

**Stikine River Watershed  
Tahltan Lake Sockeye Salmon Smolt Enumeration and  
Sampling, 2019**

PSC NF-2019-I-20  
DFO CA2019-EF-030

Final Report  
March 2020

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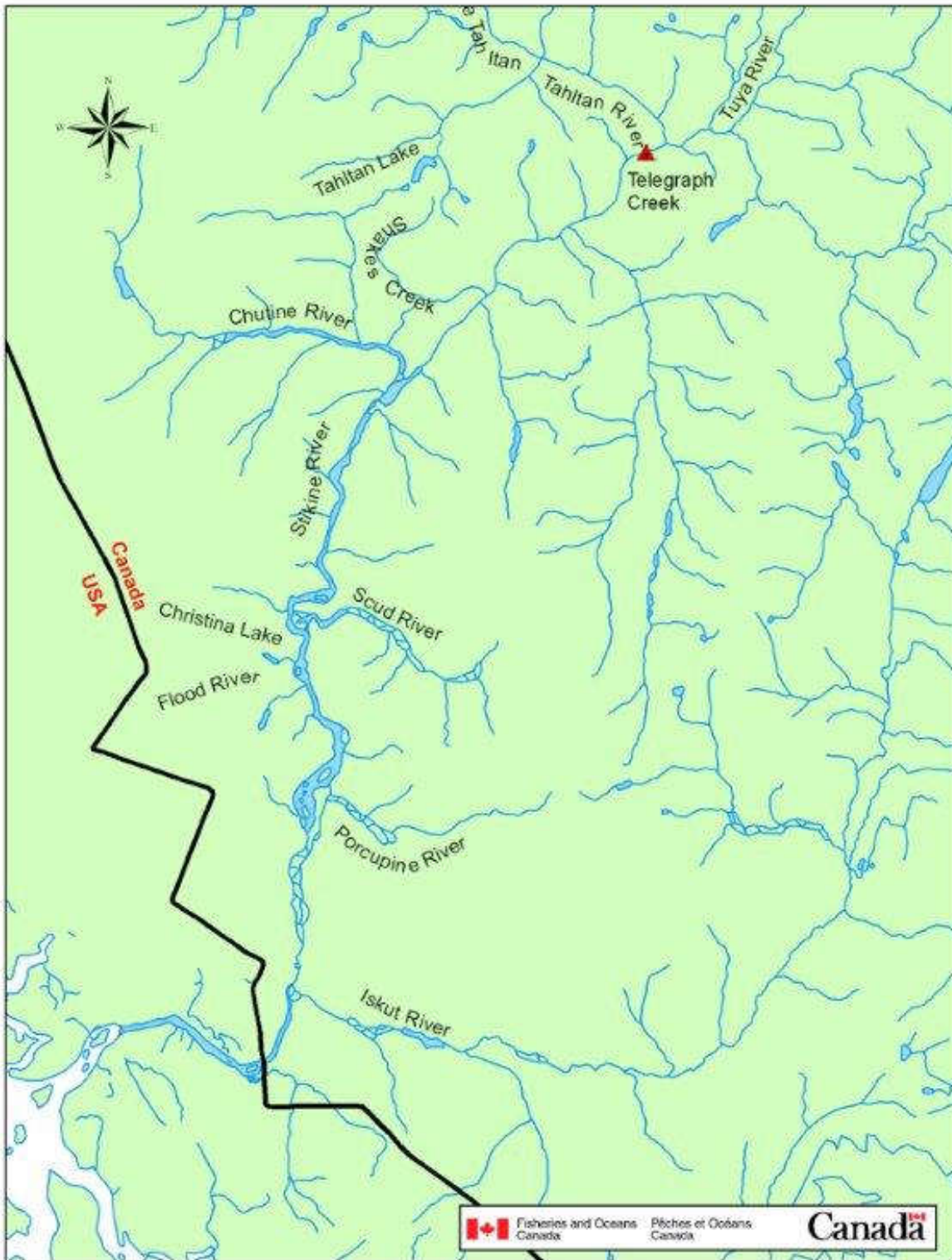


Figure 1 Map – Stikine River Drainage highlighting Tahltan Lake, Tahltan River, and Tuya River.

## EXECUTIVE SUMMARY

In 2019, an estimated total of 1,599,695 sockeye salmon smolts emigrated from Tahltan Lake. A total of 471 smolt were sampled (e.g., length, mass, age, origin). Otolith analysis suggested a wild to enhanced ratio of 30% wild and 70% enhanced. Approximately 96% of out-migrants were age 1+ and only 4% were age 2+. Enhanced fry to smolt survival was estimated at 42.9%. Furthermore, Tahltan Lake water temperatures were well above average and lake levels were well below average.

## **1.0 Introduction**

Tahltan Lake is located in the Stikine River drainage in northwestern British Columbia (Figure 1). The Tahltan Lake stock is the largest contributor of sockeye salmon to the Stikine River drainage, and comprises the largest component of Stikine River commercial and Indigenous food fisheries. Sockeye enhancement activities have been conducted annually at Tahltan Lake since 1989, and enhanced fish (marked) contribute significantly to the stock. As outlined in the Pacific Salmon Treaty (2019) the objective is to maintain a 1:1 wild to enhanced ratio.

Fisheries & Oceans Canada (DFO) has conducted this sockeye smolt enumeration project at Tahltan Lake annually since 1984. The project is based out of DFO's Tahltan Lake camp, and typically operates from the first week in May to mid-June. The field crew is typically comprised of one DFO Aquatic Science Technician and two Tahltan First Nation (TFN) Fisheries Technicians.

## **2.0 Objectives**

The objectives of the project were:

- To enumerate Tahltan Lake sockeye salmon smolts during lake out-migration using a weir located downstream from the outlet of Tahltan Lake through May and June;
- To collect age (scales), to collect otoliths (heads) for stock identification (enhanced vs. non enhanced) and to collect size information (fork length & weight) from a subsample of smolts in proportion to the run;

Tahltan Lake smolt counts will be used to forecast future adult sockeye salmon production and will guide management abundance-based management actions in subsequent years.

Data gathered through this project will be used to determine appropriate fry stocking levels at Tahltan Lake as a result of the egg collection and incubation activities designed to boost adult production in the Stikine River through the joint Transboundary sockeye enhancement program.

## **3.0 Methods**

Sockeye smolts emigrating from Tahltan Lake depart to the Pacific Ocean via Johnny Tashoots Creek. All smolts leaving the lake are directed by a weir into two inclined-plane traps located approximately 25 meters downstream of the lake outlet. The weir is comprised small diameter

vexar mesh affixed to wood frame panels through which smolts cannot pass. The weir is situated in a downstream v pattern from both left and right bank leading into the traps.

The traps are operated and monitored 24 hours per day once installed. Smolts are funnelled into the traps as they are out-migrating, and are captured in the holding pen. Smolts are dip netted from the trap and counted individually when migration is slow, but once the densities of outmigrating sockeye smolts increases, they are counted using a volumetric water displacement method. This method utilizes a calibrated round bucket filled with water to a defined level. Smolts are added to the bucket until the volume reaches a second defined level which yields an estimated average count. The average number of smolts equal to the water displacement is calculated daily based on the average fork length of thirty smolts randomly selected from the sample. The daily number of smolts per bucket is determined based on a previously developed correlation between smolt size and water displacement at Tahltan Lake. The number of outmigrating smolts is estimated each hour on the hour, and totalled for a twenty-four hour period.

A random sub-sample of sockeye smolts are collected throughout each day and placed into a holding pen beside the traps for biological sampling. The number of smolts sampled per day is proportional to the daily run size with a target of four hundred samples over the project representative of the total run. Biological sampling includes: fork length (to the nearest millimeter), mass (0.1 g), age determination (two scale smears per fish), and collection of otoliths (heads preserved and otoliths are later extracted to determine wild/ enhanced ratios and fry to smolt survival). Age and origin of the sub-sampled fish are expanded to the estimate of total out-migration. Scale samples are analyzed at DFO's Schlerochonology Lab at Pacific Biological Station (Nanaimo, B.C.). The head (otolith) samples are analyzed in the DFO Whitehorse lab to assess wild and enhanced contributions. The otoliths of enhanced fish are identified through a unique growth ring (mark) laid down during the incubation period at Snettisham Hatchery.

Water temperature and water level are recorded daily every four hours at the top of the hour (0400h, 0800h, 1200h, 1600h, 2000h, and 2400h) using a hand held alcohol thermometer. Water level is recorded using a staff gauge permanently mounted to the water control structure.

Sampling for chlorophyll, phosphorus, secchi depth, and zooplankton during the project is also conducted at Tahltan Lake. These samples have been forwarded to DFO's Salmonid Enhancement Program and results will be presented elsewhere.

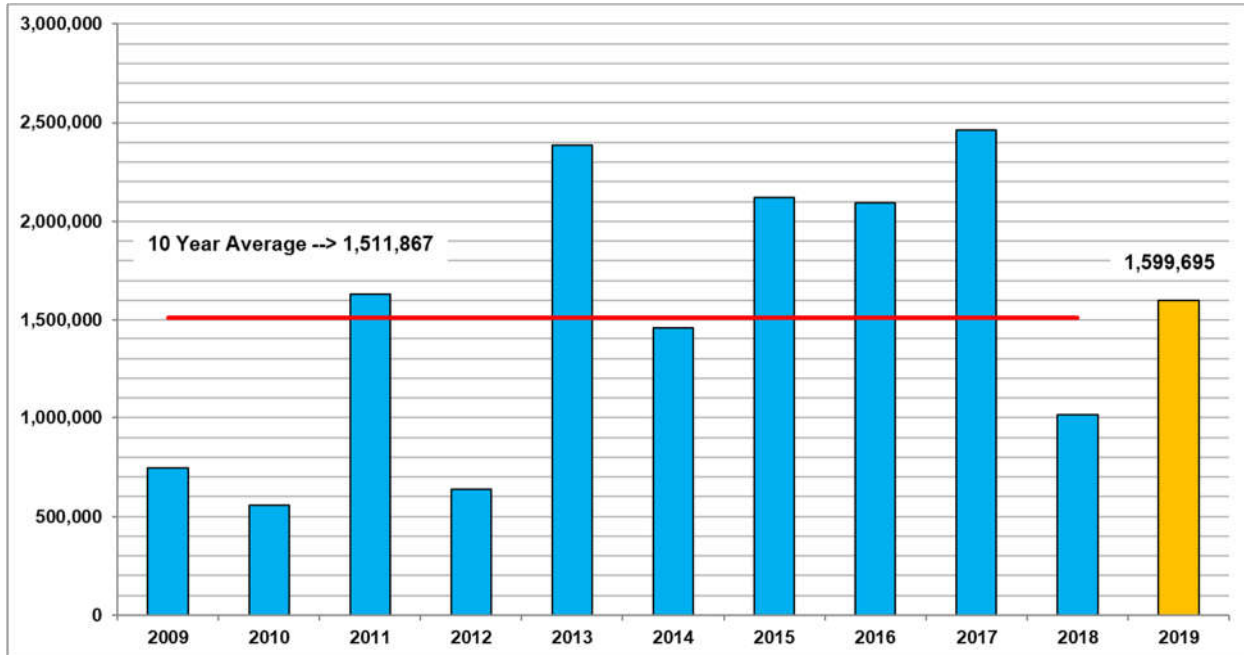
All reference to the 10 year average in this report refers to the period 2009 to 2018 unless otherwise noted.

## 4.0 Results

The weir and traps were installed May 4, and were removed on June 12, at 1200 hours.

### Counts:

The estimated total smolt count for 2019 was 1,599,695 fish; this is 5% above the ten year average count of 1,511,867 (Figure 2). Detailed daily counts can be found in Appendix 1.



**Figure 2** The 2019 Tahltan Lake sockeye smolt outmigration count compared to the 10 year average.



## Run Timing:

Timing of the sockeye smolt out-migration was atypical in 2019. The onset of out-migration appeared to be delayed and a large pulse of out-migrating smolts occurred on May 22. A second smaller outmigration pulse occurred on May 25 (Figure 3). On average, although out-migration typically peaks around May 24, it is distributed across the project, rather than occurring in the large pulses observed in 2019. The majority of 2019 smolt out-migration occurred between May 22 and May 17.

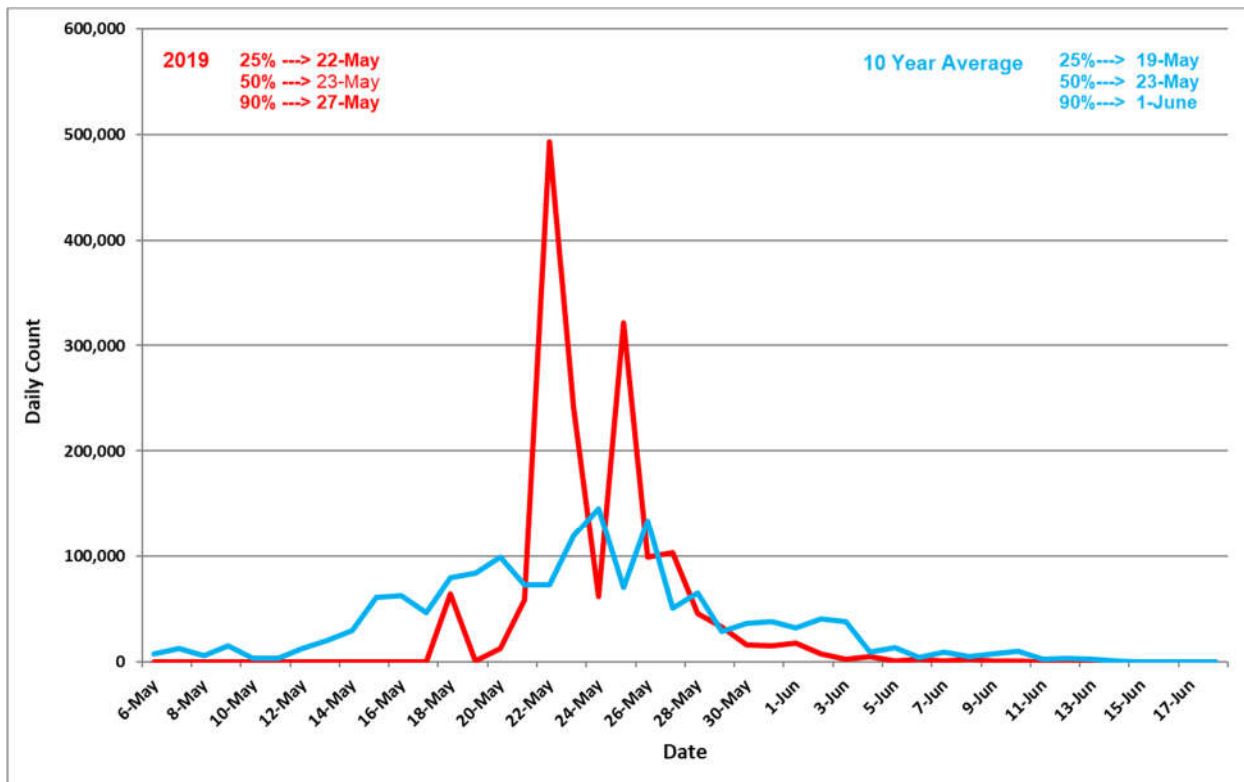


Figure 3 Daily emigration of Tahltan lake Sockeye smolt in 2019 compared to the 10 year average.

## Water Temperature:

The ice went out on Tahltan Lake on May 7, 11 days earlier than average. Daily average water temperatures for Tahltan Lake throughout the project were between 1 and 5°C above average for almost the entire project (Figure 4; Appendix 2); in early June, water temperatures were more similar to the 10 year average.

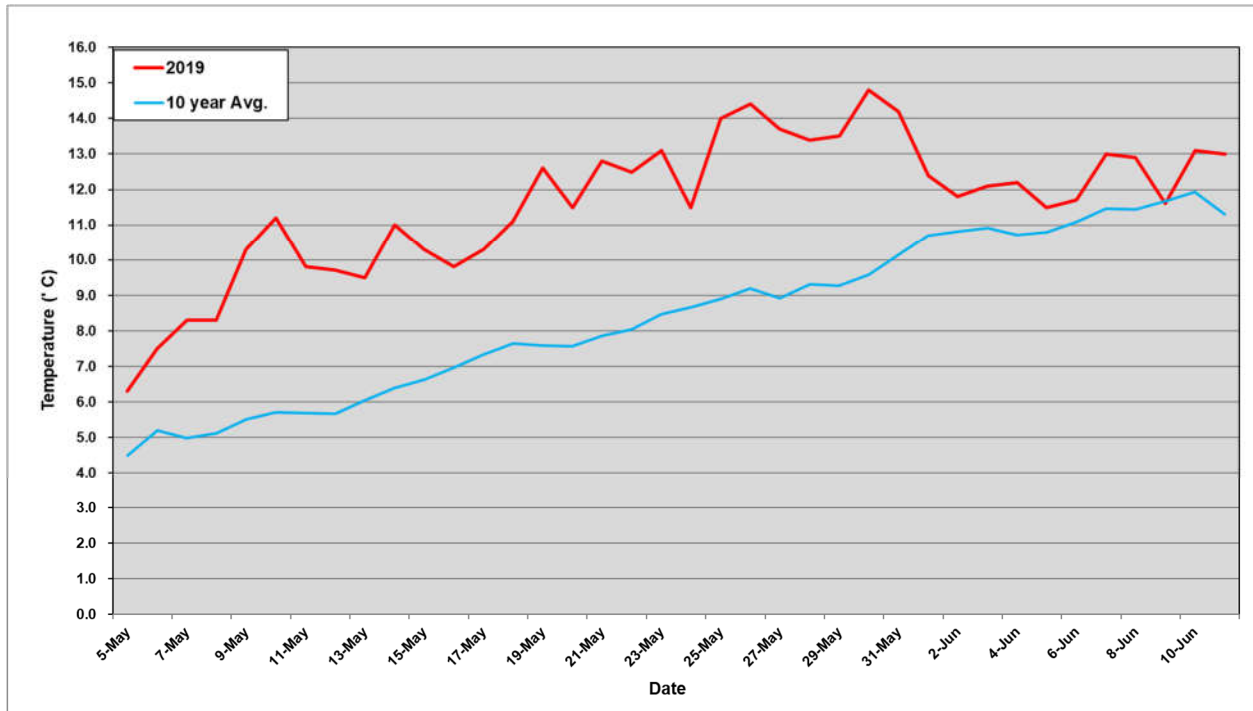


Figure 4 Tahltan Lake average daily water temperatures (°C) in 2019 compared to the 10 year average.

## Water Level:

Tahltan Lake water levels were much lower in 2019 than average (Figure 5). In early May, water level was about 0.5 ft below average and did not rise as anticipated over the duration of the project. Near the end of the project, water levels were about 2 ft lower than average. The below average water levels are likely partially attributable to the lower than average snowpack conditions within the region annually over the past several years. In 2019, snowpack conditions were estimated at 61% of normal (<https://www2.gov.bc.ca/assets/gov/environment/air-land-water/water/river-forecast/2019.pdf>).

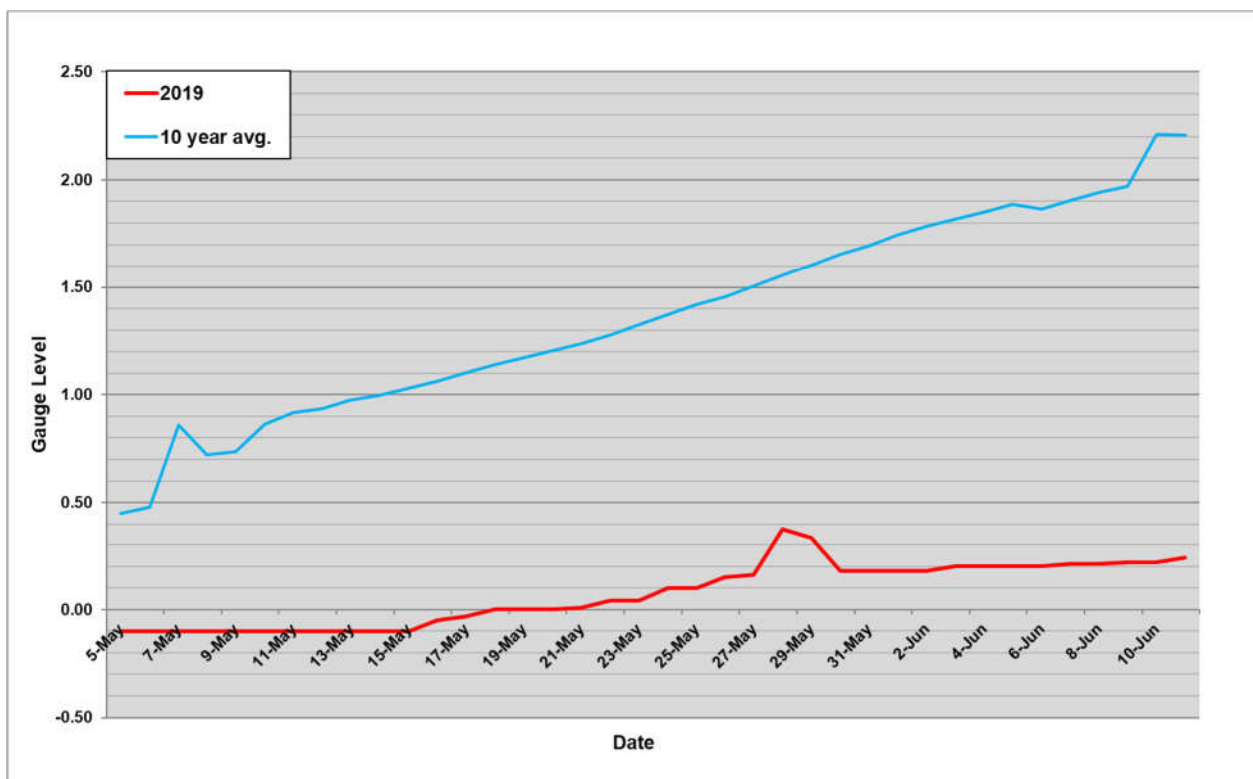


Figure 5. Tahltan Lake average daily water level (tenths of feet) in 2019 compared to the 10 year average.

## Biological Sampling:

A total of 471 biological samples were collected in 2019 in proportion to the outmigration. Smolt origin and aging analysis revealed that 30 % of out-migrating smolts were of wild origin, and 70 % were enhanced. This differed from the target 1:1 ratio of wild to enhanced smolts. Most of the out-migrating smolts were 1+ (96%) and only 4% were 2+ smolts (Table 1). No other age classes were observed.

**Table 1. Estimated number, age, and origin of emigrating Tahltan Lake sockeye smolts by statistical week in 2019.**

Statistical Week	Week Ending	# Smolts									TOTALS	
		age 1			age 2			age 3				age
		(com'b)	(wild)	(en'hd)	(com'b)	(wild)	(en'hd)	(com'b)	(wild)	(en'hd)		4+
19	12-May	0	0	0	0	0	0	0	0	0	0	0
20	19-May	57,543	37,234	20,309	6,770	6,770	0	0	0	0	0	64,313
21	26-May	1,138,474	328,370	810,104	49,679	45,524	4,154	0	0	0	0	1,188,153
22	2-Jun	318,718	48,108	270,609	9,020	9,020	0	0	0	0	0	327,738
23	9-Jun	18,218	3,813	14,405	847	424	424	0	0	0	0	19,065
24	16-Jun	426	77	349	0	0	0	0	0	0	0	426
25	23-Jun	0	0	0	0	0	0	0	0	0	0	0
26	30-Jun	0	0	0	0	0	0	0	0	0	0	0
Totals		1,533,379	417,602	1,115,776	66,316	61,738	4,578	0	0	0	0	1,599,695
		95.9%	26.1%	69.7%	4.1%	3.9%	0.3%	0.0%	0.0%	0.0%	0.0%	

Averaged across statistical weeks, age 1+ enhanced smolts (6.89 g) weighed slightly more than wild age 1+ smolts (6.40 g), and age 2+ wild smolts (10.51 g) weighed slightly more than age 2+ enhanced smolts (10.06 g) (Table 2). Across statistical weeks, age 1+ wild smolts were, on average, 1.8 g heavier at the end of the project compared to the beginning of the project, and age 1+ enhanced smolts were only 0.6 g heavier at the end of the project compared to the beginning of the project.

**Table 2 Average mass (g) of emigrating Tahltan Lake sockeye smolts by age and origin across statistical weeks in 2019.**

Statistical Week	Week Ending	Average Wt. (g)										Average
		age 1			age 2			age 3			age	
		(com'b)	(wild)	(en'hd)	(com'b)	(wild)	(en'hd)	(com'b)	(wild)	(en'hd)	4+	
19	12-May	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
20	19-May	6.39	6.15	6.83	12.90	12.90	0.00	0.00	0.00	0.00	0.00	4.82
21	26-May	6.65	6.36	6.77	9.42	9.39	9.70	0.00	0.00	0.00	0.00	4.02
22	2-Jun	7.15	6.75	7.22	14.47	14.47	0.00	0.00	0.00	0.00	0.00	5.40
23	9-Jun	7.21	7.13	7.23	11.25	8.90	13.60	0.00	0.00	0.00	0.00	4.61
24	16-Jun	7.50	7.95	7.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.88
25	23-Jun	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
26	30-Jun	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Total Avg. Wt.		6.75	6.40	6.89	10.48	10.51	10.06	0.00	0.00	0.00	0.00	

## **Survival**

An estimated 1,115,776 (all age 1+) enhanced smolts emigrated from Tahltan Lake in 2019 (Table 1). Using the 2018 release (2017 brood year) of 2,600,000 enhanced fry, the enhanced fry to smolt survival is 42.9%.

## **5.0 Budget Summary**

The Northern Endowment Fund awarded \$67,169 to DFO for completion of this project. The 90% advance of \$60,452 was fully expended (Appendix 5). DFO does not require the 10% holdback.

## **6.0 Conclusions**

The project was completed within the proposed timeframe and the stated objectives were met. There were 1,599,695 sockeye salmon smolts enumerated during the out-migration from Tahltan Lake in 2019. Of these, 96% of the smolts were age 1+ and 4% of the smolts were age 2+. Furthermore, 70% of the smolts were enhanced (age 1+) and 30 % were wild (age 1+). The enhanced fry to smolt survival was estimated at 42.9%.

The estimated Tahltan Lake smolt count will be used to forecast future adult sockeye salmon production and will guide abundance-based management actions in subsequent years. The smolt count and wild/ enhanced ratios will be used to inform fry stocking densities at Tahltan Lake through the egg collection and incubation activities designed to boost adult sockeye production in the Stikine River through the joint Transboundary sockeye enhancement program.

## **7.0 Acknowledgements**

The Tahltan Lake Sockeye Smolt Enumeration and Sampling project is a collaborative project between Tahltan and Iskut First Nation (TIFN) and DFO. TIFN staff involved in the project included Regan Asp, Micheal Nole, Sheldon Dennis, and Fabian Vance under the direction of Cheri Frocklage (Tahltan Fisheries Co-ordinator). DFO staff involved in the project included Adam Brennan under the direction of Johnny Sembsmoen and Jody Mackenzie-Grieve.

Air support was provided by Tundra Helicopters Ltd. And B.C. Yukon Air Service Ltd.

## 8.0 Appendices

### Appendix 1 - Tahltan Lake sockeye smolt daily counts, 2019.

Date	Stat. Week	Daily Count	Cumulative Count	Weekly Count	Daily Prop.	Cum. Prop.	Weekly Prop.
1-May	18	0	0		0.000	0.000	
2-May	18	0	0		0.000	0.000	
3-May	18	0	0		0.000	0.000	
4-May	18	0	0	0	0.000	0.000	0.000
5-May	19	0	0		0.000	0.000	
6-May	19	0	0		0.000	0.000	
7-May	19	0	0		0.000	0.000	
8-May	19	0	0		0.000	0.000	
9-May	19	0	0		0.000	0.000	
10-May	19	0	0		0.000	0.000	
11-May	19	0	0	0	0.000	0.000	0.000
12-May	20	0	0		0.000	0.000	
13-May	20	0	0		0.000	0.000	
14-May	20	40	40		0.000	0.000	
15-May	20	18	58		0.000	0.000	
16-May	20	48	106		0.000	0.000	
17-May	20	10	116		0.000	0.000	
18-May	20	64,197	64,313	64,313	0.040	0.040	0.040
19-May	21	195	64,508		0.000	0.040	
20-May	21	12,332	76,840		0.008	0.048	
21-May	21	58,414	135,254		0.037	0.085	
22-May	21	493,676	628,930		0.309	0.393	
23-May	21	240,875	869,805		0.151	0.544	
24-May	21	61,476	931,281		0.038	0.582	
25-May	21	321,185	1,252,466	1,188,153	0.201	0.783	0.743
26-May	22	98,747	1,351,213		0.062	0.845	
27-May	22	102,747	1,453,960		0.064	0.909	
28-May	22	45,077	1,499,037		0.028	0.937	
29-May	22	32,326	1,531,363		0.020	0.957	
30-May	22	15,605	1,546,968		0.010	0.967	
31-May	22	15,359	1,562,327		0.010	0.977	
1-Jun	22	17,877	1,580,204	327,738	0.011	0.988	0.205
2-Jun	23	6,919	1,587,123		0.004	0.992	
3-Jun	23	2,447	1,589,570		0.002	0.994	
4-Jun	23	4,386	1,593,956		0.003	0.996	
5-Jun	23	951	1,594,907		0.001	0.997	
6-Jun	23	2,030	1,596,937		0.001	0.998	
7-Jun	23	316	1,597,253		0.000	0.998	
8-Jun	23	2,016	1,599,269	19,065	0.001	1.000	0.012
9-Jun	24	183	1,599,452		0.000	1.000	
10-Jun	24	149	1,599,601		0.000	1.000	
11-Jun	24	92	1,599,693		0.000	1.000	
12-Jun	24	2	1,599,695		0.000	1.000	
13-Jun	24	0	1,599,695		0.000	1.000	
14-Jun	24	0	1,599,695		0.000	1.000	
15-Jun	24	0	1,599,695	426	0.000	1.000	0.000
16-Jun	25	0	1,599,695		0.000	1.000	
17-Jun	25	0	1,599,695		0.000	1.000	
18-Jun	25	0	1,599,695	0	0.000	1.000	0.000
		1,599,695		1,599,695	1.000		1.000

	2019	Date
25%	399,924	22-May
50%	799,848	23-May
90%	1,439,726	27-May
Peak Day	493,676	22-May

**Appendix 2 - Tahltan Lake average daily water temperatures (Celsius) – 2019 vs. 10 year average.**

<b>Date</b>	<b>2019</b>	<b>10 year avg.</b>	<b>(+/-)</b>
<b>4-May</b>	6.0		
<b>5-May</b>	6.3	4.5	1.8
<b>6-May</b>	7.5	5.2	2.3
<b>7-May</b>	8.3	5.0	3.3
<b>8-May</b>	8.3	5.1	3.2
<b>9-May</b>	10.3	5.5	4.8
<b>10-May</b>	11.2	5.7	5.5
<b>11-May</b>	9.8	5.7	4.1
<b>12-May</b>	9.7	5.7	4.0
<b>13-May</b>	9.5	6.0	3.5
<b>14-May</b>	11.0	6.4	4.6
<b>15-May</b>	10.3	6.6	3.7
<b>16-May</b>	9.8	7.0	2.8
<b>17-May</b>	10.3	7.3	3.0
<b>18-May</b>	11.1	7.7	3.4
<b>19-May</b>	12.6	7.6	5.0
<b>20-May</b>	11.5	7.6	3.9
<b>21-May</b>	12.8	7.9	4.9
<b>22-May</b>	12.5	8.0	4.5
<b>23-May</b>	13.1	8.5	4.6
<b>24-May</b>	11.5	8.7	2.8
<b>25-May</b>	14.0	8.9	5.1
<b>26-May</b>	14.4	9.2	5.2
<b>27-May</b>	13.7	8.9	4.8
<b>28-May</b>	13.4	9.3	4.1
<b>29-May</b>	13.5	9.3	4.2
<b>30-May</b>	14.8	9.6	5.2
<b>31-May</b>	14.2	10.2	4.0
<b>1-Jun</b>	12.4	10.7	1.7
<b>2-Jun</b>	11.8	10.8	1.0
<b>3-Jun</b>	12.1	10.9	1.2
<b>4-Jun</b>	12.2	10.7	1.5
<b>5-Jun</b>	11.5	10.8	0.7
<b>6-Jun</b>	11.7	11.1	0.6
<b>7-Jun</b>	13.0	11.5	1.5
<b>8-Jun</b>	12.9	11.4	1.5
<b>9-Jun</b>	11.6	11.7	-0.1
<b>10-Jun</b>	13.1	11.9	1.2
<b>11-Jun</b>	13.0	11.3	1.7
<b>12-Jun</b>	11.8	11.9	-0.1

### Appendix 3 - Tahltan Lake sockeye smolt sample data, 2019.

Vial #	Date	Stat. Wk.	Bk. #	Sc. #	Age (GR)	Age (EU)	WT	FL	K-Factor	Box #	Otolith #	Box Cell #	Marked Y/N	Thermal Mark	Brood Year
1	14-May	20	20001	1	22	10	4.5	75	1.07	1	1	1-1	N		
2	15-May	20	20001	2	22	10	5.5	81	1.03	1	2	1-2	N		
3	16-May	20	20001	3	22	10	5.7	81	1.07	1	3	1-3	N		
4	17-May	20	20001	4	22	10	6.1	86	0.96	1	4	1-4	Y	Tahltan Lake	2017
5	18-May	20	20001	5	33	20	10.1	104	0.90	1	5	1-5	N		
6	18-May	20	20001	6	22	10	7.8	91	1.04	1	6	1-6	Y	Tahltan Lake	2017
7	18-May	20	20001	7	22	10	7.0	92	0.90	1	7	1-7	Y	Tahltan Lake	2017
8	18-May	20	20001	8	22	10	6.5	87	0.99	1	8	1-8	N		
9	18-May	20	20001	9	33	20	15.7	119	0.93	1	9	1-9	N		
10	18-May	20	20001	10	22	10	7.2	91	0.96	1	10	1-10	Y	Tahltan Lake	2017
11	18-May	20	20001	11	22	10	5.6	83	0.98	1	11	1-11	N		
12	18-May	20	20001	12	22	10	7.6	92	0.98	1	12	1-12	N		
13	18-May	20	20001	13	22	10	6.6	89	0.94	1	13	1-13	N		
14	18-May	20	20001	14	22	10	5.4	84	0.91	1	14	1-14	N		
15	18-May	20	20001	15	22	10	4.9	90	0.67	1	15	1-15	N		
16	18-May	20	20001	16	22	10	7.1	82	1.29	1	16	1-16	N		
17	18-May	20	20001	17	22	10	6.5	87	0.99	1	17	1-17	Y	Tahltan Lake	2017
18	18-May	20	20001	18	22	10	8.2	96	0.93	1	18	1-18	N		
19	18-May	20	20001	19	22	10	6.4	88	0.94	1	19	1-19	Y	Tahltan Lake	2017
20	19-May	21	20001	20	22	10	5.3	86	0.83	1	20	1-20	N		
21	20-May	21	20001	21	22	10	8.4	97	0.92	1	21	1-21	N		
22	20-May	21	20001	22	22	10	7.2	93	0.90	1	22	1-22	Y	Tahltan Lake	2017
23	20-May	21	20001	23	22	10	5.0	83	0.87	1	23	1-23	N		
24	20-May	21	20001	24	22	10	5.4	83	0.94	1	24	1-24	N		
25	20-May	21	20001	25	22	10	8.7	98	0.92	1	25	1-25	N		
26	20-May	21	20002	1	22	10	6.9	89	0.98	1	26	1-26	Y	Tahltan Lake	2017
27	20-May	21	20002	2	22	10	6.7	90	0.92	1	27	1-27	N		
28	20-May	21	20002	3	22	10	6.6	91	0.88	1	28	1-28	N		
29	20-May	21	20002	4	22	10	5.7	81	1.07	1	29	1-29	N		
30	20-May	21	20002	5	22	10	7.7	94	0.93	1	30	1-30	Y	Tahltan Lake	2017
31	21-May	21	20002	6	22	10	6.3	89	0.89	1	31	1-31	Y	Tahltan Lake	2017
32	21-May	21	20002	7	22	10	7.6	93	0.94	1	32	1-32	N		
33	21-May	21	20002	8	22	10	7.3	95	0.85	1	33	1-33	N		
34	21-May	21	20002	9	22	10	5.0	81	0.94	1	34	1-34	N		
35	21-May	21	20002	10	33	20	10.1	104	0.90	1	35	1-35	N		
36	21-May	21	20002	11	22	10	4.3	78	0.91	1	36	1-36	N		
37	21-May	21	20002	12	22	10	7.2	91	0.96	1	37	1-37	Y	Tahltan Lake	2017
38	21-May	21	20002	13	22	10	7.3	95	0.85	1	38	1-38	Y	Tahltan Lake	2017
39	21-May	21	20002	14	22	10	6.8	90	0.93	1	39	1-39	Y	Tahltan Lake	2017
40	21-May	21	20002	15	22	10	6.3	86	0.99	1	40	1-40	Y	Tahltan Lake	2017
41	21-May	21	20002	16	22	10	7.0	90	0.96	1	41	1-41	Y	Tahltan Lake	2017
42	21-May	21	20002	17	22	10	6.9	90	0.95	1	42	1-42	Y	Tahltan Lake	2017
43	21-May	21	20002	18	22	10	5.6	84	0.94	1	43	1-43	Y	Tahltan Lake	2017
44	21-May	21	20002	19	22	10	5.1	82	0.92	1	44	1-44	Y	Tahltan Lake	2017
45	22-May	21	20002	20	22	10	6.2	89	0.88	1	45	1-45	N		
46	22-May	21	20002	21	22	10	5.8	86	0.91	1	46	1-46	N		
47	22-May	21	20002	22	22	10	5.5	85	0.90	1	47	1-47	N		
48	22-May	21	20002	23	22	10	6.5	89	0.92	1	48	1-48	N		
49	22-May	21	20002	24	22	10	7.9	94	0.95	1	49	1-49	Y	Tahltan Lake	2017
50	22-May	21	20002	25	22	10	6.3	86	0.99	1	50	1-50	Y	Tahltan Lake	2017
51	22-May	21	20003	1	22	10	6.2	87	0.94	1	51	1-51	Y	Tahltan Lake	2017
52	22-May	21	20003	2	22	10	7.6	93	0.94	1	52	1-52	N		
53	22-May	21	20003	3	22	10	5.5	84	0.93	1	53	1-53	Y	Tahltan Lake	2017
54	22-May	21	20003	4	22	10	8.8	97	0.96	1	54	1-54	Y	Tahltan Lake	2017
55	22-May	21	20003	5	22	10	5.4	82	0.98	1	55	1-55	Y	Tahltan Lake	2017
56	22-May	21	20003	6	22	10	6.4	90	0.88	1	56	1-56	N		
57	22-May	21	20003	7	22	10	6.6	91	0.88	1	57	1-57	Y	Tahltan Lake	2017
58	22-May	21	20003	8	22	10	6.5	88	0.95	1	58	1-58	Y	Tahltan Lake	2017
59	22-May	21	20003	9	22	10	6.3	89	0.89	1	59	1-59	N		
60	22-May	21	20003	10	22	10	7.1	94	0.85	1	60	1-60	Y	Tahltan Lake	2017
61	22-May	21	20003	11	33	20	7.3	95	0.85	1	61	1-61	N		
62	22-May	21	20003	12	22	10	5.8	86	0.91	1	62	1-62	N		
63	22-May	21	20003	13	22	10	10.6	107	0.87	1	63	1-63	N		
64	22-May	21	20003	14	22	10	6.8	92	0.87	1	64	1-64	Y	Tahltan Lake	2017
65	22-May	21	20003	15	22	10	6.4	88	0.94	1	65	1-65	Y	Tahltan Lake	2017
66	22-May	21	20003	16	22	10	6.6	90	0.91	1	66	1-66	Y	Tahltan Lake	2017
67	22-May	21	20003	17	22	10	6.8	91	0.90	1	67	1-67	Y	Tahltan Lake	2017
68	22-May	21	20003	18	22	10	6.2	88	0.91	1	68	1-68	Y	Tahltan Lake	2017
69	22-May	21	20003	19	22	10	8.9	99	0.92	1	69	1-69	Y	Tahltan Lake	2017
70	22-May	21	20003	20	22	10	9.2	99	0.95	1	70	1-70	Y	Tahltan Lake	2017



71	22-May	21	20003	21	22	10	6.3	86	0.99	1	71	1-71	Y	Tahitan Lake	2017
72	22-May	21	20003	22	22	10	7.1	90	0.97	1	72	1-72	Y	Tahitan Lake	2017
73	22-May	21	20003	23	22	10	5.1	81	0.96	1	73	1-73	Y	Tahitan Lake	2017
74	22-May	21	20003	24	22	10	6.1	86	0.96	1	74	1-74	Y	Tahitan Lake	2017
75	22-May	21	20003	25	22	10	5.6	83	0.98	1	75	1-75	Y	Tahitan Lake	2017
76	22-May	21	20004	1	22	10	5.8	85	0.94	1	76	1-76	Y	Tahitan Lake	2017
77	22-May	21	20004	2	22	10	5.6	84	0.94	1	77	1-77	Y	Tahitan Lake	2017
78	22-May	21	20004	3	22	10	7.2	91	0.96	1	78	1-78	Y	Tahitan Lake	2017
79	22-May	21	20004	4	22	10	5.8	84	0.98	1	79	1-79	Y	Tahitan Lake	2017
80	22-May	21	20004	5	22	10	7.5	93	0.93	1	80	1-80	Y	Tahitan Lake	2017
81	22-May	21	20004	6	33	20	7.5	94	0.90	1	81	1-81	N		
82	22-May	21	20004	7	22	10	6.4	87	0.97	1	82	1-82	Y	Tahitan Lake	2017
83	22-May	21	20004	8	22	10	7.8	92	1.00	1	83	1-83	Y	Tahitan Lake	2017
84	22-May	21	20004	9	22	10	3.9	73	1.00	1	84	1-84	N		
85	22-May	21	20004	10	22	10	5.4	84	0.91	1	85	1-85	Y	Tahitan Lake	2017
86	22-May	21	20004	11	22	10	6.3	87	0.96	1	86	1-86	Y	Tahitan Lake	2017
87	22-May	21	20004	12	22	10	7.9	95	0.92	1	87	1-87	Y	Tahitan Lake	2017
88	22-May	21	20004	13	22	10	5.3	84	0.89	1	88	1-88	N		
89	22-May	21	20004	14	22	10	7.7	93	0.96	1	89	1-89	Y	Tahitan Lake	2017
90	22-May	21	20004	15	22	10	6.5	88	0.95	1	90	1-90	N		
91	22-May	21	20004	16	22	10	8.2	95	0.96	1	91	1-91	Y	Tahitan Lake	2017
92	22-May	21	20004	17	22	10	7.2	92	0.92	1	92	1-92	Y	Tahitan Lake	2017
93	22-May	21	20004	18	22	10	9.5	100	0.95	1	93	1-93	Y	Tahitan Lake	2017
94	22-May	21	20004	19	22	10	7.8	94	0.94	1	94	1-94	Y	Tahitan Lake	2017
95	22-May	21	20004	20	22	10	7.0	91	0.93	1	95	1-95	N		
96	22-May	21	20004	21	33	20	9.7	103	0.89	1	96	1-96	Y	Tahitan Lake	2016
97	22-May	21	20004	22	22	10	6.5	89	0.92	1	97	1-97	N		
98	22-May	21	20004	23	22	10	7.0	93	0.87	1	98	1-98	N		
99	22-May	21	20004	24	22	10	6.2	88	0.91	1	99	1-99	No Sample		
100	22-May	21	20004	25	22	10	6.4	89	0.91	1	100	1-100	Y	Tahitan Lake	2017
101	22-May	21	20005	1	22	10	6.6	87	1.00	2	1	2-1	Y	Tahitan Lake	2017
102	22-May	21	20005	2	22	10	6.7	88	0.98	2	2	2-2	Y	Tahitan Lake	2017
103	22-May	21	20005	3	22	10	4.7	78	0.99	2	3	2-3	Y	Tahitan Lake	2017
104	22-May	21	20005	4	22	10	6.1	89	0.87	2	4	2-4	N		
105	22-May	21	20005	5	22	10	6.3	87	0.96	2	5	2-5	N		
106	22-May	21	20005	6	22	10	7.3	90	1.00	2	6	2-6	Y	Tahitan Lake	2017
107	22-May	21	20005	7	22	10	6.2	91	0.82	2	7	2-7	Y	Tahitan Lake	2017
108	22-May	21	20005	8	22	10	7.0	91	0.93	2	8	2-8	Y	Tahitan Lake	2017
109	22-May	21	20005	9	22	10	7.9	93	0.98	2	9	2-9	Y	Tahitan Lake	2017
110	22-May	21	20005	10	22	10	9.4	100	0.94	2	10	2-10	Y	Tahitan Lake	2017
111	22-May	21	20005	11	22	10	5.2	85	0.85	2	11	2-11	N		
112	22-May	21	20005	12	22	10	5.2	82	0.94	2	12	2-12	N		
113	22-May	21	20005	13	22	10	5.1	81	0.96	2	13	2-13	N		
114	22-May	21	20005	14	22	10	6.7	90	0.92	2	14	2-14	N		
115	22-May	21	20005	15	33	20	11.4	106	0.96	2	15	2-15	N		
116	22-May	21	20005	16	22	10	6.4	87	0.97	2	16	2-16	Y	Tahitan Lake	2017
117	22-May	21	20005	17	22	10	7.2	84	1.21	2	17	2-17	Y	Tahitan Lake	2017
118	22-May	21	20005	18	22	10	7.4	92	0.95	2	18	2-18	Y	Tahitan Lake	2017
119	22-May	21	20005	19	22	10	6.4	88	0.94	2	19	2-19	Y	Tahitan Lake	2017
120	22-May	21	20005	20	22	10	6.3	88	0.92	2	20	2-20	N		
121	22-May	21	20005	21	22	10	6.4	90	0.88	2	21	2-21	N		
122	22-May	21	20005	22	22	10	8.3	95	0.97	2	22	2-22	Y	Tahitan Lake	2017
123	22-May	21	20005	23	22	10	4.9	82	0.89	2	23	2-23	Y	Tahitan Lake	2017
124	22-May	21	20005	24	22	10	6.0	89	0.85	2	24	2-24	Y	Tahitan Lake	2017
125	22-May	21	20005	25	22	10	6.4	90	0.88	2	25	2-25	Y	Tahitan Lake	2017
126	22-May	21	20006	1	22	10	7.0	90	0.96	2	26	2-26	Y	Tahitan Lake	2017
127	22-May	21	20006	2	22	10	7.3	92	0.94	2	27	2-27	Y	Tahitan Lake	2017
128	22-May	21	20006	3	22	10	5.3	84	0.89	2	28	2-28	Y	Tahitan Lake	2017
129	22-May	21	20006	4	22	10	7.9	95	0.92	2	29	2-29	Y	Tahitan Lake	2017
130	22-May	21	20006	5	22	10	6.3	89	0.89	2	30	2-30	Y	Tahitan Lake	2017
131	22-May	21	20006	6	22	10	7.3	93	0.91	2	31	2-31	Y	Tahitan Lake	2017
132	22-May	21	20006	7	22	10	4.0	75	0.95	2	32	2-32	N		
133	22-May	21	20006	8	22	10	6.5	87	0.99	2	33	2-33	Y	Tahitan Lake	2017
134	22-May	21	20006	9	22	10	6.2	87	0.94	2	34	2-34	Y	Tahitan Lake	2017
135	22-May	21	20006	10	22	10	5.7	83	1.00	2	35	2-35	Y	Tahitan Lake	2017
136	22-May	21	20006	11	22	10	4.4	80	0.86	2	36	2-36	N		
137	22-May	21	20006	12	33	20	8.0	96	0.90	2	37	2-37	N		
138	22-May	21	20006	13	22	10	6.4	89	0.91	2	38	2-38	Y	Tahitan Lake	2017
139	22-May	21	20006	14	22	10	7.0	89	0.99	2	39	2-39	Y	Tahitan Lake	2017
140	22-May	21	20006	15	22	10	7.9	95	0.92	2	40	2-40	Y	Tahitan Lake	2017

141	22-May	21	20006	16	22	10	7.2	92	0.92	2	41	2-41	Y	Tahltan Lake	2017
142	22-May	21	20006	17	22	10	8.7	97	0.95	2	42	2-42	N		
143	22-May	21	20006	18	22	10	4.8	80	0.94	2	43	2-43	N		
144	22-May	21	20006	19	22	10	6.5	87	0.99	2	44	2-44	Y	Tahltan Lake	2017
145	22-May	21	20006	20	22	10	5.1	85	0.83	2	45	2-45	Y	Tahltan Lake	2017
146	22-May	21	20006	21	22	10	5.0	83	0.87	2	46	2-46	Y	Tahltan Lake	2017
147	22-May	21	20006	22	22	10	7.7	95	0.90	2	47	2-47	Y	Tahltan Lake	2017
148	22-May	21	20006	23	22	10	6.3	88	0.92	2	48	2-48	Y	Tahltan Lake	2017
149	22-May	21	20006	24	22	10	6.8	88	1.00	2	49	2-49	Y	Tahltan Lake	2017
150	22-May	21	20006	25	22	10	6.0	85	0.98	2	50	2-50	N		
151	22-May	21	20007	1	22	10	5.3	84	0.89	2	51	2-51	Y	Tahltan Lake	2017
152	22-May	21	20007	2	22	10	4.3	79	0.87	2	52	2-52	N		
153	22-May	21	20007	3	22	10	5.4	83	0.94	2	53	2-53	Y	Tahltan Lake	2017
154	22-May	21	20007	4	22	10	5.6	85	0.91	2	54	2-54	Y	Tahltan Lake	2017
155	22-May	21	20007	5	22	10	5.8	86	0.91	2	55	2-55	Y	Tahltan Lake	2017
156	22-May	21	20007	6	22	10	7.0	91	0.93	2	56	2-56	Y	Tahltan Lake	2017
157	22-May	21	20007	7	22	10	6.1	88	0.90	2	57	2-57	Y	Tahltan Lake	2017
158	22-May	21	20007	8	22	10	7.2	93	0.90	2	58	2-58	Y	Tahltan Lake	2017
159	22-May	21	20007	9	22	10	7.3	92	0.94	2	59	2-59	Y	Tahltan Lake	2017
160	22-May	21	20007	10	22	10	8.2	96	0.93	2	60	2-60	Y	Tahltan Lake	2017
161	23-May	21	20007	11	22	10	6.6	91	0.88	2	61	2-61	Y	Tahltan Lake	2017
162	23-May	21	20007	12	22	10	6.2	90	0.85	2	62	2-62	Y	Tahltan Lake	2017
163	23-May	21	20007	13	22	10	6.0	85	0.98	2	63	2-63	Y	Tahltan Lake	2017
164	23-May	21	20007	14	22	10	4.9	84	0.83	2	64	2-64	Y	Tahltan Lake	2017
165	23-May	21	20007	15	22	10	6.7	92	0.86	2	65	2-65	N		
166	23-May	21	20007	16	22	10	6.5	89	0.92	2	66	2-66	Y	Tahltan Lake	2017
167	23-May	21	20007	17	22	10	5.1	84	0.86	2	67	2-67	N		
168	23-May	21	20007	18	22	10	7.2	93	0.90	2	68	2-68	N		
169	23-May	21	20007	19	22	10	6.5	90	0.89	2	69	2-69	Y	Tahltan Lake	2017
170	23-May	21	20007	20	22	10	6.0	86	0.94	2	70	2-70	Y	Tahltan Lake	2017
171	23-May	21	20007	21	22	10	5.8	89	0.82	2	71	2-71	Y	Tahltan Lake	2017
172	23-May	21	20007	22	22	10	5.4	85	0.88	2	72	2-72	N		
173	23-May	21	20007	23	22	10	6.1	87	0.93	2	73	2-73	Y	Tahltan Lake	2017
174	23-May	21	20007	24	22	10	7.5	95	0.87	2	74	2-74	Y	Tahltan Lake	2017
175	23-May	21	20007	25	22	10	5.7	85	0.93	2	75	2-75	Y	Tahltan Lake	2017
176	23-May	21	20008	1	22	10	5.7	85	0.93	2	76	2-76	N		
177	23-May	21	20008	2	22	10	7.7	92	0.99	2	77	2-77	Y	Tahltan Lake	2017
178	23-May	21	20008	3	22	10	7.2	93	0.90	2	78	2-78	Y	Tahltan Lake	2017
179	23-May	21	20008	4	22	10	6.4	88	0.94	2	79	2-79	Y	Tahltan Lake	2017
180	23-May	21	20008	5	22	10	5.6	84	0.94	2	80	2-80	Y	Tahltan Lake	2017
181	23-May	21	20008	6	33	20	12.2	112	0.87	2	81	2-81	N		
182	23-May	21	20008	7	22	10	5.9	88	0.87	2	82	2-82	N		
183	23-May	21	20008	8	22	10	7.1	92	0.91	2	83	2-83	Y	Tahltan Lake	2017
184	23-May	21	20008	9	22	10	6.8	90	0.93	2	84	2-84	Y	Tahltan Lake	2017
185	23-May	21	20008	10	22	10	8.0	96	0.90	2	85	2-85	N		
186	23-May	21	20008	11	22	10	6.5	90	0.89	2	86	2-86	Y	Tahltan Lake	2017
187	23-May	21	20008	12	22	10	6.9	87	1.05	2	87	2-87	Y	Tahltan Lake	2017
188	23-May	21	20008	13	22	10	7.3	92	0.94	2	88	2-88	Y	Tahltan Lake	2017
189	23-May	21	20008	14	22	10	6.8	91	0.90	2	89	2-89	Y	Tahltan Lake	2017
190	23-May	21	20008	15	22	10	6.8	89	0.96	2	90	2-90	Y	Tahltan Lake	2017
191	23-May	21	20008	16	22	10	6.3	88	0.92	2	91	2-91	N		
192	23-May	21	20008	17	22	10	6.0	88	0.88	2	92	2-92	Y	Tahltan Lake	2017
193	23-May	21	20008	18	22	10	5.8	85	0.94	2	93	2-93	N		
194	23-May	21	20008	19	22	10	7.3	83	1.28	2	94	2-94	Y	Tahltan Lake	2017
195	23-May	21	20008	20	22	10	7.9	95	0.92	2	95	2-95	Y	Tahltan Lake	2017
196	23-May	21	20008	21	22	10	7.0	90	0.96	2	96	2-96	Y	Tahltan Lake	2017
197	23-May	21	20008	22	33	20	7.4	94	0.89	2	97	2-97	N		
198	23-May	21	20008	23	22	10	5.9	85	0.96	2	98	2-98	Y	Tahltan Lake	2017
199	23-May	21	20008	24	22	10	6.3	89	0.89	2	99	2-99	Y	Tahltan Lake	2017
200	23-May	21	20008	25	22	10	4.3	73	1.11	2	100	2-100	N		
201	23-May	21	20009	1	22	10	5.7	87	0.87	3	1	3-1	N		
202	23-May	21	20009	2	33	20	13.0	110	0.98	3	2	3-2	N		
203	23-May	21	20009	3	22	10	6.6	89	0.94	3	3	3-3	Y	Tahltan Lake	2017
204	23-May	21	20009	4	22	10	5.9	88	0.87	3	4	3-4	Y	Tahltan Lake	2017
205	23-May	21	20009	5	22	10	7.1	90	0.97	3	5	3-5	Y	Tahltan Lake	2017
206	23-May	21	20009	6	22	10	6.6	88	0.97	3	6	3-6	Y	Tahltan Lake	2017
207	23-May	21	20009	7	22	10	8.0	92	1.03	3	7	3-7	Y	Tahltan Lake	2017
208	23-May	21	20009	8	22	10	7.5	93	0.93	3	8	3-8	N		
209	23-May	21	20009	9	22	10	6.5	90	0.89	3	9	3-9	N		
210	23-May	21	20009	10	22	10	4.2	76	0.96	3	10	3-10	N		

211	23-May	21	20009	11	22	10	5.5	86	0.86	3	11	3-11	Y	Tahltan Lake	2017
212	23-May	21	20009	12	22	10	5.8	88	0.85	3	12	3-12	Y	Tahltan Lake	2017
213	23-May	21	20009	13	22	10	7.2	91	0.96	3	13	3-13	Y	Tahltan Lake	2017
214	23-May	21	20009	14	22	10	6.8	94	0.82	3	14	3-14	Y	Tahltan Lake	2017
215	23-May	21	20009	15	22	10	6.5	90	0.89	3	15	3-15	Y	Tahltan Lake	2017
216	23-May	21	20009	16	22	10	5.2	84	0.88	3	16	3-16	N		
217	24-May	21	20009	17	22	10	10.4	102	0.98	3	17	3-17	N		
218	24-May	21	20009	18	22	10	7.8	94	0.94	3	18	3-18	Y	Tahltan Lake	2017
219	24-May	21	20009	19	22	10	6.2	87	0.94	3	19	3-19	N		
220	24-May	21	20009	20	22	10	8.0	94	0.96	3	20	3-20	Y	Tahltan Lake	2017
221	24-May	21	20009	21	22	10	7.5	93	0.93	3	21	3-21	Y	Tahltan Lake	2017
222	24-May	21	20009	22	22	10	5.9	86	0.93	3	22	3-22	Y	Tahltan Lake	2017
223	24-May	21	20009	23	22	10	7.5	93	0.93	3	23	3-23	Y	Tahltan Lake	2017
224	24-May	21	20009	24	22	10	6.5	87	0.99	3	24	3-24	Y	Tahltan Lake	2017
225	24-May	21	20009	25	22	10	5.6	86	0.88	3	25	3-25	Y	Tahltan Lake	2017
226	24-May	21	20010	1	22	10	6.8	90	0.93	3	26	3-26	Y	Tahltan Lake	2017
227	24-May	21	20010	2	22	10	6.8	89	0.96	3	27	3-27	Y	Tahltan Lake	2017
228	24-May	21	20010	3	22	10	6.9	90	0.95	3	28	3-28	Y	Tahltan Lake	2017
229	24-May	21	20010	4	22	10	6.6	89	0.94	3	29	3-29	N		
230	24-May	21	20010	5	22	10	7.1	90	0.97	3	30	3-30	Y	Tahltan Lake	2017
231	25-May	21	20010	6	22	10	6.9	93	0.86	3	31	3-31	Y	Tahltan Lake	2017
232	25-May	21	20010	7	22	10	6.7	93	0.83	3	32	3-32	N		
233	25-May	21	20010	8	22	10	7.2	94	0.87	3	33	3-33	Y	Tahltan Lake	2017
234	25-May	21	20010	9	22	10	8.1	95	0.94	3	34	3-34	Y	Tahltan Lake	2017
235	25-May	21	20010	10	22	10	7.2	93	0.90	3	35	3-35	Y	Tahltan Lake	2017
236	25-May	21	20010	11	22	10	7.5	92	0.96	3	36	3-36	Y	Tahltan Lake	2017
237	25-May	21	20010	12	22	10	9.0	96	1.02	3	37	3-37	Y	Tahltan Lake	2017
238	25-May	21	20010	13	22	10	7.1	91	0.94	3	38	3-38	Y	Tahltan Lake	2017
239	25-May	21	20010	14	22	10	6.8	87	1.03	3	39	3-39	Y	Tahltan Lake	2017
240	25-May	21	20010	15	22	10	7.3	92	0.94	3	40	3-40	Y	Tahltan Lake	2017
241	25-May	21	20010	16	22	10	6.4	90	0.88	3	41	3-41	N		
242	25-May	21	20010	17	22	10	6.7	91	0.89	3	42	3-42	Y	Tahltan Lake	2017
243	25-May	21	20010	18	22	10	7.2	92	0.92	3	43	3-43	Y	Tahltan Lake	2017
244	25-May	21	20010	19	22	10	6.9	90	0.95	3	44	3-44	Y	Tahltan Lake	2017
245	25-May	21	20010	20	22	10	6.3	89	0.89	3	45	3-45	N		
246	25-May	21	20010	21	22	10	6.9	90	0.95	3	46	3-46	Y	Tahltan Lake	2017
247	25-May	21	20010	22	22	10	6.7	90	0.92	3	47	3-47	Y	Tahltan Lake	2017
248	25-May	21	20010	23	22	10	6.4	88	0.94	3	48	3-48	Y	Tahltan Lake	2017
249	25-May	21	20010	24	22	10	6.7	89	0.95	3	49	3-49	N		
250	25-May	21	20010	25	22	10	7.8	95	0.91	3	50	3-50	Y	Tahltan Lake	2017
251	25-May	21	20011	1	22	10	7.5	95	0.87	3	51	3-51	Y	Tahltan Lake	2017
252	25-May	21	20011	2	22	10	8.1	94	0.98	3	52	3-52	N		
253	25-May	21	20011	3	33	20	8.4	98	0.89	3	53	3-53	N		
254	25-May	21	20011	4	22	10	6.4	87	0.97	3	54	3-54	N		
255	25-May	21	20011	5	22	10	7.6	94	0.92	3	55	3-55	N		
256	25-May	21	20011	6	22	10	5.0	76	1.14	3	56	3-56	N		
257	25-May	21	20011	7	22	10	7.3	89	1.04	3	57	3-57	N		
258	25-May	21	20011	8	22	10	6.3	86	0.99	3	58	3-58	Y	Tahltan Lake	2017
259	25-May	21	20011	9	22	10	6.8	87	1.03	3	59	3-59	Y	Tahltan Lake	2017
260	25-May	21	20011	10	22	10	5.2	82	0.94	3	60	3-60	Y	Tahltan Lake	2017
261	25-May	21	20011	11	22	10	4.8	83	0.84	3	61	3-61	N		
262	25-May	21	20011	12	22	10	7.9	96	0.89	3	62	3-62	Y	Tahltan Lake	2017
263	25-May	21	20011	13	22	10	6.7	89	0.95	3	63	3-63	N		
264	25-May	21	20011	14	22	10	6.2	89	0.88	3	64	3-64	Y	Tahltan Lake	2017
265	25-May	21	20011	15	22	10	7.2	92	0.92	3	65	3-65	Y	Tahltan Lake	2017
266	25-May	21	20011	16	22	10	8.7	100	0.87	3	66	3-66	N		
267	25-May	21	20011	17	22	10	7.2	92	0.92	3	67	3-67	Y	Tahltan Lake	2017
268	25-May	21	20011	18	22	10	7.1	94	0.85	3	68	3-68	Y	Tahltan Lake	2017
269	25-May	21	20011	19	22	10	6.4	90	0.88	3	69	3-69	Y	Tahltan Lake	2017
270	25-May	21	20011	20	22	10	5.9	86	0.93	3	70	3-70	N		
271	25-May	21	20011	21	22	10	6.7	92	0.86	3	71	3-71	Y	Tahltan Lake	2017
272	25-May	21	20011	22	22	10	6.5	89	0.92	3	72	3-72	N		
273	25-May	21	20011	23	22	10	5.5	86	0.86	3	73	3-73	Y	Tahltan Lake	2017
274	25-May	21	20011	24	22	10	6.5	90	0.89	3	74	3-74	N		
275	25-May	21	20011	25	22	10	6.1	87	0.93	3	75	3-75	Y	Tahltan Lake	2017
276	25-May	21	20012	1	22	10	7.1	92	0.91	3	76	3-76	Y	Tahltan Lake	2017
277	25-May	21	20012	2	33	20	9.1	104	0.81	3	77	3-77	N		
278	25-May	21	20012	3	22	10	8.7	99	0.90	3	78	3-78	Y	Tahltan Lake	2017
279	25-May	21	20012	4	22	10	7.0	90	0.96	3	79	3-79	Y	Tahltan Lake	2017
280	25-May	21	20012	5	22	10	6.6	90	0.91	3	80	3-80	Y	Tahltan Lake	2017
281	25-May	21	20012	6	22	10	5.7	87	0.87	3	81	3-81	Y	Tahltan Lake	2017
282	25-May	21	20012	7	22	10	6.1	89	0.87	3	82	3-82	Y	Tahltan Lake	2017
283	25-May	21	20012	8	22	10	7.3	94	0.88	3	83	3-83	Y	Tahltan Lake	2017
284	25-May	21	20012	9	22	10	6.3	87	0.96	3	84	3-84	Y	Tahltan Lake	2017
285	25-May	21	20012	10	22	10	6.3	87	0.96	3	85	3-85	Y	Tahltan Lake	2017
286	25-May	21	20012	11	22	10	6.2	89	0.88	3	86	3-86	N		
287	25-May	21	20012	12	22	10	6.9	90	0.95	3	87	3-87	Y	Tahltan Lake	2017
288	25-May	21	20012	13	22	10	5.0	83	0.87	3	88	3-88	Y	Tahltan Lake	2017
289	25-May	21	20012	14	22	10	6.2	87	0.94	3	89	3-89	Y	Tahltan Lake	2017
290	25-May	21	20012	15	22	10	5.7	84	0.96	3	90	3-90	Y	Tahltan Lake	2017

291	25-May	21	20012	16	22	10	6.8	90	0.93	3	91	3-91	N		
292	25-May	21	20012	17	22	10	6.3	87	0.96	3	92	3-92	Y	Tahltan Lake	2017
293	25-May	21	20012	18	22	10	8.5	95	0.99	3	93	3-93	Y	Tahltan Lake	2017
294	25-May	21	20012	19	22	10	7.0	91	0.93	3	94	3-94	Y	Tahltan Lake	2017
295	25-May	21	20012	20	22	10	8.7	95	1.01	3	95	3-95	Y	Tahltan Lake	2017
296	25-May	21	20012	21	22	10	5.3	82	0.96	3	96	3-96	Y	Tahltan Lake	2017
297	25-May	21	20012	22	22	10	6.7	89	0.95	3	97	3-97	Y	Tahltan Lake	2017
298	25-May	21	20012	23	22	10	8.4	96	0.95	3	98	3-98	N		
299	25-May	21	20012	24	22	10	7.9	94	0.95	3	99	3-99	Y	Tahltan Lake	2017
300	25-May	21	20012	25	33	20	8.9	99	0.92	3	100	3-100	N		
301	25-May	21	20013	1	22	10	6.9	88	1.01	4	1	4-1	Y	Tahltan Lake	2017
302	25-May	21	20013	2	22	10	8.0	94	0.96	4	2	4-2	Y	Tahltan Lake	2017
303	25-May	21	20013	3	22	10	9.6	99	0.99	4	3	4-3	Y	Tahltan Lake	2017
304	25-May	21	20013	4	22	10	8.6	96	0.97	4	4	4-4	N		
305	25-May	21	20013	5	22	10	6.9	89	0.98	4	5	4-5	Y	Tahltan Lake	2017
306	25-May	21	20013	6	22	10	8.1	94	0.98	4	6	4-6	N		
307	26-May	22	20013	7	22	10	6.0	88	0.88	4	7	4-7	Y	Tahltan Lake	2017
308	26-May	22	20013	8	22	10	6.3	87	0.96	4	8	4-8	Y	Tahltan Lake	2017
309	26-May	22	20013	9	22	10	7.2	92	0.92	4	9	4-9	Y	Tahltan Lake	2017
310	26-May	22	20013	10	22	10	8.0	94	0.96	4	10	4-10	N		
311	26-May	22	20013	11	22	10	8.6	97	0.94	4	11	4-11	Y	Tahltan Lake	2017
312	26-May	22	20013	12	22	10	7.0	91	0.93	4	12	4-12	Y	Tahltan Lake	2017
313	26-May	22	20013	13	22	10	4.8	78	1.01	4	13	4-13	Y	Tahltan Lake	2017
314	26-May	22	20013	14	22	10	5.7	84	0.96	4	14	4-14	N		
315	26-May	22	20013	15	22	10	7.7	94	0.93	4	15	4-15	Y	Tahltan Lake	2017
316	26-May	22	20013	16	22	10	6.8	91	0.90	4	16	4-16	Y	Tahltan Lake	2017
317	26-May	22	20013	17	22	10	8.1	93	1.01	4	17	4-17	Y	Tahltan Lake	2017
318	26-May	22	20013	18	22	10	8.1	91	1.07	4	18	4-18	Y	Tahltan Lake	2017
319	26-May	22	20013	19	22	10	7.4	90	1.02	4	19	4-19	Y	Tahltan Lake	2017
320	26-May	22	20013	20	22	10	6.2	85	1.01	4	20	4-20	N		
321	26-May	22	20013	21	22	10	7.3	90	1.00	4	21	4-21	Y	Tahltan Lake	2017
322	26-May	22	20013	22	22	10	7.2	90	0.99	4	22	4-22	Y	Tahltan Lake	2017
323	26-May	22	20013	23	22	10	7.5	93	0.93	4	23	4-23	Y	Tahltan Lake	2017
324	26-May	22	20013	24	22	10	6.6	88	0.97	4	24	4-24	Y	Tahltan Lake	2017
325	26-May	22	20013	25	22	10	5.7	83	1.00	4	25	4-25	N		
326	26-May	22	20014	1	22	10	7.2	87	1.09	4	26	4-26	Y	Tahltan Lake	2017
327	26-May	22	20014	2	22	10	6.4	85	1.04	4	27	4-27	Y	Tahltan Lake	2017
328	26-May	22	20014	3	22	10	6.0	82	1.09	4	28	4-28	Y	Tahltan Lake	2017
329	26-May	22	20014	4	22	10	7.6	90	1.04	4	29	4-29	Y	Tahltan Lake	2017
330	27-May	22	20014	5	22	10	8.4	99	0.87	4	30	4-30	Y	Tahltan Lake	2017
331	27-May	22	20014	6	22	10	7.3	94	0.88	4	31	4-31	Y	Tahltan Lake	2017
332	27-May	22	20014	7	22	10	6.1	90	0.84	4	32	4-32	Y	Tahltan Lake	2017
333	27-May	22	20014	8	22	10	6.8	91	0.90	4	33	4-33	Y	Tahltan Lake	2017
334	27-May	22	20014	9	22	10	7.4	94	0.89	4	34	4-34	Y	Tahltan Lake	2017
335	27-May	22	20014	10	22	10	9.2	100	0.92	4	35	4-35	Y	Tahltan Lake	2017
336	27-May	22	20014	11	22	10	6.7	91	0.89	4	36	4-36	Y	Tahltan Lake	2017
337	27-May	22	20014	12	22	10	8.1	90	1.11	4	37	4-37	N		
338	27-May	22	20014	13	22	10	7.8	90	1.07	4	38	4-38	Y	Tahltan Lake	2017
339	27-May	22	20014	14	22	10	6.0	83	1.05	4	39	4-39	N		
340	27-May	22	20014	15	22	10	5.7	87	0.87	4	40	4-40	Y	Tahltan Lake	2017
341	27-May	22	20014	16	22	10	8.5	97	0.93	4	41	4-41	Y	Tahltan Lake	2017
342	27-May	22	20014	17	22	10	6.6	88	0.97	4	42	4-42	Y	Tahltan Lake	2017
343	27-May	22	20014	18	22	10	8.1	97	0.89	4	43	4-43	N		
344	27-May	22	20014	19	22	10	6.8	91	0.90	4	44	4-44	Y	Tahltan Lake	2017
345	27-May	22	20014	20	33	20	11.0	117	0.69	4	45	4-45	N		
346	27-May	22	20014	21	22	10	7.1	91	0.94	4	46	4-46	Y	Tahltan Lake	2017
347	27-May	22	20014	22	22	10	9.0	97	0.99	4	47	4-47	N		
348	27-May	22	20014	23	22	10	7.0	90	0.96	4	48	4-48	Y	Tahltan Lake	2017
349	27-May	22	20014	24	22	10	5.0	80	0.98	4	49	4-49	N		
350	27-May	22	20014	25	22	10	6.5	89	0.92	4	50	4-50	Y	Tahltan Lake	2017
351	27-May	22	20015	1	22	10	8.6	98	0.91	4	51	4-51	Y	Tahltan Lake	2017
352	27-May	22	20015	2	22	10	6.2	86	0.97	4	52	4-52	Y	Tahltan Lake	2017
353	27-May	22	20015	3	22	10	6.7	91	0.89	4	53	4-53	Y	Tahltan Lake	2017
354	28-May	22	20015	4	22	10	8.7	96	0.98	4	54	4-54	Y	Tahltan Lake	2017
355	28-May	22	20015	5	22	10	8.9	95	1.04	4	55	4-55	Y	Tahltan Lake	2017
356	28-May	22	20015	6	22	10	8.0	92	1.03	4	56	4-56	Y	Tahltan Lake	2017
357	28-May	22	20015	7	22	10	6.8	87	1.03	4	57	4-57	Y	Tahltan Lake	2017
358	28-May	22	20015	8	22	10	9.9	98	1.05	4	58	4-58	Y	Tahltan Lake	2017
359	28-May	22	20015	9	22	10	7.3	89	1.04	4	59	4-59	Y	Tahltan Lake	2017
360	28-May	22	20015	10	33	20	24.0	144	0.80	4	60	4-60	N		

361	28-May	22	20015	11	22	10	8.1	90	1.11	4	61	4-61	Y	Tahltan Lake	2017
362	28-May	22	20015	12	22	10	7.6	89	1.08	4	62	4-62	Y	Tahltan Lake	2017
363	28-May	22	20015	13	22	10	7.6	89	1.08	4	63	4-63	Y	Tahltan Lake	2017
364	28-May	22	20015	14	22	10	7.9	90	1.08	4	64	4-64	N		
365	28-May	22	20015	15	22	10	6.6	89	0.94	4	65	4-65	N		
366	28-May	22	20015	16	22	10	5.8	88	0.85	4	66	4-66	N		
367	28-May	22	20015	17	22	10	7.5	98	0.80	4	67	4-67	Y	Tahltan Lake	2017
368	28-May	22	20015	18	22	10	7.2	94	0.87	4	68	4-68	Y	Tahltan Lake	2017
369	28-May	22	20015	19	22	10	7.3	94	0.88	4	69	4-69	Y	Tahltan Lake	2017
370	28-May	22	20015	20	22	10	8.8	98	0.93	4	70	4-70	Y	Tahltan Lake	2017
371	28-May	22	20015	21	22	10	6.9	93	0.86	4	71	4-71	Y	Tahltan Lake	2017
372	28-May	22	20015	22	22	10	6.5	89	0.92	4	72	4-72	Y	Tahltan Lake	2017
373	28-May	22	20015	23	22	10	6.4	90	0.88	4	73	4-73	Y	Tahltan Lake	2017
374	28-May	22	20015	24	22	10	5.4	84	0.91	4	74	4-74	Y	Tahltan Lake	2017
375	28-May	22	20015	25	22	10	7.0	92	0.90	4	75	4-75	Y	Tahltan Lake	2017
376	29-May	22	20016	1	22	10	10.0	101	0.97	4	76	4-76	Y	Tahltan Lake	2017
377	29-May	22	20016	2	22	10	6.6	87	1.00	4	77	4-77	Y	Tahltan Lake	2017
378	29-May	22	20016	3	22	10	7.9	93	0.98	4	78	4-78	Y	Tahltan Lake	2017
379	29-May	22	20016	4	22	10	7.1	92	0.91	4	79	4-79	Y	Tahltan Lake	2017
380	29-May	22	20016	5	22	10	7.1	91	0.94	4	80	4-80	Y	Tahltan Lake	2017
381	29-May	22	20016	6	22	10	6.9	89	0.98	4	81	4-81	Y	Tahltan Lake	2017
382	29-May	22	20016	7	22	10	8.8	97	0.96	4	82	4-82	Y	Tahltan Lake	2017
383	29-May	22	20016	8	22	10	8.9	95	1.04	4	83	4-83	Y	Tahltan Lake	2017
384	29-May	22	20016	9	22	10	8.3	93	1.03	4	84	4-84	N		
385	29-May	22	20016	10	22	10	7.4	90	1.02	4	85	4-85	Y	Tahltan Lake	2017
386	30-May	22	20016	11	22	10	7.4	95	0.86	4	86	4-86	Y	Tahltan Lake	2017
387	30-May	22	20016	12	22	10	8.7	101	0.84	4	87	4-87	Y	Tahltan Lake	2017
388	30-May	22	20016	13	22	10	7.5	96	0.85	4	88	4-88	Y	Tahltan Lake	2017
389	30-May	22	20016	14	22	10	6.5	93	0.81	4	89	4-89	Y	Tahltan Lake	2017
390	30-May	22	20016	15	22	10	8.0	98	0.85	4	90	4-90	Y	Tahltan Lake	2017
391	30-May	22	20016	16	22	10	6.3	90	0.86	4	91	4-91	Y	Tahltan Lake	2017
392	30-May	22	20016	17	22	10	6.7	90	0.92	4	92	4-92	Y	Tahltan Lake	2017
393	30-May	22	20016	18	22	10	5.2	85	0.85	4	93	4-93	N		
394	30-May	22	20016	19	22	10	7.0	92	0.90	4	94	4-94	Y	Tahltan Lake	2017
395	30-May	22	20016	20	22	10	7.0	96	0.79	4	95	4-95	Y	Tahltan Lake	2017
396	31-May	22	20016	21	22	10	9.1	98	0.97	4	96	4-96	Y	Tahltan Lake	2017
397	31-May	22	20016	22	22	10	7.9	96	0.89	4	97	4-97	Y	Tahltan Lake	2017
398	31-May	22	20016	23	22	10	7.3	95	0.85	4	98	4-98	Y	Tahltan Lake	2017
399	31-May	22	20016	24	22	10	6.6	91	0.88	4	99	4-99	Y	Tahltan Lake	2017
400	31-May	22	20016	25	22	10	8.1	96	0.92	4	100	4-100	Y	Tahltan Lake	2017
401	31-May	22	20017	1	22	10	6.6	93	0.82	5	1	5-1	Y	Tahltan Lake	2017
402	31-May	22	20017	2	22	10	6.6	90	0.91	5	2	5-2	Y	Tahltan Lake	2017
403	31-May	22	20017	3	33	20	8.4	98	0.89	5	3	5-3	N		
404	31-May	22	20017	4	22	10	7.2	92	0.92	5	4	5-4	Y	Tahltan Lake	2017
405	31-May	22	20017	5	22	10	6.3	91	0.84	5	5	5-5	Y	Tahltan Lake	2017
406	1-Jun	22	20017	6	22	10	4.2	80	0.82	5	6	5-6	Y	Tahltan Lake	2017
407	1-Jun	22	20017	7	22	10	6.0	87	0.91	5	7	5-7	Y	Tahltan Lake	2017
408	1-Jun	22	20017	8	22	10	6.2	90	0.85	5	8	5-8	Y	Tahltan Lake	2017
409	1-Jun	22	20017	9	22	10	6.5	90	0.89	5	9	5-9	Y	Tahltan Lake	2017
410	1-Jun	22	20017	10	22	10	6.3	90	0.86	5	10	5-10	Y	Tahltan Lake	2017
411	1-Jun	22	20017	11	22	10	6.8	92	0.87	5	11	5-11	Y	Tahltan Lake	2017
412	1-Jun	22	20017	12	22	10	5.4	85	0.88	5	12	5-12	N		
413	1-Jun	22	20017	13	22	10	7.0	94	0.84	5	13	5-13	N		
414	1-Jun	22	20017	14	22	10	6.7	90	0.92	5	14	5-14	Y	Tahltan Lake	2017
415	1-Jun	22	20017	15	22	10	6.5	90	0.89	5	15	5-15	Y	Tahltan Lake	2017
416	2-Jun	23	20017	16	22	10	8.8	99	0.91	5	16	5-16	Y	Tahltan Lake	2017
417	2-Jun	23	20017	17	22	10	8.2	97	0.90	5	17	5-17	Y	Tahltan Lake	2017
418	2-Jun	23	20017	18	22	10	6.5	92	0.83	5	18	5-18	Y	Tahltan Lake	2017
419	2-Jun	23	20017	19	33	20	8.9	103	0.81	5	19	5-19	N		
420	2-Jun	23	20017	20	22	10	6.7	92	0.86	5	20	5-20	Y	Tahltan Lake	2017
421	2-Jun	23	20017	21	22	10	6.3	90	0.86	5	21	5-21	N		
422	2-Jun	23	20017	22	22	10	7.3	94	0.88	5	22	5-22	Y	Tahltan Lake	2017
423	2-Jun	23	20017	23	22	10	7.1	93	0.88	5	23	5-23	Y	Tahltan Lake	2017
424	2-Jun	23	20017	24	22	10	6.7	91	0.89	5	24	5-24	Y	Tahltan Lake	2017
425	2-Jun	23	20017	25	22	10	7.8	95	0.91	5	25	5-25	Y	Tahltan Lake	2017
426	3-Jun	23	20018	1	22	10	6.6	91	0.88	5	26	5-26	N		
427	3-Jun	23	20018	2	22	10	8.9	99	0.92	5	27	5-27	Y	Tahltan Lake	2017
428	3-Jun	23	20018	3	22	10	7.5	96	0.85	5	28	5-28	Y	Tahltan Lake	2017
429	3-Jun	23	20018	4	22	10	6.7	90	0.92	5	29	5-29	Y	Tahltan Lake	2017
430	3-Jun	23	20018	5	22	10	6.7	90	0.92	5	30	5-30	N		

431	4-Jun	23	20018	6	22	10	6.7	90	0.92	5	31	5-31	N			
432	4-Jun	23	20018	7	22	10	9.0	103	0.82	5	32	5-32	N			
433	4-Jun	23	20018	8	22	10	7.0	91	0.93	5	33	5-33	Y	Tahltan Lake	2017	
434	4-Jun	23	20018	9	22	10	7.4	94	0.89	5	34	5-34	Y	Tahltan Lake	2017	
435	4-Jun	23	20018	10	22	10	6.8	92	0.87	5	35	5-35	Y	Tahltan Lake	2017	
436	4-Jun	23	20018	11	33	20	13.6	115	0.89	5	36	5-36	Y	Tahltan Lake	2016	
437	4-Jun	23	20018	12	22	10	6.5	90	0.89	5	37	5-37	N			
438	4-Jun	23	20018	13	22	10	6.4	88	0.94	5	38	5-38	Y	Tahltan Lake	2017	
439	4-Jun	23	20018	14	22	10	8.2	98	0.87	5	39	5-39	Y	Tahltan Lake	2017	
440	4-Jun	23	20018	15	22	10	6.1	87	0.93	5	40	5-40	Y	Tahltan Lake	2017	
441	5-Jun	23	20018	16	22	10	8.0	96	0.90	5	41	5-41	Y	Tahltan Lake	2017	
442	5-Jun	23	20018	17	22	10	8.3	96	0.94	5	42	5-42	Y	Tahltan Lake	2017	
443	5-Jun	23	20018	18	22	10	7.4	92	0.95	5	43	5-43	Y	Tahltan Lake	2017	
444	5-Jun	23	20018	19	22	10	7.5	93	0.93	5	44	5-44	Y	Tahltan Lake	2017	
445	5-Jun	23	20018	20	22	10	6.6	92	0.85	5	45	5-45	Y	Tahltan Lake	2017	
446	6-Jun	23	20018	21	22	10	5.7	88	0.84	5	46	5-46	Y	Tahltan Lake	2017	
447	6-Jun	23	20018	22	22	10	6.3	92	0.81	5	47	5-47	Y	Tahltan Lake	2017	
448	6-Jun	23	20018	23	22	10	6.8	91	0.90	5	48	5-48	Y	Tahltan Lake	2017	
449	6-Jun	23	20018	24	22	10	6.8	93	0.85	5	49	5-49	Y	Tahltan Lake	2017	
450	6-Jun	23	20018	25	22	10	8.3	99	0.86	5	50	5-50	Y	Tahltan Lake	2017	
451	7-Jun	23	20019	1	22	10	7.6	98	0.81	5	51	5-51	Y	Tahltan Lake	2017	
452	7-Jun	23	20019	2	22	10	5.9	91	0.78	5	52	5-52	N			
453	7-Jun	23	20019	3	22	10	8.1	95	0.94	5	53	5-53	Y	Tahltan Lake	2017	
454	7-Jun	23	20019	4	22	10	8.4	97	0.92	5	54	5-54	Y	Tahltan Lake	2017	
455	7-Jun	23	20019	5	22	10	6.2	89	0.88	5	55	5-55	Y	Tahltan Lake	2017	
456	8-Jun	23	20019	6	22	10	7.2	95	0.84	5	56	5-56	N			
457	8-Jun	23	20019	7	22	10	7.2	95	0.84	5	57	5-57	Y	Tahltan Lake	2017	
458	8-Jun	23	20019	8	22	10	9.3	100	0.93	5	58	5-58	N			
459	8-Jun	23	20019	9	22	10	6.7	91	0.89	5	59	5-59	Y	Tahltan Lake	2017	
460	8-Jun	23	20019	10	22	10	5.8	88	0.85	5	60	5-60	Y	Tahltan Lake	2017	
461	9-Jun	24	20019	11	22	10	7.6	94	0.92	5	61	5-61	Y	Tahltan Lake	2017	
462	9-Jun	24	20019	12	22	10	7.8	95	0.91	5	62	5-62	Y	Tahltan Lake	2017	
463	9-Jun	24	20019	13	22	10	6.9	92	0.89	5	63	5-63	N			
464	9-Jun	24	20019	14	22	10	6.3	87	0.96	5	64	5-64	Y	Tahltan Lake	2017	
465	9-Jun	24	20019	15	22	10	9.6	100	0.96	5	65	5-65	Y	Tahltan Lake	2017	
466	10-Jun	24	20019	16	22	10	6.9	90	0.95	5	66	5-66	Y	Tahltan Lake	2017	
467	10-Jun	24	20019	17	22	10	9.6	101	0.93	5	67	5-67	Y	Tahltan Lake	2017	
468	10-Jun	24	20019	18	22	10	5.1	81	0.96	5	68	5-68	Y	Tahltan Lake	2017	
469	10-Jun	24	20019	19	22	10	6.9	91	0.92	5	69	5-69	Y	Tahltan Lake	2017	
470	10-Jun	24	20019	20	22	10	6.8	89	0.96	5	70	5-70	Y	Tahltan Lake	2017	
471	11-Jun	24	20019	21	22	10	9.0	100	0.90	5	71	5-71	N			
				22	452								Y	336	336	2
				33	19								N	134	135	334
					471								No Sample	1	471	135
													Blank	0		471
														471		

# Appendix 4 - Budget Summary

## Fisheries and Oceans Canada - PSC Project Budget Financial Report

Name of Project and PSC#:

Tahltan Lake Sockeye Salmon Smolt Enumeration and Monitoring (I-20)

### EXPENDITURES

Labour DFO Employee Salaries and Benefits							
Position	Expenditures (DFO Inkind + P&C)	DFO-Inkind	P&C funding (expenses)	Approved Budget (P&C Funding)	Total P&C Funded Expenditure	Variance	
Manager	Salary \$ -						
	Benefits \$ -			\$ -			
Biologist	Salary \$ 2,025.00	\$ 2,025.00					
	Benefits \$ 546.75	\$ 546.75		\$ -			
Technician	Salary \$ 15,960.00	\$ 15,960.00					
	Benefits \$ 4,309.20	\$ 4,309.20		\$ -			
<b>Total Expended</b>	<b>\$ 22,840.95</b>	<b>\$ 22,840.95</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>
Subcontractors & Consultants							
Contract	Contract Amount Expended	Inkind	P&C funding (expenses)	Approved Budget	Total P&C Funded Expenditure	Variance	
Tahltan First Nations (TFN)	\$ 25,900.00		\$ 25,900	27,621			
Tahltan First Nations (TFN)	\$ 7,700.00		\$ 7,700	9,207			
Air charters	\$ 17,608.59		\$ 17,609	18,000			
	\$ -						
	\$ -						
<b>Total Expended</b>	<b>\$ 61,208.59</b>	<b>\$ -</b>	<b>\$ 61,208.59</b>	<b>\$ 54,828.00</b>	<b>\$ 61,208.59</b>	<b>\$ 3,619.41</b>	
		<b>\$ 22,840.95</b>		<b>Total \$ 54,828.00</b>	<b>\$ 51,208.59</b>	<b>\$ 3,619.41</b>	
Site / Project Costs							
Item	Amount Expended	Inkind	P&C funding (expenses)	Approved Budget	Total P&C Funded Expenditure	Variance	
Travel	\$ 1,642.77		\$ 1,643	\$ 3,229			
Small Tools & Equipment	\$ -						
Site Supplies & Materials	\$ 5,307.84		\$ 5,308	\$ 5,393			
Equipment Rental	\$ 681.53		\$ 682	\$ 945			
Work & Safety Gear	\$ 481.41		\$ 481	\$ 1,575			
Repairs & Maintenance	\$ -						
Permits	\$ -						
Other costs	\$ 1,170.15		\$ 1,170	\$ 1,200			
<b>Total Expended</b>	<b>\$ 9,283.70</b>	<b>\$ -</b>	<b>\$ 9,283.70</b>	<b>\$ 12,341.36</b>	<b>\$ 9,283.70</b>	<b>\$ 3,057.66</b>	
		<b>\$ -</b>		<b>\$ 12,341.36</b>	<b>\$ 9,283.70</b>	<b>\$ 3,057.66</b>	
Training Costs							
Item	Amount Expended	Inkind	P&C funding (expenses)	Approved Budget	Total P&C Funded Expenditure	Variance	
Firearms	\$ 300.00	\$ 300.00					
	\$ -						
<b>Total Expended</b>	<b>\$ 300.00</b>	<b>\$ 300.00</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>	
		<b>\$ 300.00</b>		<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>	

## Fisheries and Oceans Canada - PSC Project Budget Financial Report

Name of Project and PSC#:

Page 2 of 3

**Tahltan Lake Sockeye Salmon Smolt Enumeration and Monitoring (I-20)**

Overhead / Indirect Costs						
Item	Amount Expended	InKind	PSC funding (expenses)	Approved Budget	Total PSC Funded Expenditure	Variance
Office space; including utilities, etc.	\$ -					
Insurance	\$ -					
Office supplies	\$ -					
Telephone & long Distance	\$ 200.00		200			
Photocopies & printing	\$ -					
Indirect/overhead costs	\$ 400.00		400			
Administration and financial management	\$ -					
(If the PSC contribution to Indirect costs exceeds 20% of the total PSC grant submission of back-up documentation justifying the expense is required.)						
<b>Total Expended</b>	<b>\$ 600.00</b>	<b>\$ 600.00</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>
	<b>\$ 600.00</b>			<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>

Capital Costs / Assets (Value > \$250.00)						
Item	Amount Expended	InKind	PSC funding (expenses)	Approved Budget	Total PSC Funded Expenditure	Variance
	\$ -					
	\$ -					
	\$ -					
	\$ -					
<b>Total Expended</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>
	<b>\$ -</b>			<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>

### Financial Report

Categories	DFO InKind	Approved Budget (PSC Grant)	Project Expenditures (PSC\$)	Variance
Labour	\$ 22,840.95	\$ 54,828.00	\$ 51,208.59	\$ 3,619.41
Site / Project Costs	\$ -	\$ 12,341.36	\$ 9,283.70	\$ 3,057.66
Training	\$ 300.00	\$ -	\$ -	\$ -
Overhead / Indirect Costs	\$ 600.00	\$ -	\$ -	\$ -
Capital Costs / Assets	\$ -	\$ -	\$ -	\$ -
<b>TOTAL</b>		<b>\$ 67,169.36</b>	<b>\$ 60,492.29</b>	<b>\$ 6,677.07</b>

PSC Project Funding Grant Advance Amount Received	\$ (60,452.00)	(funds rec enter as negative)
PSC Project Funding Grant Amount Remaining to be Paid		(positive refundable to PSC)
<b>Difference Between Grant Amount and Project Expenditures</b>	<b>\$ (40.29)</b>	



# Fisheries and Oceans Canada - PSC Project Budget Financial Report

Name of Project and PSC#:

Page 3 of 3

**Tahltan Lake Sockeye Salmon Smolt Enumeration and Monitoring (I-20)**

Justification if Variance

90% of approved budget advanced to DFO; overspent by \$40

Project Manager Name

Jody Mackenzie-Grieve

Project Manager Signature

MackenzieGrieve, Jody  
Digitally signed by MackenzieGrieve, Jody  
Date: 2020.03.31 08:02:49 -0700

Date

31-Mar-20

DFO Responsibility Center Manager Name

Bill Waugh

DFO Responsibility Center Manager Signature

Waugh,  
William  
Digitally signed by Waugh, William  
Date: 2020.03.31  
16:37:20 -07'00'

Date

31-Mar-20