4038		2004
10-Aug-04		L	U		55	LT	455	1085	1.15		N	N		G-4039		2004
10-Aug-04		U	U		56	LT	-	-	-		N	Y	985153000021493	G-4016	2007	2004
10-Aug-04		U	U		57	LT	-	-	-		N	Y		G-4015		2004
10-Aug-04		L	U		77	AC	583	1985	1.00		N	Y		G-3226		2003
10-Aug-04		L	U		78	AC	592	2150	1.04		N	N		G-4047		2004
10-Aug-04		U	U		79	AC	-	-	-		N	Y		G-4005		2004
11-Aug-04		L	U		80	LT	461	1120	1.14		N	N		G-4050		2004
11-Aug-04		L	U		81	AC	383	585	1.04		N	N		G-4051		2004
11-Aug-04		L	U		82	LT	463	1040	1.05		N	N		G-4052		2004
11-Aug-04		L	U		83	LT	495	1555	1.28		N	N		G-4053		2004
11-Aug-04		L	U		84	LT	422	930	1.24		N	Y		G-3206		2003
11-Aug-04		L	U		85	LT	435	950	1.15		N	N		G-4054		2004
11-Aug-04		L	U		86	LT	538	2070	1.33		N	N	985153000021447	G-4055	2007	2004
11-Aug-04		L	U		87	LT	461	1005	1.03		N	N		G-4056		2004
11-Aug-04		L	U		88	LT	411	845	1.22		N	N		G-4057		2004
11-Aug-04		L	U		89	LT	570	2170	1.17		N	N		G-4058		2004
11-Aug-04		L	U		90	LT	553	2260	1.34		N	N		G-4059		2004
11-Aug-04		L	U		91	LT	454	1085	1.16		N	N		G-4060		2004
11-Aug-04		L	U		92	AC	613	2400	1.04		N	Y		G-3214		2003
11-Aug-04		L	U		93	AC	631	3015	1.20		N	N		G-4061		2004
11-Aug-04		L	U		94	LT	546	1945	1.19		N	N		G-4062		2004
11-Aug-04		L	U		95	AC	773	4255	0.92		N	Y		G-3067		2003
11-Aug-04		U	U		96	AC	-	-	-		N	Y		G-4006		2004
11-Aug-04		U	U		97	AC	-	-	-		N	Y		G-3226		2003
11-Aug-04		U	U		98	AC	-	-	-		N	Y		G-4033		2004
11-Aug-04		U	U		99	AC	-	-	-		N	Y		G-4022		2004
11-Aug-04		U	U		100	LT	-	-	-		N	Y		G-4032		2004
11-Aug-04		U	U		101	LT	-	-	-		N	Y		G-4000		2004
11-Aug-04		U	U		102	AC	687	3435	1.06		N	Y		W-2309		2002
11-Aug-04		U	U		103	LT	-	-	-		N	Y	985120031587003	G-4030	2007	2004
11-Aug-04		U	U		104	LT	-	-	-		N	Y		G-4039		2004
11-Aug-04		U	U		105	LT	561	1875	1.06		N	N	985153000021420	G-4063	2007	2004
11-Aug-04		U	U		106	LT	619	2170	0.91		N	N		G-4064		2004
11-Aug-04		U	U		107	LT	-	-	-		N	Y		G-3034		2003
11-Aug-04		U	U		108	AC	787	5810	1.19		N	N		G-4065		2004
11-Aug-04		U	U		109	AC	773	5165	1.12		N	N		G-4066		2004
11-Aug-04		U	U		110	LT	-	-	-		N	Y		G-4027		2004
11-Aug-04		L	U		111	LT	385	655	1.15		N	Y		G-3308		2003
11-Aug-04		L	U		112	LT	455	985	1.05		N	Y		G-3306		2003
11-Aug-04		L	U		113	LT	410	785	1.14		N	N		G-4067		2004
11-Aug-04		U	U		114	AC	-	-	-		N	Y		G-4008		2004
11-Aug-04		U	U		115	LT	-	-	-		N	Y		G-4053		2004
11-Aug-04		U	U		116	LT	-	-	-		N	Y	985153000021447	G-4055	2007	2004
11-Aug-04		U	U		117	LT	-	-	-		N	Y		G-3206		2003
11-Aug-04		U	U		118	LT	475	1140	1.06		N	N		G-4068		2004
12-Aug-04		L	U		119	AC	821	5625	1.02		N	Y		G-3099		2003
12-Aug-04		L	U		120	AC	892	6455	0.91		N	N		G-4069		2004
12-Aug-04		L	U		121	AC	780	5405	1.14		N	N		G-4072		2004
12-Aug-04		L	U		122	AC	580	2030	1.04		N	Y		W-2325		2002
12-Aug-04		L	U		123	LT	580	2160	1.11		N	N		G-4073		2004
12-Aug-04		L	U		124	AC	780	5120	1.08		N	Y		G-3066		2003
12-Aug-04		L	U		125	AC	778	5175	1.10		N	N		G-4074		2004
12-Aug-04		L	U		126	AC	819	6755	1.23		N	N		G-4076		2004
12-Aug-04		L	U		127	AC	819	6755	1.23		N	N		G-4077		2004
12-Aug-04		L	U		128	AC	613	2580	1.12		N	Y		G-3183		2003
12-Aug-04		L	U		129	AC	719	4185	1.13		N	N	985120031459610	G-4078	2007	2004
12-Aug-04		L	U		130	AC	775	4880	1.05		N	N		G-4079		2004
12-Aug-04		L	U		131	LT	550	2020	1.21		N	N		G-4080		2004
12-Aug-04		L	U		132	AC	815	4815	0.89		N	Y		G-3095		2003
12-Aug-04		L	U		133	AC	700	3100	0.90		N	Y		G-3133		2003
12-Aug-04		L	U		134	LT	470	1080	1.04		N	N		G-4081		2004
12-Aug-04		L	U		135	LT	560	2085	1.19		N	N		G-4082		2004
12-Aug-04		L	U		136	LT	400	810	1.27		N	Y		B-041		2000

Species Code: AC = Arctic char, LT = lake trout, LW = lake whitefish, RW = round whitefish, CISC = least cisco, SC = saffron cod

Box Location: L = Lower, U = Upper

Fish Direction: D = Downstream, U = Upstream

Y = yes, N = no

Dashes indicate not applicable

Appendix 7. Biological and Tagging Data from Fish Fences in Roberts Outflow, Doris North Project, 2012

Date (dd/mm/yy)	Time (24 hr clock)	Box Location (U/L)	Fish Direction (U/D)	Water Temp (˚C)	Unique Sample No.	Species Code	Fork Length (mm)	Weight (g)	Condition (K)	Age (years)	Mortality (Y/N)	Recap (Y/N)	PIT Tag No.	Floy Tag No.	PIT Tag Year	Floy Tag Year
12-Aug-04		L	U		137	AC	440	935	1.10		N	Y		G-3362		2003
12-Aug-04		L	U		138	LT	465	1090	1.08		N	N		G-4083		2004
12-Aug-04		U	U		139	LT	-	-	-		N	Y		G-4060		2004
12-Aug-04		U	U		140	LT	385	620	1.09		N	Y		G-3308		2003
12-Aug-04		U	U		141	LT	-	-	-		N	Y		G-4050		2004
12-Aug-04		U	U		142	LT	-	-	-		N	Y		G-3306		2003
12-Aug-04		U	U		143	LT	-	-	-		N	Y		G-4035		2004
12-Aug-04		U	U		144	LT	-	-	-		N	Y	985153000021422	G-4034	2007	2004
12-Aug-04		U	U		145	LT	-	-	-		N	Y		G-4054		2004
12-Aug-04		U	U		146	LT	-	-	-		N	Y		G-4056		2004
12-Aug-04		U	U		147	LT	-	-	-		N	Y		G-4062		2004
12-Aug-04		U	U		148	LT	-	-	-		N	Y		G-4067		2004
12-Aug-04		U	U		149	LT	-	-	-		N	Y		G-4052		2004
12-Aug-04		L	U		159	AC	726	4560	1.19		N	Y		G-3270		2003
12-Aug-04		L	U		160	AC	753	4615	1.08		N	N		G-4087		2004
12-Aug-04		L	U		161	AC	696	4415	1.31		N	N		G-4088		2004
12-Aug-04		L	U		162	AC	672	3175	1.05		N	N		G-4089		2004
12-Aug-04		L	U		163	LT	545	2100	1.30		N	N	985153000021085	G-4090	2007	2004
12-Aug-04		L	U		164	LT	512	1450	1.08		N	N		G-4091		2004
12-Aug-04		L	U		165	LT	467	1055	1.04		N	N		G-4092		2004
12-Aug-04		U	U		166	AC	-	-	-		N	Y		G-3066		2003
12-Aug-04		U	U		167	AC	-	-	-		N	Y		G-4019		2004
12-Aug-04		U	U		168	AC	-	-	-		N	Y		G-3099		2003
12-Aug-04		U	U		169	AC	496		0.00		N	N		G-4093		2004
12-Aug-04		U	U		170	AC	-	-	-		N	Y		W-2525		2002
12-Aug-04		U	U		171	AC	-	-	-		N	Y	985120031459610	G-4078	2007	2004
12-Aug-04		U	U		172	LT	-	-	-		N	Y		G-4059		2004
12-Aug-04		U	U		173	AC	-	-	-		N	Y		G-3067		2003
12-Aug-04		U	U		174	AC	-	-	-		N	Y		G-3214		2003
12-Aug-04		U	U		175	AC	-	-	-		N	Y		G-3183		2003
12-Aug-04		U	U		176	AC	-	-	-		N	Y		W-2325		2002
12-Aug-04		U	U		177	AC	725	3055	0.80		N	N		G-4094		2004
12-Aug-04		U	U		178	AC	-	-	-		N	Y		G-4047		2004
12-Aug-04		U	U		179	AC	-	-	-		N	Y		G-4051		2004
12-Aug-04		U	U		180	LT	-	-	-		N	Y		G-4036		2004
12-Aug-04		U	U		181	LT	-	-	-		N	Y		G-4023		2004
12-Aug-04		U	U		182	LT	487		0.00		N	N		G-4095		2004
12-Aug-04		U	U		183	AC	-	-	-		N	Y		G-3362		2003
12-Aug-04		U	U		184	LT	-	-	-		N	Y	985120031599158	G-4017	2007	2004
13-Aug-04		L	U		185	LT	424	845	1.11		N	Y		W-2232		2002
13-Aug-04		L	U		186	LT	477	1090	1.00		N	N	985153000021421	G-4096	2007	2004
13-Aug-04		L	U		187	LT	481	1290	1.16		N	N		G-4097		2004
13-Aug-04		L	U		188	LT	475	1200	1.12		N	N		G-4098		2004
13-Aug-04		L	U		189	AC	733	4475	1.14		N	Y		G-3087		2003
13-Aug-04		L	U		190	AC	756	4580	1.06		N	N		G-4100		2004
13-Aug-04		L	U		191	AC	438	985	1.17		N	N		G-4101		2004
13-Aug-04		L	U		192	LT	436	820	0.99		N	N		G-4102		2004
13-Aug-04		U	U		193	LT	-	-	-		N	Y		G-4007		2004
14-Aug-04		L	U		194	AC	833	6130	1.06		N	Y		G-3064		2003
14-Aug-04		L	U		195	LT	573	1800	0.96		N	N		G-4103		2004
14-Aug-04		L	U		196	AC	726	3970	1.04		N	N		G-4104		2004
14-Aug-04		L	U		197	AC	470	1060	1.02		N	N		G-4105		2004
14-Aug-04		L	U		198	LT	450	1060	1.16		N	N		G-4106		2004
14-Aug-04		L	U		199	LT	397	645	1.03		N	N		G-4107		2004
14-Aug-04		L	U		200	LT	471	1035	0.99		N	N		G-4108		2004
14-Aug-04		U	U		201	LT	-	-	-		N	Y	985153000021085	G-4090	2007	2004
14-Aug-04		U	U		202	LT	-	-	-		N	Y		G-4098		2004
14-Aug-04		U	U		203	LT	-	-	-		N	Y		G-4102		2004
14-Aug-04		U	U		204	LT	-	-	-		N	Y		G-4083		2004
14-Aug-04		U	U		206	LT	-	-	-		N	Y		G-4057		2004
14-Aug-04		U	U		207	AC	-	-	-		N	Y		G-3087		2003
14-Aug-04		L	U		208	LT	488	1310	1.13		N	N		G-4109		2004
15-Aug-04		L	U		213	AC	782	6485	1.36		N	N		G-4110		2004
15-Aug-04		L	U		214	AC	595	2335	1.11		N	N		G-4111		2004
15-Aug-04		L	U		215	AC	793	4950	0.99		N	N		G-4112		2004
15-Aug-04		L	U		216	AC	722	4605	1.22		N	N		G-4113		2004
15-Aug-04		L	U		217	AC	421	760	1.02		N	Y		G-3404		2003
15-Aug-04		L	U		218	AC	517	1635	1.18		N	N		G-4114		2004
15-Aug-04		L	U		219	AC	389	565	0.96		N	N		G-4115		2004
15-Aug-04		L	U		220	AC	408	630	0.93		N	N		G-4116		2004
16-Aug-04		L	U		221	AC	870	7500	1.14		N	N		G-4117		2004
16-Aug-04		L	U		222	AC	725	4465	1.17		N	N		G-4118		2004
16-Aug-04		L	U		223	LT	490	1185	1.01		N	Y		W-2147		2002
16-Aug-04		L	U		224	AC	715	4455	1.22		N	N		G-4119		2004
16-Aug-04		L	U		225	LT	398	665	1.05		N	N		G-4120		2004
16-Aug-04		L	U		226	LT	430	770	0.97		N	N		G-4121		2004
16-Aug-04		U	U		227	AC	-	-	-		N	Y		G-4028		2004
16-Aug-04		U	U		228	AC	-	-	-		N	Y		G-4116		2004
17-Aug-04		L	U		229	AC	695	3425	1.02		N	Y		G-3213		2003
17-Aug-04		U	U		230	AC	-	-	-		Y	Y		G-4104		2004
18-Aug-04		L	U		244	AC	330	345	0.96		N	N		G-4122		2004
18-Aug-04		L	U		245	AC	753	4100	0.96		N	N		G-4123		2004
18-Aug-04		L	U		246	AC	475	1030	0.96		N	Y		W-2220		2002
18-Aug-04		L	U		247	AC	339	375	0.96		N	N		G-4126		2004
18-Aug-04		L	U		248	AC	352	420	0.96		N	N		G-4131		2004
18-Aug-04		L	U		249	AC	556	1715	1.00		N	N		G-4132		2004
18-Aug-04		L	U		250	LT	452	1140	1.23		N	Y		G-3301		2003
18-Aug-04		L	U		251	AC	253	200	1.24		N	N		G-4133		2004
18-Aug-04		L	U		252	AC	240	140	1.01		N	N				
18-Aug-04		L	U		253	AC	355	460	1.03		N	N		G-4134		2004
18-Aug-04		L	U		254	AC	419	620	0.84		N	N		G-4135		2004
19-Aug-04		L	U		267	AC	786	5245	1.08		N	Y		G-3378		2003
19-Aug-04		L	U		268	AC	730	3985	1.02		N	Y		W-2321		2002
19-Aug-04		L	U		269	LT	772	5360	1.16		N	N		G-4136		2004
19-Aug-04		L	U		270	AC	765	4015	0.90		N	Y		G-3398		2003
19-Aug-04		L	U		271	LT	425	880	1.15		N	Y		G-3259		2003
19-Aug-04		L	U		272	AC	354	475	1.07		N	N		G-4138		2004
19-Aug-04		L	U		273	AC	297	250	0.95		N	N		G-4139		2004

Species Code: AC = Arctic char, LT = lake trout, LW = lake whitefish, RW = round whitefish, CISC = least cisco, SC = saffron cod

Box Location: L = Lower, U = Upper

Fish Direction: D = Downstream, U = Upstream

Y = yes, N = no

Dashes indicate not applicable

Appendix 7. Biological and Tagging Data from Fish Fences in Roberts Outflow, Doris North Project, 2012

Date (dd/mm/yy)	Time (24 hr clock)	Box Location (U/L)	Fish Direction (U/D)	Water Temp (˚C)	Unique Sample No.	Species Code	Fork Length (mm)	Weight (g)	Condition (K)	Age (years)	Mortality (Y/N)	Recap (Y/N)	PIT Tag No.	Floy Tag No.	PIT Tag Year	Floy Tag Year
19-Aug-04		L	U		274	AC	313	315	1.03		N	N		G-4141		2004
19-Aug-04		L	U		275	AC	326	380	1.10		N	N		G-4142		2004
19-Aug-04		U	U		276	AC	-	-	-		N	Y		W-2220		2002
20-Aug-04		L	U		277	LT	416	845	1.17		N	N		G-4143		2004
20-Aug-04		L	U		278	AC	412	700	1.00		N	Y		G-3387		2003
20-Aug-04		U	U		279	AC	-	-	-		N	Y		G-4123		2004
20-Aug-04		L	U		302	LT	462	1150	1.17		N	Y		W-2151		2002
20-Aug-04		L	U		303	LT	454	1030	1.10		N	N		G-4137		2004
20-Aug-04		L	U		304	AC	493	1260	1.05		N	N		G-4145		2004
21-Aug-04		L	U		308	AC	400	665	1.04		N	Y		G-3472		2003
21-Aug-04		L	U		309	AC	484	1165	1.03		N	Y		B-027		2000
21-Aug-04		L	U		310	AC	720	4280	1.15		N	Y		G-3267		2003
21-Aug-04		L	U		311	AC	580	2120	1.09		N	N		G-4124		2004
21-Aug-04		L	U		312	AC	640	3105	1.18		N	N		G-4150		2004
21-Aug-04		L	U		313	AC	535	1680	1.10		N	N		G-4151		2004
21-Aug-04		L	U		314	LT	456	1065	1.12		N	Y		W-2252		2002
21-Aug-04		L	U		315	AC	722	4145	1.10		N	N		G-4152		2004
21-Aug-04		L	U		316	AC	432	865	1.07		N	N		G-4154		2004
21-Aug-04		L	U		317	AC	461	905	0.92		N	N		G-4156		2004
21-Aug-04		L	U		318	LT	492	1235	1.04		N	Y		G-3389		2003
21-Aug-04		L	U		319	AC	324	330	0.97		N	N		G-4199		2004
21-Aug-04		L	U		320	AC	465	1070	1.06		N	Y		G-3406		2003
21-Aug-04		U	U		321	LT	-	-	-		N	Y		G-4143		2004
21-Aug-04		U	U		322	LT	-	-	-		N	Y		G-4121		2004
21-Aug-04		U	U		323	LT	-	-	-		N	Y		W-2232		2002
23-Aug-04		U	U		363	LT	-	-	-		N	Y		G-3389		2003
23-Aug-04		U	U		364	AC	-	-	-		N	Y		G-4114		2004
23-Aug-04		U	U		365	AC	-	-	-		N	Y		G-4154		2004
23-Aug-04		U	U		366	AC	-	-	-		N	Y		G-3472		2003
23-Aug-04		U	U		367	AC	-	-	-		N	Y				
23-Aug-04		U	U		368	AC	-	-	-		N	Y		B-027		2000
23-Aug-04		U	U		369	AC	-	-	-		N	Y		G-4132		2004
23-Aug-04		L	U		370	AC	627	2370	0.96		N	N		G-4157		2004
23-Aug-04		L	U		371	AC	704	4180	1.20		N	N		G-4159		2004
23-Aug-04		L	U		372	AC	724	3930	1.04		N	N		G-4160		2004
23-Aug-04		U	U		373	AC	-	-	-		N	Y		G-4157		2004
23-Aug-04		L	U		374	LT	477	1270	1.17		N	N		G-4168		2004
23-Aug-04		L	U		375	AC	722	3605	0.96		N	N		G-4169		2004
25-Aug-04		L	U		383	AC	785	5240	1.08		N	Y		G-3356		2003
25-Aug-04		L	U		384	AC	820	5925	1.07		N	N				
25-Aug-04		L	U		385	LT	470	1080	1.04		N	Y		G-3063		2003
25-Aug-04		L	U		386	LT	410	750	1.09		N	N		G-4170		2004
25-Aug-04		U	U		410	AC	500	1085	0.87		N	N		G-4171		2004
26-Aug-04		L	U		411	AC	459	1115	1.15		N	Y		G-3471		2003
26-Aug-04		U	U		412	LT	-	-	-		N	Y		G-3063		2003
26-Aug-04		L	U		416	AC	763	4705	1.06		N	N		G-4172		2004
27-Aug-04		L	U		417	AC	705	3235	0.92		N	Y		W-2510		2002
27-Aug-04		L	U		418	AC	752	5285	1.24		N	Y		G-3221		2003
27-Aug-04		L	U		419	AC	650	2630	0.96		N	Y		W-2346		2002
27-Aug-04		L	U		420	AC	772	4810	1.05		N	N		G-4173		2004
27-Aug-04		L	U		421	AC	534	1720	1.13		N	N		G-4174		2004
27-Aug-04		L	U		422	AC	793	5390	1.08		N	Y		G-3265		2003
27-Aug-04		L	U		423	AC	293	220	0.87		N	N		G-4186		2004
27-Aug-04		L	U		424	AC	424	810	1.06		N	N		G-4187		2004
27-Aug-04		L	U		425	AC	406	760	1.14		N	N		G-4188		2004
27-Aug-04		L	U		426	AC	307	305	1.05		N	N		G-4189		2004
27-Aug-04		L	U		427	AC	382	490	0.88		N	Y		G-3381		2003
27-Aug-04		L	U		428	AC	429	865	1.10		N	N		G-4190		2004
27-Aug-04		L	U		429	AC	-	-	-		N	Y		G-4156		2004
28-Aug-04		L	U		441	AC	205	95	1.10		N	N				
28-Aug-04		L	U		442	AC	360	485	1.04		N	N		G-4191		2004
28-Aug-04		L	U		443	AC	250	155	0.99		N	N				
28-Aug-04		L	U		444	AC	520	1320	0.94		N	Y		G-3467		2003
28-Aug-04		L	U		445	AC	217	105	1.03		N	N				
28-Aug-04		L	U		446	AC	226	120	1.04		N	N				
28-Aug-04		L	U		447	AC	355	480	1.07		N	N		G-4192		2004
28-Aug-04		L	U		448	AC	279	245	1.13		N	N		G-4193		2004
28-Aug-04		L	U		449	AC	245	140	0.95		N	N				
28-Aug-04		L	U		481	AC	255	175	1.06		N	N		G-4195		2004
29-Aug-04		L	U		482	AC	302	285	1.03		N	N		G-4196		2004
29-Aug-04		L	U		483	AC	327	390	1.12		N	N		G-4197		2004
29-Aug-04		L	U		484	AC	272	190	0.94		N	N		G-4198		2004
30-Aug-04		L	U		485	AC	405	640	0.96		N	Y		G-3458		2003
30-Aug-04		L	U		486	AC	278	250	1.16		N	N		G-4200		2004
30-Aug-04		L	U		487	AC	290	215	0.88		N	N		G-4201		2004
30-Aug-04		L	U		488	AC	246	145	0.97		N	N				
30-Aug-04		L	U		489	AC	323	345	1.02		N	N		G-4202		2004
30-Aug-04		L	U		490	AC	437	825	0.99		N	Y		G-3455		2003
30-Aug-04		L	U		491	AC	297	260	0.99		N	N		G-4203		2004
30-Aug-04		L	U		492	AC	284	255	1.11		N	N		G-4204		2004
30-Aug-04		L	U		493	AC	741	3965	0.97		N	Y		W-2106		2002
30-Aug-04		L	U		499	AC	337	345	0.90		N	N		G-4210		2004
30-Aug-04		L	U		500	AC	325	340	0.99		N	N		G-4211		2004
30-Aug-04		L	U		501	AC	476	1055	0.98		N	Y		G-3400		2003
30-Aug-04		L	U		502	AC	504	1280	1.00		N	N		G-4212		2004
31-Aug-04		L	U		503	AC	252	170	1.06		N	N		G-4213		2004
31-Aug-04		L	U		504	AC	308	330	1.13		N	N		G-4214		2004
31-Aug-04		L	U		505	LT	445	845	0.96		N	N		G-4215		2004
31-Aug-04		L	U		506	AC	259	180	1.04		N	N		G-4216		2004
31-Aug-04		U	U		507	AC	-	-	-		N	Y		G-3467		2003
31-Aug-04		U	U		522	AC	-	-	-		N	Y		G-4216		2004
1-Sep-04		L	U		523	AC	798	6255	1.23		N	Y		W-2282		2002
1-Sep-04		L	U		524	AC	273	225	1.11		N	N		G-4217		2004
1-Sep-04		L	U		525	AC	296	240	0.93		N	N		G-4218		2004
1-Sep-04		L	U		526	AC	707	3660	1.04		N	N		G-4219		2004
1-Sep-04		L	U		527	CISC	331	415	1.14		N	N		G-4221		2004
1-Sep-04		L	U		528	AC	-	-	-		N	Y		G-4188		2004
2-Sep-04		L	U		537	AC	245	170	1.16		N	N				
2-Sep-04		L	U		538	AC	243	135	0.94		N	N				

Species Code: AC = Arctic char, LT = lake trout, LW = lake whitefish, RW = round whitefish, CISC = least cisco, SC = saffron cod

Box Location: L = Lower, U = Upper

Fish Direction: D = Downstream, U = Upstream

Y = yes, N = no

Dashes indicate not applicable

Appendix 7. Biological and Tagging Data from Fish Fences in Roberts Outflow, Doris North Project, 2012

Date (dd/mm/yy)	Time (24 hr clock)	Box Location (U/L)	Fish Direction (U/D)	Water Temp (˚C)	Unique Sample No.	Species Code	Fork Length (mm)	Weight (g)	Condition (K)	Age (years)	Mortality (Y/N)	Recap (Y/N)	PIT Tag No.	Floy Tag No.	PIT Tag Year	Floy Tag Year
2-Sep-04		L	U		539	AC	344	420	1.03		N	N		G-4227		2004
2-Sep-04		L	U		540	LT	380	500	0.91		N	N		G-4228		2004
2-Sep-04		L	U		541	AC	230	115	0.95		N	N				
2-Sep-04		L	U		542	AC	242	140	0.99		N	N				
2-Sep-04		L	U		543	AC	308	280	0.96		N	N		G-4229		2004
2-Sep-04		L	U		544	AC	270	180	0.91		N	N		G-4230		2004
2-Sep-04		L	U		545	AC	245	135	0.92		N	N				
3-Sep-04		L	U		547	AC	292	290	1.16		N	N		G-4231		2004
3-Sep-04		L	U		548	AC	296	275	1.06		N	N		G-4232		2004
3-Sep-04		L	U		549	AC	254	135	0.82		N	N		G-4233		2004
3-Sep-04		L	U		550	AC	269	200	1.03		N	N		G-4234		2004
3-Sep-04		L	U		551	AC	290	225	0.92		N	N		G-4235		2004
3-Sep-04		L	U		552	AC	276	205	0.98		N	N		G-4236		2004
3-Sep-04		L	U		553	AC	217	95	0.93		N	N				
3-Sep-04		L	U		554	AC	218	100	0.97		N	N				
3-Sep-04		L	U		555	AC	223	110	0.99		N	N				
3-Sep-04		L	U		556	AC	240	125	0.90		N	N				
3-Sep-04		L	U		557	AC	256	185	1.10		N	N	985120031657335	G-4237	2007	2004
3-Sep-04		L	U		558	AC	323	345	1.02		N	N		G-4238		2004
3-Sep-04		L	U		559	AC	302	265	0.96		N	N		G-4239		2004
3-Sep-04		L	U		560	AC	347	395	0.95		N	N		G-4240		2004
3-Sep-04		L	U		561	AC	337	420	1.10		N	N		G-4241		2004
3-Sep-04		L	U		562	AC	278	235	1.09		N	N		G-4242		2004
4-Sep-04		L	U		578	AC	730	4840	1.24		N	Y		W-2509		2002
4-Sep-04		L	U		579	AC	675	3045	0.99		N	Y		W-2322		2002
4-Sep-04		L	U		580	AC	638	2635	1.01		N	Y		W-2312		2002
4-Sep-04		L	U		588	AC	635	2840	1.11		N	Y		G-3368		2003
4-Sep-04		L	U		589	AC	382	525	0.94		N	N		G-4243		2004
4-Sep-04		L	U		590	AC	602	2205	1.01		N	N		G-4244		2004
4-Sep-04		L	U		591	AC	689	3220	0.98		N	Y		W-2319		2002
4-Sep-04		L	U		592	AC	354	445	1.00		N	N		G-4245		2004
4-Sep-04		L	U		593	AC	512	1460	1.09		N	Y		G-3411		2003
4-Sep-04		L	U		594	AC	308	-	-		N	N		G-4246		2004
6-Sep-04		U	U		595	AC	-	-	-		N	Y		G-3411		2003
7-Sep-04		L	U		604	LT	347	615	1.47		N	Y		G-4194		2004
7-Sep-04		L	U		605	LT	266	185	0.98		N	N		G-4249		2004
7-Sep-04		L	U		606	AC	307	295	1.02		N	N		G-4248		2004
7-Sep-04		L	U		607	AC	268	190	0.99		N	N		G-4250		2004
8-Sep-04		L	U		617	AC	263	170	0.93		N	N				
8-Sep-04		L	U		618	AC	335	340	0.90		N	N		G-4254		2004
8-Sep-04		L	U		619	LT	425	945	1.23		N	N		G-4255		2004
8-Sep-04		L	U		620	AC	423	750	0.99		N	N		G-4256		2004

Species Code: AC = Arctic char, LT = lake trout, LW = lake whitefish, RW = round whitefish, CISC = least cisco, SC = saffron cod

Box Location: L = Lower, U = Upper

Fish Direction: D = Downstream, U = Upstream

Y = yes, N = no

Dashes indicate not applicable

Appendix 8

Biological and Tagging Data from Boulder Garden Walk in Roberts Outflow, Doris North Project, 2012

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Appendix 8. Biological and Tagging Data from Boulder Garden Walk in Roberts Outflow, Doris North Project, 2012

Date (dd/mm/yy)	Time (24 hr clock)	Unique Sample No.	Species Code	Fork Length (mm)	Weight (g)	Condition (K)	Age (years)	Mortality (Y/N)	Recap (Y/N)	PIT Tag No.	Floy Tag No.	PIT Tag Year	Floy Tag Year	Comments
03-Aug-12	11:00	B001	AC	660	4,675	1.63	8	Y	Y	900026000149727	-	2012	-	PIC: 196; 197; 1726; 1733
04-Aug-12	-	-	AC	-	-	-	-	Y	-	-	-	-	-	5 fish observed caught by bears, maybe more/ bears stayed all day
12-Aug-12	11:00	B002	AC	409	-	-	6	Y	Y	900026000149746	-	2012	-	Rotten/died upstream of fish fence
13-Aug-12	11:00	B003	AC	740	5,400	1.33	14	Y	Y	965000000085176	Y-RL10-0402	2010	2010	Previously caught at lower fence moving upstream - Aug 12
13-Aug-12	11:00	B004	AC	829	8,000	1.40	15	Y	Y	900026000149740	-	2012	-	Previously caught at lower fence moving upstream - Aug 12
13-Aug-12	11:00	B005	AC	650	-	-	8	Y	Y	-	-	-	-	Recent pelvic clip/no head/no tags
13-Aug-12	11:00	B006	AC	705	4,800	1.37	12	Y	Y	900026000149735	Y-RL10-0830	2012	2010	Previously caught at lower fence moving upstream - Aug 12
13-Aug-12	11:00	B007	AC	764	6,100	1.37	13	Y	Y	965000000087125	Y-RL10-0120	2010	2010	Previously caught at lower fence moving upstream - Aug 12
13-Aug-12	11:00	B008	AC	736	5,200	1.30	20	Y	Y	965000000071418	Y-RL10-0111	2010	2010	Previously caught at lower fence moving upstream - Aug 12
13-Aug-12	11:00	B009	AC	824	7,200	1.29	17	Y	Y	985120031581259	Lost previous floy tag	2007	-	Both fins rays prev clipped/only one otolith
13-Aug-12	11:00	B010	AC	643	4,100	1.54	12	Y	Y	965000000078230	Y-RL10-0141	2010	2010	Just a few eggs

Species Code: AC = Arctic char

Y = yes, N = no

Dashes indicate not applicable