



# **Taseko Prosperity Gold-Copper Project**

## **Appendix 5-3-H**

**TASEKO MINES LIMITED  
PROSPERITY PROJECT AT FISH LAKE**

**FISHERIES DATA  
FROM THE PROSPERITY PROJECT AREA  
1996 DATA REPORT**

Prepared for  
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April 1997

## **1.0 INTRODUCTION**

This report presents the fisheries data that were collected in 1997 by Hallam Knight Piésold Ltd. for the Prosperity Gold-Copper Project at Fish Lake. The Prosperity Project, which was formerly known as the Fish Lake Project, is located southwest of Williams Lake in west-central British Columbia. Taseko Mines Limited is the proponent of the project.

This report includes only the results of work that was conducted in 1996. Hallam Knight Piésold has already produced six interim reports on the fisheries and aquatic resources of the Prosperity Project area, which are:

Hallam Knight Piésold Limited. 1994a. Taseko Mines Limited - Fish Lake Project - Fisheries and Aquatic Resources of the Fish Lake Project area - Data Report. Manuscript report to Taseko Mines Limited. Vancouver, B.C.

Hallam Knight Piésold Limited. 1994b. Taseko Mines Limited - Fish Lake Project - Preliminary Environmental Analysis of Fish Lake and Fish Creek, with concepts for Mitigation and Compensation. Manuscript report to Taseko Mines Limited. Vancouver, B.C.

Hallam Knight Piésold Limited. 1995a. Taseko Mines Limited - Fish Lake Project - Aquatic Resources of Fish Lake, Fish Creek and Related Fish Habitat Compensation Sites. Project area - Data Report. Manuscript report to Taseko Mines Limited. Vancouver, B.C. 300 p.

Hallam Knight Piésold Limited. 1995b. Taseko Mines Limited - Prosperity Gold-Copper Project at Fish Lake - Sport Fishery Statistics from Fish Lake, British Columbia - June-October 1995. Manuscript report to Taseko Mines Limited. Vancouver, B.C. 18 p. + appendices.

Hallam Knight Piésold Limited. 1996a. Taseko Mines Limited - Prosperity Project At Fish Lake - Fisheries Data from the Prosperity Project Area - 1995 Data Report. Manuscript report to Taseko Mines Limited. Vancouver, B.C. 4 p. + 11 appendices

Hallam Knight Piésold Limited. 1996b. Taseko Mines Limited - Prosperity Gold-Copper Project at Fish Lake - Sport Fishery Statistics from Fish Lake, British Columbia - 1995 and 1996. Manuscript report to Taseko Mines Limited. Vancouver, B.C. 95 p.

## **PROSPERITY PROJECT AT FISH LAKE - FISHERIES DATA**

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The present data report supplements, but does not supersede, the earlier reports listed above. In 1996, the almost all fisheries research in the Prosperity Project area was conducted by Triton Environmental Consultants Ltd. of Vancouver, B.C. The fisheries information presented in this report is mainly concerned with metal levels in fish tissues, which were studied as an adjunct to the baseline water quality program.

The main purpose of this data report is to give Taseko Mines Limited and Triton Environmental Consultants Ltd. an overview of the work that was done in 1996, and to help them identify areas for additional work in the coming field season.

## 2.0 REFERENCES

- Hallam Knight Piésold Limited. 1994a. Taseko Mines Limited - Fish Lake Project - Fisheries and Aquatic Resources of the Fish Lake Project area - Data Report. Manuscript report to Taseko Mines Limited. Vancouver, B.C.
- Hallam Knight Piésold Limited. 1994b. Taseko Mines Limited - Fish Lake Project - Preliminary Environmental Analysis of Fish Lake and Fish Creek, with concepts for Mitigation and Compensation. Manuscript report to Taseko Mines Limited. Vancouver, B.C.
- Hallam Knight Piésold Limited. 1995a. Taseko Mines Limited - Fish Lake Project - Aquatic Resources of Fish Lake, Fish Creek and Related Fish Habitat Compensation Sites. Project area - Data Report. Manuscript report to Taseko Mines Limited. Vancouver, B.C. 300 p.
- Hallam Knight Piésold Limited. 1995b. Taseko Mines Limited - Prosperity Gold-Copper Project at Fish Lake - Sport fishery Statistics from Fish Lake, British Columbia - June-October 1995. Manuscript report to Taseko Mines Limited. Vancouver, B.C. 18 p. + appendices.
- Hallam Knight Piésold Limited. 1996a. Taseko Mines Limited - Prosperity Project At Fish Lake - Fisheries Data from the Prosperity Project Area - 1995 Data Report. Manuscript report to Taseko Mines Limited. Vancouver, B.C. 4 p. + 11 appendices
- Hallam Knight Piésold Limited. 1996b. Taseko Mines Limited - Prosperity Gold-Copper Project at Fish Lake - Sport Fishery Statistics from Fish Lake, British Columbia - 1995 and 1996. Manuscript report to Taseko Mines Limited. Vancouver, B.C. 95 p.
- Hemmera Resource Consultants Ltd. 1995. Draft Project Report Specifications - Taseko Mines Limited - Fish Lake Project. Manuscript report to Manager, Mine Development Assessment Process, Ministry of Environment Lands and Parks. Victoria, B.C.
- Nagpal, N.K. 1995. Approved and working criteria for water quality - 1995. Water Quality Branch, Environmental Protection Department, Ministry of Environment Lands and Parks. Victoria, B.C. 48 p.
- Nagpal, N.K. and L.W. Pommen. 1994. Approved and working criteria for water quality - 1994. Water Quality Branch, Environmental Protection Department, Ministry of Environment Lands and Parks. Victoria, B.C. 44 p.

**TASEKO MINES LIMITED  
PROSPERITY PROJECT AT FISH LAKE**

**Appendix A**

**Metals in Fish Tissue Samples  
Collected from  
Fish Lake in 1995 and  
Beece, Groundhog and Tete Angela Creeks in 1996**

**Objectives:**

The objective of this program is to characterize levels of trace metals in fish muscle and liver tissues, in areas that may be affected by seepage or effluent from the Prosperity Project area. As of 1996, these waters include:

- Fish Lake and Fish Creek
- Little Fish Lake
- Beece Creek
- Groundhog Creek
- Tete Angela Creek
- Taseko River
- Big Lake
- Taseko River
- Wasp Lake
- Big Onion Lake

At present, neither Wasp Lake nor Big Onion Lake appear to contain fish. The Lake Files of the Ministry of Environment Lands and Parks indicate that Big Onion Lake may once have supported population of bull trout ( 'dolly varden'), at least until 1972. The population is believed to have been extirpated by overfishing sometime afterward. There is an unconfirmed report that some of the local people attempted to re-introduce rainbow trout into Big Onion Lake in 1995, but the success of this introduction is unknown.

The Ministry of Environment Lands and Parks has recommended sampling for metal levels in fish in Taseko River near Taseko Lake outlet, Taseko River near the mouth of Fish Creek, Beece Creek below Wasp Lake, and Lower Fish Creek. A rationale for this program is given in Section 1.2.12 of the *Draft Project Report Specifications for the Fish Lake Project* (Hemmera Resources Consulting Inc. 1995).

However, it has not yet been possible to collect 10 fish of every resident species in the Taseko River or Beece Creek, up to the present time. Strong currents and high turbidity make it difficult and dangerous to use beach seines, gillnets or electrofishing apparatus to collect fish from the Taseko River. In September 1995, Taseko's environmental monitors spent over 20 hours angling in Beece Creek and Taseko River, but were unable to catch any fish for tissue analysis. Although the flows of Beece Creek are much lower than the Taseko River, and the water is much clearer, fish densities in Beece Creek appear to be very low. Thus, it has not yet been possible to obtain 10 samples of every fish species resident in Beece Creek, particularly of fish that are big enough to provide a good tissue sample.

**Sample Sizes for tissue metals analysis:**

The *Draft Project Report Specifications (DPRS)* suggest that a minimum of 10 specimens for each resident species be collected at each sample site, preferably of uniform age, sex, weight for comparability of results. It has been possible to meet this requirement for some, but not all of the watersheds within the Prosperity Project area.

In 1993 and 1995, fish tissue samples for metals and MIMS analysis were collected from the following waters in the project area:

- Fish Lake (9 rainbow trout in 1993, 20 rainbow trout in 1995);
- Little Fish Lake (13 rainbow trout in 1993);
- Beece Creek, southernmost outlet (1 bull trout, 3 mountain whitefish, 3 rainbow trout in 1995)

In 1996, Triton Environmental Resource Consultants Ltd. collected fish for tissue metals analysis from the following watersheds:

- Beece Creek (10 bull trout, 3 rainbow trout, 1 mountain whitefish)
- Groundhog Creek (10 rainbow trout)
- Tete Angela Creek (10 rainbow trout)

Some of the fish collected in 1996 were small in body size, so that their livers were too small to provide enough tissue for individual analysis. For these very small fish, ASL Analytical Service Laboratories found it necessary to make up composite samples, that is, to combine the livers from two or more small fish into a single composite sample that had enough tissue to analyze. It was only necessary to make composites of liver tissues, because all of the fish were large enough to produce usable aliquots of muscle tissue that could be analyzed individually.

### Sample Preparation:

In 1995, all fish collected for metals analysis were placed in a portable cooler as soon as they were collected, and were kept refrigerated at 4° C until they could be weighed, measured and dissected in a lab at Prosperity camp. In 1995, the specimens were dissected on the evening after they were collected. During dissections, the following measures were taken to prevent contamination of the tissue samples:

- using clean surgical gloves, stainless steel dissecting tools and plastic cutting boards;
- cleaning the gloves and dissecting tools between each dissection, with at least three rinses of de-ionized water;
- using fresh plastic whirl-pack sample bags;
- doing all dissections indoors, in a dust-free environment;
- keeping muscle tissue samples free of skin and bones; and
- avoiding punctures of the G.I. tract during dissections.

As soon as each tissue specimen was dissected out, it was labelled and quick-frozen at -20 C, then kept frozen until it could be analyzed by ASL Ltd. ASL analyzed each tissue specimen for antimony, arsenic, cadmium, chromium, lead, mercury, nickel and selenium, and reported results on both a per-dry-weight and per-wet-weight basis.

In 1996, all fish specimens were collected by Triton Environmental Consultants Limited. The specimens were placed in cool storage until they could be brought back to Prosperity Camp, where they were weighed and measured, then quick-frozen and held at -20°C. The frozen specimens were flown from Prosperity camp to Vancouver, where they were delivered to ASL Laboratories, still frozen. In 1996, all tissue dissections were done at ASL Laboratories, following the protocols outlined in the *Draft Project Report Specifications* (Hemmera Resources Consulting Inc. 1995).

### Quality Assurance/Quality Control

The results of QA/QC analyses are appended to this data report. ASL implemented the following Quality Assurance /Quality Control (QA/QC) measures in the analysis of fish tissues from the Prosperity area:

- the use of method blanks
- the use of three separate Certified Reference Materials from the National research Council of Canada, which were:
  - DORM-1 (dogfish muscle tissue)
  - DOLT-2 (dogfish liver tissue)
  - TORT lobster hepatopancreas

Owing to the small size of specimens, no lab replicates were conducted on muscle tissue samples.



**Minimum Detection Limits:**

Table C, Section 1.2.12 of the *Draft Project Report Specifications* outlines guidelines for minimum detection limits for metals in fish tissues, as recommended by the Ministry of Environment Lands and Parks (MELP). In its analysis of metals in fish tissues, ASL Ltd. has met or bettered these guidelines for all parameters, except for total cadmium. For total cadmium, ASL's method detection limits were 0.03 µg/g, while MELP recommended a minimum detection limit of 0.02 µg/g wet weight. In either case, the detection limits were about one-tenth of the BC criterion for cadmium in fish tissues. This difference does not pose a serious difficulty, because this criterion was never exceeded in any of the fish tissue samples collected from the Prosperity Project area.

**Criteria for Metal Levels in Fish Tissues**

Nagpal and Pommen (1994) and Nagpal (1995) suggest criteria for acceptable levels of trace metals in fish tissues. The BC Criteria are reported in all of the statistical summary tables of this data report. The number of exceedences of these criteria are also reported in the summary tables, and exceedences are high-lighted by a box.

To date, none of the fish tissue samples taken from the Prosperity area exceed the BC Criteria for total arsenic, total cadmium, or total lead. There are presently no BC Criteria for total antimony, total chromium or total nickel in fish tissues, although MELP has stipulated that these parameters be analyzed.

There are several instances when total mercury or total selenium in fish tissues from the Prosperity area were above the BC Criteria. All of these exceedences appear to be due to natural, not man-induced, phenomena:

Fish Lake, July 1995, rainbow trout

- 7 / 19 liver tissue samples were above the BC criterion for mercury
- 5 / 19 liver tissue samples were above the BC criterion for selenium
- 4 / 20 muscle tissue samples were above the BC criterion for mercury

Beece Creek, August 1995, rainbow trout

- 2 / 2 liver composite samples were above the BC criterion for selenium

Beece Creek, September 1996, rainbow trout

- 3 / 3 liver tissue samples were above the BC criterion for selenium

Beece Creek, August 1995, bull trout

1 / 1 liver tissue samples was above the BC criterion for mercury

1 / 1 muscle tissue samples was above the BC criterion for mercury

Beece Creek, August 1995, mountain whitefish

1 / 2 liver tissue samples was above the BC criterion for selenium

Beece Creek, September 1996, mountain whitefish

1 / 1 liver tissue samples was above the BC criterion for selenium

Groundhog Creek, September 1996, rainbow trout

1 / 10 muscle tissue samples was above the BC criterion for mercury

Exceedences in liver tissue samples may be somewhat less of a concern, because fish livers are not ordinarily consumed by humans, but are discarded with the guts when the fish are cleaned. However, the liver is the site where the most active uptake and depuration of metals occurs. There may also be concern about the bio-accumulation of mercury or selenium in fish-eating mammals and birds.

Exceedences in fish muscle tissue may indicate a greater human health concern, particularly if large amounts of fish are consumed. Nagpal (1995) gives the following tissue residue criteria for mercury when the human diet is primarily fish or shellfish. It indicates an inverse relationship between the mercury concentrations and the amount of fish that may be safely consumed. Four of the 20 fish collected from Fish Lake in 1995 had muscle mercury levels that were within the spectrum addressed by the table below.

**Tissue residue criteria for mercury when the diet is primarily fish or shellfish\*.**  
Source: Nagpal (1995, Table 15).

<b>Concentration of total mercury in edible portion of fish and shellfish (µg Hg/g wet weight)</b>	<b>Safe quantity for weekly consumption on regular basis (g wet weight)</b>
0.5	210
0.4	260
0.3	350
0.2	525
0.1	1,050

\* The maximum concentration of total Hg in the edible portion of fish/shellfish should not exceed 0.5 µg/g wet weight. For people whose diet is based primarily on fish or shellfish, this criterion may need to be varied as indicated above.

TASEKO MINES LIMITED  
PROSPERITY PROJECT AT FISH LAKE

FISH COLLECTED FOR METALS ANALYSIS  
BY HALLAM KNIGHT PIESOLD LTD. FROM 26 JULY - 1 AUGUST 1995  
FROM FISH LAKE AND BEECE CREEK

Specimen Number	Species	Locality	Date	Fork length mm	Weight, grams	Age, yr (scales)	Sex	Liver weight, g	Gonad weight, g	Gonad l x w, mm	Reproductive Condition	Remarks
95-1	Rainbow Trout	Fish Lake	26-Jul-95	274	170.9	4	F	2.2	1.5	53 x 6	Mature	Caught with gillnet
95-2	Rainbow Trout	Fish Lake	26-Jul-95	257	178.7	3	M	2.2	0.8	33 x 6	Mature	Caught with gillnet
95-3	Rainbow Trout	Fish Lake	26-Jul-95	243	151.5	3	F	1.9	1.7	52 x 10	Mature	Caught with gillnet
95-4	Rainbow Trout	Fish Lake	26-Jul-95	239	143.4	3	F	1.4	1.39	56 x 8	Mature	Caught with gillnet
95-5	Rainbow Trout	Fish Lake	26-Jul-95	235	140.7	4	F	1.2	1.7	39 x 11	Mature	Caught with gillnet
95-6	Rainbow Trout	Fish Lake	26-Jul-95	244	147.6	4	F	2.0	1.9	91 x 7	Mature	Caught with gillnet
95-7	Rainbow Trout	Fish Lake	26-Jul-95	260	176.8	3	F	2.5	1.8	88 x 8	Mature	Caught with gillnet
95-8	Rainbow Trout	Fish Lake	26-Jul-95	233	134.4	3	F	1.6	1.3	38 x 7	Mature	Caught with gillnet
95-9	Rainbow Trout	Fish Lake	26-Jul-95	244	146.5	4	M	1.9	0.29	27 X 3	Mature	Caught with gillnet
95-10	Rainbow Trout	Fish Lake	26-Jul-95	232	131.1	3	F	1.5	1.4	41 x 5	Mature	Caught with gillnet
95-11	Rainbow Trout	Fish Lake	26-Jul-95	251	172.4	4	M	2.0	0.1	52 x 3	Mature	Caught with gillnet
95-12	Rainbow Trout	Fish Lake	26-Jul-95	251	155.5	3	F	2.7	1.4	59 x 7	Mature	Caught with gillnet
95-13	Rainbow Trout	Fish Lake	26-Jul-95	252	157.9	4	F	2.2	1.9	52 x 8	Mature	Caught with gillnet
95-14	Rainbow Trout	Fish Lake	26-Jul-95	250	150.0	3	F	2.0	1.9	52 x 8	Mature	Caught with gillnet
95-15	Rainbow Trout	Fish Lake	26-Jul-95	236	129.6	4	F	1.9	0.3	29 x 3	Mature	Caught with gillnet
95-16	Rainbow Trout	Fish Lake	26-Jul-95	264	197.7	3	M	2.0	0.4	36 x 5	Mature	Caught with gillnet
95-17	Rainbow Trout	Fish Lake	26-Jul-95	249	171.2	3	F	2.2	2.2	56 x 8	Mature	Caught with gillnet
95-18	Rainbow Trout	Fish Lake	26-Jul-95	229	133.5	3	M	1.7	0.1	20 x 2	Mature	Caught with gillnet
95-19	Rainbow Trout	Fish Lake	26-Jul-95	241	138.0	3	F	1.6	1.3	32 x 5	Mature	Caught with gillnet
95-20	Rainbow Trout	Fish Lake	26-Jul-95	224	134.9	3	F	1.5	0.1	20 X 3	Mature	Caught with gillnet
95-128	Bull Trout	Beece Creek, mouth of south branch	30-Jul-95	368	480.6	4	F	6.9	3.1		Maturing	
95-129	Mountain Whitefish	Beece Creek, mouth of south branch	30-Jul-95	276	245.1	11	F	2.8	6.5		Mature	
95-130	Mountain Whitefish	Beece Creek, mouth of south branch	30-Jul-95	232	148.8	8	M	1.1	3.3		Mature	Damaged liver
95-131	Mountain Whitefish	Beece Creek, mouth of south branch	30-Jul-95	213	98.7	5	F	0.7	0.8		Immature	
95-132	Rainbow Trout	Beece Creek, mouth of south branch	30-Jul-95	135	32.4	2	M	0.3	0.0		Immature	
95-133	Rainbow Trout	Beece Creek, mouth of south branch	30-Jul-95	109	17.4	1	U	0.1	0.0		Immature	
95-134	Rainbow Trout	Beece Creek, mouth of south branch	30-Jul-95	97	8.8	1	U	0.1	0.0		Immature	

TASEKO MINES LIMITED  
PROSPERITY PROJECT AT FISH LAKE

FISH COLLECTED FOR METALS ANALYSIS  
BY TRITON ENVIRONMENTAL CONSULTING LTD. FROM 11 - 15 SEPT 1996

Specimen Number	Species	Locality	Date	Fork length mm	Weight, grams (from scales)	Age, yr	Sex	Liver weight, g	Gonad weight, g	Gonad Size, mm	Reproductive Condition	Remarks
96-1	Mountain Whitefish	Beece Creek - Site 18	11-Sep-96	232	175.2	7	M	0.900	12.5	94 x 16	Mature	Scales mostly regenerate
96-2	Bull Trout	Beece Creek - Site 18	11-Sep-96	120	19.1	2	U	0.197	---	---	Juvenile	Gonads too small to dissect out
96-3	Bull Trout	Beece Creek - Site 18	11-Sep-96	112	15.2	2	U	0.114	---	---	Juvenile	Gonads too small to dissect out
96-4	Bull Trout	Beece Creek - Site 18	11-Sep-96	104	12.5	1	U	0.101	---	---	Juvenile	Gonads too small to dissect out
96-5	Bull Trout	Beece Creek - Site 18	11-Sep-96	104	11.0	1	U	0.080	---	---	Juvenile	Gonads too small to dissect out
96-6	Bull Trout	Beece Creek - Site 27	11-Sep-96	111	12.6	1	U	0.095	---	---	Juvenile	Gonads too small to dissect out
96-7	Bull Trout	Beece Creek - Site 31	14-Sep-96	127	24.3	2	U	0.203	---	---	Juvenile	Gonads too small to dissect out
96-8	Bull Trout	Beece Creek - Site 31	14-Sep-96	150	33	1	U	0.336	---	---	Juvenile	Gonads too small to dissect out
96-9	Bull Trout	Beece Creek - Site 31	14-Sep-96	187	61	1	U	0.655	---	---	Juvenile	Gonads too small to dissect out
96-10	Bull Trout	Beece Creek - Site 31	14-Sep-96	127	19	2	U	0.158	---	---	Juvenile	Gonads too small to dissect out
96-11	Bull Trout	Beece Creek - Site 31	14-Sep-96	146	35.5	1	U	0.351	---	---	Juvenile	Gonads too small to dissect out
96-12	Rainbow Trout	Tete Angela # 1	15-Sep-96	175	56.4	2	M	0.591	3.00	67 x 10	Maturing	Scales mostly regenerate
96-13	Rainbow Trout	Tete Angela # 2	15-Sep-96	183	56.9	2	F	0.404	0.20	22 x 4	Maturing	
96-14	Rainbow Trout	Tete Angela # 3	15-Sep-96	152	39	1	M	0.351	1.60	63 x 8	Maturing	Poor scale sample
96-15	Rainbow Trout	Tete Angela # 4	15-Sep-96	168	57.5	2	F	0.387	3.20	55 x 11	Maturing	
96-16	Rainbow Trout	Tete Angela # 5	15-Sep-96	154	38.6	1	M	0.370	2.20	57 x 11	Maturing	
96-17	Rainbow Trout	Tete Angela # 6	15-Sep-96	185	70.7	2	F	0.463	3.60	60 x 14	Maturing	
96-18	Rainbow Trout	Tete Angela # 7	15-Sep-96	154	40.7	1	M	0.195	2.20	60 x 11	Maturing	
96-19	Rainbow Trout	Tete Angela # 8	15-Sep-96	167	45.4	2	M	0.279	2.10	64 x 10	Maturing	
96-20	Rainbow Trout	Tete Angela # 9	15-Sep-96	161	42.4	1	M	0.277	1.50	60 x 8	Maturing	
96-21	Rainbow Trout	Tete Angela # 10	15-Sep-96	174	51.9	2	M	0.337	2.50	55 x 15	Maturing	Scales mostly regenerate
96-22	Rainbow Trout	Groundhog Creek # 1	15-Sep-96	188	76.2	2	F	0.710	2.50	40 x 13	Maturing	
96-23	Rainbow Trout	Groundhog Creek # 2	15-Sep-96	141	28.4	1	F	0.246	0.10	30 x 2.5	Maturing	
96-24	Rainbow Trout	Groundhog Creek # 3	15-Sep-96	195	62.1	2	F	0.392	1.30	55 x 10	Maturing	
96-25	Rainbow Trout	Groundhog Creek # 4	15-Sep-96	187	67.1	2	M	0.495	2.30	54 x 12	Maturing	
96-26	Rainbow Trout	Groundhog Creek # 5	15-Sep-96	135	31.5	2	M	0.156	1.60	45 x 10	Maturing	
96-27	Rainbow Trout	Groundhog Creek # 6	15-Sep-96	180	59.1	2	M	0.584	2.50	60 x 13	Maturing	
96-28	Rainbow Trout	Groundhog Creek # 7	15-Sep-96	168	53.1	1	F	0.493	1.90	46 x 9	Maturing	
96-29	Rainbow Trout	Groundhog Creek # 8	15-Sep-96	160	49.6	2	F	0.525	1.50	50 x 10	Maturing	
96-30	Rainbow Trout	Groundhog Creek # 9	15-Sep-96	158	45.8	1	M	0.321	2.00	60 x 11	Maturing	
96-31	Rainbow Trout	Groundhog Creek # 10	15-Sep-96	175	66.1	3	M	0.533	2.30	62 x 12	Maturing	
96-32	Rainbow Trout	Beece Creek	19-Oct-96	215 not measured		---	U	---	---	---		Not measured by ASL
96-33	Rainbow Trout	Beece Creek	19-Oct-96	175	69.1	---	U	---	---	---		Not measured by ASL
96-34	Rainbow Trout	Beece Creek	19-Oct-96	216	155.9	---	U	---	---	---		Not measured by ASL

NOTES:

- 1) Fish for metals analysis collected by Bruce Ford, Triton Environmental consultants Ltd.
- 2) Dissection and analysis of fish tissues by ASL Ltd. on frozen whole fish specimens: contact Heather Ross, ASL Ltd.
- 3) Metals analysis by ASL Ltd., contact: Heather Ross, ASL Ltd.
- 4) Age determination from scales analyzed by North-South Consultants Ltd.: contact: Don MacDonell

TASEKO MINES LIMITED - PROSPERITY PROJECT  
 METALS IN FISH TISSUES - FISH LAKE - 26 JULY 1995  
**RAINBOW TROUT - MUSCLE TISSUE**

VALUES EXPRESSED AS mg/Kg (ppm) WET WEIGHT BASIS

Species Code	Rainbow Fish Lake 95-1	Rainbow Fish Lake 95-2	Rainbow Fish Lake 95-3	Rainbow Fish Lake 95-4	Rainbow Fish Lake 95-5	Rainbow Fish Lake 95-6	Rainbow Fish Lake 95-7	Rainbow Fish Lake 95-8	Rainbow Fish Lake 95-9	Rainbow Fish Lake 95-10	Rainbow Fish Lake 95-11	Rainbow Fish Lake 95-12	Rainbow Fish Lake 95-13	Rainbow Fish Lake 95-14	Rainbow Fish Lake 95-15	Rainbow Fish Lake 95-16	Rainbow Fish Lake 95-17	Rainbow Fish Lake 95-18	Rainbow Fish Lake 95-19	Rainbow Fish Lake 95-20
Location Code	Muscle																			
Specimen No.	Muscle																			
Type of Tissue	Wet Weight	Wet Weight	Wet Weight	Wet Weight	Wet Weight	Wet Weight	Wet Weight	Wet Weight	Wet Weight	Wet Weight	Wet Weight	Wet Weight	Wet Weight	Wet Weight	Wet Weight	Wet Weight	Wet Weight	Wet Weight	Wet Weight	Wet Weight
Physical Tests																				
Moisture %	77.3	78.5	81.9	80.1	78.8	77.7	77.3	80.1	79.3	80.1	78	80	78.7	77.1	76.6	76.9	77.7	78.8	76.8	79
Total Metals																				
Antimony T-Sb	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Arsenic T-As	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Cadmium T-Cd	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03
Chromium T-Cr	0.08	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	0.07	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Lead T-Pb	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Mercury T-Hg	0.085	0.060	0.094	0.067	0.056	0.101	0.074	0.124	0.052	0.090	0.045	0.153	0.093	0.095	0.082	0.087	0.083	0.078	0.098	0.107
Nickel T-Ni	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	0.05	<0.05	<0.05	0.07	<0.05	<0.05	<0.05
Selenium T-Se	<0.10	0.10	0.12	0.14	<0.10	<0.10	0.17	0.15	0.20	0.13	0.12	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	0.17	<0.10	<0.10

NOTES:

BC Criteria for metals in fish flesh are expressed on a wet weight basis, not a dry weight basis  
 See additional comments and notes appended to ASL WO# F2850  
 Dissection of tissues and gonads by D. Karasiuk - Hallam Knight Piesold Ltd.  
 Analysis of metals in muscle and liver tissues by ASL Ltd.  
 Age of specimens based on scales analyzed by North-South Consultants Ltd., Winnipeg  
 <D L. = below the detection limit for this parameter

TASEKO MINES LIMITED - PROSPERITY PROJECT  
 METALS IN FISH TISSUES - FISH LAKE - 26 JULY 1995

**RAINBOW TROUT - MUSCLE TISSUE  
 STATISTICAL SUMMARY**

VALUES EXPRESSED AS mg/Kg (ppm) WET WEIGHT BASIS

	Number of Samples	Average mg/Kg	Minimum mg/Kg	Maximum mg/Kg	Standard Deviation	Detection Limit (D.L.) mg/Kg	Number below D.L.	BC Criterion, fish tissues mg/Kg wet weight	Number of Samples exceeding the BC Criterion	Remarks
Physical Tests										
Moisture %	20	78.54	76.60	81.90	1.41					
Total Metals										
Antimony T-Sb	20	<D.L.	<D.L.	<D.L.		<0.05	20	No criterion	0	<b>INTEPRETATION</b>  4 samples exceeded the BC Criterion for MERCURY in fish consumed by humans The other parameters met the 1995 BC Criteria.
Arsenic T-As	20	<D.L.	<D.L.	<D.L.		<0.05	20	3.5	0	
Cadmium T-Cd	20	<D.L.	<D.L.	<D.L.		<0.03	20	0.9	0	
Chromium T-Cr	20	<D.L.	<D.L.	0.08		<0.05	18	No criterion	0	
Lead T-Pb	20	<D.L.	<D.L.	<D.L.		<0.05	20	0.8	0	
Mercury T-Hg	20	0.086	0.045	0.153	0.025	<0.005	0	0.1	4	
Nickel T-Ni	20	<D.L.	<D.L.	0.07		<0.05	18	No criterion	0	
Selenium T-Se	20	0.09	0.05	0.20	0.05	<0.10	11	3	0	

NOTES:

BC Criteria for metals in fish flesh are expressed on a wet weight basis, not a dry weight basis  
 See additional comments and notes appended to ASL WO# F2850  
 Dissection of tissues and gonads by D. Karasiuk - Hallam Knight Piesold Ltd.  
 Analysis of metals in muscle and liver tissues by ASL Ltd.  
 Age of specimens based on scales analyzed by North-South Consultants Ltd., Winnipeg  
 <D.L. = below the detection limit for this parameter

TASEKO MINES LIMITED - PROSPERITY PROJECT  
 METALS IN FISH TISSUES - FISH LAKE - 26 JULY 1995  
**RAINBOW TROUT - LIVER TISSUE**

VALUES EXPRESSED AS mg/Kg (ppm) WET WEIGHT BASIS

Species Code	Rainbow Fish Lake 95-1	Rainbow Fish Lake 95-2	Rainbow Fish Lake 95-3	Rainbow Fish Lake 95-4	Rainbow Fish Lake 95-5	Rainbow Fish Lake 95-6	Rainbow Fish Lake 95-7	Rainbow Fish Lake 95-8	Rainbow Fish Lake 95-9	Rainbow Fish Lake 95-10	Rainbow Fish Lake 95-12	Rainbow Fish Lake 95-13	Rainbow Fish Lake 95-14	Rainbow Fish Lake 95-15	Rainbow Fish Lake 95-16	Rainbow Fish Lake 95-17	Rainbow Fish Lake 95-18	Rainbow Fish Lake 95-19	Rainbow Fish Lake 95-20	
Location Code	Fish Lake	Fish Lake	Fish Lake	Fish Lake	Fish Lake	Fish Lake	Fish Lake	Fish Lake	Fish Lake	Fish Lake	Fish Lake	Fish Lake	Fish Lake	Fish Lake	Fish Lake	Fish Lake	Fish Lake	Fish Lake	Fish Lake	
Specimen No.	95-1	95-2	95-3	95-4	95-5	95-6	95-7	95-8	95-9	95-10	95-12	95-13	95-14	95-15	95-16	95-17	95-18	95-19	95-20	
Type of Tissue	Liver	Liver	Liver	Liver	Liver	Liver	Liver	Liver	Liver	Liver	Liver	Liver	Liver	Liver	Liver	Liver	Liver	Liver	Liver	
	Wet Weight	Wet Weight	Wet Weight	Wet Weight	Wet Weight	Wet Weight	Wet Weight	Wet Weight	Wet Weight	Wet Weight	Wet Weight	Wet Weight	Wet Weight	Wet Weight	Wet Weight	Wet Weight	Wet Weight	Wet Weight	Wet Weight	
<b>Physical Tests</b>																				
Moisture %	80.2	79.8	79	80.2	80.2	83.8	79.4	80.2	81.4	80.2	79.4	80.2	80.2	80.2	80.2	81.2	80.2	80.2	80.2	
<b>Total Metals</b>																				
Antimony T-Sb	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	
Arsenic T-As	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	
Cadmium T-Cd	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	
Chromium T-Cr	0.06	0.05	0.07	0.1	0.08	0.06	<0.05	0.07	0.06	0.07	0.06	<0.05	<0.05	<0.05	<0.05	0.07	<0.05	<0.03	<0.03	
Lead T-Pb	<0.05	<0.05	<0.05	<0.05	0.08	<0.05	<0.05	<0.05	<0.05	0.14	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	0.06	0.07	0.07	
Mercury T-Hg	0.09	0.056	0.087	0.075	0.066	0.100	0.064	0.125	0.072	0.098	0.123	0.085	0.102	0.076	0.127	0.091	0.095	0.137	0.144	
Nickel T-Ni	0.06	0.05	<0.05	0.1	<0.05	<0.05	<0.05	<0.05	0.06	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	0.06	0.06	<0.05	<0.05	
Selenium T-Se	0.80	1.49	1.78	2.33	0.48	2.06	1.71	5.35	4.21	1.83	0.97	0.59	2.64	2.66	3.78	4.18	5.60	1.37	1.67	

NOTES:

BC Criteria for metals in fish flesh are expressed on a wet weight basis, not a dry weight basis  
 See additional comments and notes appended to ASL WO# F2850  
 Dissection of tissues and gonads by D. Karasiuk - Halfam Knight Piesold Ltd.  
 Analysis of metals in muscle and liver tissues by ASL Ltd.  
 Age of specimens based on scales analyzed by North-South Consultants Ltd., Winnipeg  
 <D.L. = below the detection limit for this parameter

TASEKO MINES LIMITED - PROSPERITY PROJECT  
 METALS IN FISH TISSUES - FISH LAKE - 26 JULY 1995

**RAINBOW TROUT - LIVER TISSUE  
 STATISTICAL SUMMARY**

VALUES EXPRESSED AS mg/Kg (ppm) WET WEIGHT BASIS

	Number of Samples	Average mg/Kg	Minimum mg/Kg	Maximum mg/Kg	Standard Deviation	Detection Limit (D.L.) mg/Kg	Number below D.L.	BC Criterion, fish tissues mg/Kg wet weight	# of Samples exceeding BC Criterion	Remarks
Physical Tests										
Moisture %	19.00	2.39	0.48	5.60	1.54					
Total Metals										
Antimony T-Sb	19	<D.L.	<D.L.	<D.L.		<0.05	19	No criterion	0	
Arsenic T-As	19	<D.L.	<D.L.	<D.L.		<0.05	19	3.5	0	
Cadmium T-Cd	19	<D.L.	<D.L.	<D.L.		<0.03	19	0.9	0	
Chromium T-Cr	19	0.057	<D.L.	0.10	0.022	<0.05	5	No criterion	0	
Lead T-Pb	19	<D.L.	<D.L.	0.140		<0.05	16	0.8	0	
Mercury T-Hg	19	0.095	0.056	0.144	0.026	<0.005	0	0.10	7	
Nickel T-Ni	19	<D.L.	<D.L.	0.100		<0.05	13	No criterion	0	
Selenium T-Se	19	2.39	0.48	5.60	1.54	<0.10	0	3.0	5	

**INTEPRETATION**

**7 samples exceeded the minimum  
 BC Criterion for MERCURY  
 5 samples exceeded the  
 BC Criterion for SELENIUM  
 The other parameters met  
 the 1995 BC Criteria.**

NOTES

BC Criteria for metals in fish flesh are expressed on a wet weight basis, not a dry weight basis  
 See additional comments and notes appended to ASL WO# F2850  
 Dissection of tissues and gonads by D. Karasiuk - Hallam Knight Piesold Ltd.  
 Analysis of metals in muscle and liver tissues by ASL Ltd  
 Age of specimens based on scales analyzed by North-South Consultants Ltd., Winnipeg  
 <D.L. = below the detection limit for this parameter



TASEKO MINES LIMITED - PROSPERITY PROJECT  
 METALS IN FISH TISSUES - SOUTHERNMOST OUTLET OF BEECE CREEK - 30 JULY-AUGUST 1995

**RAINBOW TROUT - LIVER AND MUSCLE TISSUE**

VALUES EXPRESSED AS mg/Kg (ppm) WET WEGHT BASIS

Species Code Location Code Specimen No.	Rainbow T. Beece Cr. 95-132, 133 and 95-134	Rainbow T. Beece Cr. 95-132, 133 and 95-134	Number of Samples	Detection Limit (D.L.) mg/Kg	Number below D.L.	BC Criterion, fish tissues mg/Kg	Number of Samples exceeding the BC Criterion
Type of tissue	Composite Muscle Wet Weight	Composite Liver Wet Weight					
Moisture %	78.6	78.6	2				
Total Metals							
Antimony T-Sb	<0.05	<0.05	2	<0.05	2	No criterion	0
Arsenic T-As	<0.05	0.12	2	<0.05	1	3.5	0
Cadmium T-Cd	<0.03	0.1	2	<0.03	1	0.9	0
Chromium T-Cr	0.22	0.24	2	<0.05	0	No criterion	0
Lead T-Pb	<0.05	<0.05	2	<0.05	2	0.8	0
Mercury T-Hg	0.018	0.024	2	<0.005	0	0.100	0
Nickel T-Ni	<0.05	<0.05	2	<0.05	2	No criterion	0
Selenium T-Se	0.72	4.35	2	<0.10	0	3.0	1

**INTEPRETATION**

Sample size was small, and the individual fish were so small that they had to be composited. The composite liver sample exceeded the minimum BC Criterion for SELENIUM in fish consumed by humans.

NOTES:

BC Criteria for metals in fish flesh are expressed on a wet weight basis, not a dry weight basis  
 See additional comments and notes appended to ASL WO# F2850  
 Dissection of tissues and gonads by D. Karasiuk - Hallam Knight Piesold Ltd.  
 Analysis of metals in muscle and liver tissues by ASL Ltd.  
 Age of specimens based on scales analyzed by North-South Consultants Ltd., Winnipeg  
 <D.L. = below the detection limit for this parameter  
 Only three small specimens were caught  
 The specimens were so small that they had to be composited.

TASEKO MINES LIMITED - PROSPERITY PROJECT  
 METALS IN FISH TISSUES - SOUTHERNMOST OUTLET OF BEECE CREEK - 30 JULY 1995

**BULL TROUT - LIVER AND MUSCLE TISSUE**

VALUES EXPRESSED AS mg/Kg (ppm) WET WEIGHT BASIS

Species Code	Bull Trout	Bull Trout	Detection	Number	BC Criterion,	Number of	Remarks
Location Code	Beece Ck.	Beece Ck.	Limit (D.L.)	below D.L.	fish tissues	Samples	
Specimen No.	95-128	95-128	mg/Kg		mg/Kg	exceeding the	
Type of Tissue	Liver	Muscle			wet weight	BC Criterion	
	Wet Weight	Wet Weight					

Physical Tests

Moisture %	79.2	80.2
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Total Metals

Antimony T-Sb	<0.05	<0.05	<0.05	2	No criterion	0
Arsenic T-As	<0.05	<0.05	<0.05	2	3.5	0
Cadmium T-Cd	<0.03	<0.03	<0.03	2	0.9	0
Chromium T-Cr	0.06	<0.05	<0.05	1	No criterion	0
Lead T-Pb	<0.05	<0.05	<0.05	2	0.8	0
Mercury T-Hg	0.171	0.136	<0.005	0	0.100	2
Nickel T-Ni	<0.05	<0.05	<0.05	2	No criterion	0
Selenium T-Se	0.90	0.28	<0.10	0	3.0	0

**INTEPRETATION**  
 Sample size was small, because  
 only one fish was analyzed.  
 Both liver and muscle tissues  
 exceeded the minimum  
 BC Criterion for MERCURY  
 in fish consumed by humans.

NOTES:

BC Criteria for metals in fish flesh are expressed on a wet weight basis, not a dry weight basis  
 See additional comments and notes appended to ASL WO# F2850  
 Dissection of tissues and gonads by D. Karasiuk - Hallam Knight Piesold Ltd.  
 Analysis of metals in muscle and liver tissues by ASL Ltd.  
 Age of specimens based on scales analyzed by North-South Consultants Ltd., Winnipeg  
 <D.L. = below the detection limit for this parameter  
 Only one specimen was caught

TASEKO MINES LIMITED - PROSPERITY PROJECT  
 METAL IN FISH TISSUES - SOUTHERNMOST OUTLET OF BEECE CREEK - 30 JULY 1995

**MOUNTAIN WHITEFISH - MUSCLE TISSUE**

VALUES EXPRESSED AS mg/Kg (ppm) WET WEGHT BASIS

Species Code	Mountain Whitefish	Mountain Whitefish	Mountain Whitefish	Number of Samples	Detection Limit (D.L.)	Number below D.L.	BC Criterion, fish tissues mg/Kg wet weight	Number of Samples exceeding the BC Criterion
Location Code	Beece Cr.	Beece Cr.	Beece Cr.					
Specimen No.	95-129	95-130	95-131					
Type of tissue	Muscle Wet Weight	Muscle Wet Weight	Muscle Wet Weight					
Physical Tests								
Moisture %	79.4	78.6	78.6	3				
Total Metals								
Antimony T-Sb	<0.05	<0.05	<0.05	3	<0.05	3	No criterion	0
Arsenic T-As	<0.05	<0.05	<0.05	3	<0.05	3	3.5	0
Cadmium T-Cd	<0.03	<0.03	<0.03	3	<0.03	3	0.9	0
Chromium T-Cr	0.18	<0.05	0.10	3	<0.05	1	No criterion	0
Lead T-Pb	<0.05	<0.05	<0.05	3	<0.05	3	0.8	0
Mercury T-Hg	0.048	0.061	0.040	3	<0.005	0	0.100	0
Nickel T-Ni	<0.05	<0.05	<0.05	3	<0.05	3	No criterion	0
Selenium T-Se	0.54	0.45	1.06	3	<0.10	0	3.0	0

**INTEPRETATION**  
 Sample size is small, because only 3 samples were analyzed. All muscle tissues samples were below the 1995 BC Criteria for fish consumed by humans.

NOTES:

BC Criteria for metals in fish flesh are expressed on a wet weight basis, not a dry weight basis  
 See additional comments and notes appended to ASL WO# F2850  
 Dissection of tissues and gonads by D. Karasiuk - Hallam Knight Piesold Ltd.  
 Analysis of metals in muscle and liver tissues by ASL Ltd.  
 Age of specimens based on scales analyzed by North-South Consultants Ltd., Winnipeg  
 <D.L. = below the detection limit for this parameter  
 Only three small specimens were caught

TASEKO MINES LIMITED - PROSPERITY PROJECT  
 METAL IN FISH TISSUES - SOUTHERNMOST OUTLET OF BEECE CREEK - 30 JULY 1995

**MOUNTAIN WHITEFISH - LIVER TISSUE**

VALUES EXPRESSED AS mg/Kg (ppm) WET WEGHT BASIS

Species Code	Mountain Whitefish	Mountain Whitefish	Number of Samples	Detection Limit (D.L.) mg/Kg	Number below D.L.	BC Criterion, mg/Kg fish tissues exceeding the wet weight	Number of Samples exceeding the BC Criterion
Location Code	Beece Cr.	Beece Cr.					
Specimen No.	95-129	95-130, 131					
Type of tissue	Liver	Composite					
	Wet Weight	Wet Weight					

Physical Tests

Moisture %	80	78.6	2				
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Total Metals

Antimony T-Sb	<0.05	<0.05	2	<0.05	2	No criterion	0
Arsenic T-As	0.12	0.20	2	<0.05	0	3.5	0
Cadmium T-Cd	0.11	0.10	2	<0.03	0	0.9	0
Chromium T-Cr	0.06	0.09	2	<0.05	0	No criterion	0
Lead T-Pb	<0.05	<0.05	2	<0.05	2	0.8	0
Mercury T-Hg	0.041	0.061	2	<0.005	0	0.100	0
Nickel T-Ni	<0.05	0.07	2	<0.05	1	No criterion	0
Selenium T-Se	1.87	3.23	2	<0.10	0	3.0	1

**INTEPRETATION**  
 Sample size is small, because only two samples were analyzed. The composite liver sample exceeded the minimum BC Criterion for SELENIUM in fish consumed by humans,

NOTES:

BC Criteria for metals in fish flesh are expressed on a wet weight basis, not a dry weight basis  
 See additional comments and notes appended to ASL WO# F2850  
 Dissection of tissues and gonads by D. Karasiuk - Hallam Knight Piesold Ltd.  
 Analysis of metals in muscle and liver tissues by ASL Ltd.  
 Age of specimens based on scales analyzed by North-South Consultants Ltd., Winnipeg  
 <D.L. = below the detection limit for this parameter  
 Only three small specimens were caught

TASEKO MINES LIMITED - PROSPERITY PROJECT  
 METAL IN FISH TISSUES - SOUTHERNMOST OUTLET OF BEECE CREEK - 30 JULY 1995

**MOUNTAIN WHITEFISH - LIVER TISSUE**

VALUES EXPRESSED AS mg/Kg (ppm) WET WEGHT BASIS

Species Code	Mountain Whitefish Beece Cr.	Mountain Whitefish Beece Cr.	Number of Samples	Detection Limit (D.L.) mg/Kg	Number below D.L.	BC Criterion, fish tissues mg/Kg wet weight	Number of Samples xceeding the BC Criterion
Location Code	95-129	95-130, 131					
Specimen No.							
Type of tissue	Liver Wet Weight	Composite Liver Wet Weight					

Physical Tests

Moisture %	80	78.6	2				
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Total Metals

Antimony T-Sb	<0.05	<0.05	2	<0.05	2	No criterion	0
Arsenic T-As	0.12	0.20	2	<0.05	0	3.5	0
Cadmium T-Cd	0.11	0.10	2	<0.03	0	0.9	0
Chromium T-Cr	0.06	0.09	2	<0.05	0	No criterion	0
Lead T-Pb	<0.05	<0.05	2	<0.05	2	0.8	0
Mercury T-Hg	0.041	0.061	2	<0.005	0	0.100	0
Nickel T-Ni	<0.05	0.07	2	<0.05	1	No criterion	0
Selenium T-Se	1.87	3.23	2	<0.10	0	3.0	1

**INTEPRETATION**  
 Sample size is small, because  
 only two samples were analyzed.  
 The composite liver sample  
 exceeded the minimum  
 BC Criterion for SELENIUM  
 in fish consumed by humans,

NOTES:

BC Criteria for metals in fish flesh are expressed on a wet weight basis, not a dry weight basis  
 See additional comments and notes appended to ASL WO# F2850  
 Dissection of tissues and gonads by D. Karasiuk - Hallam Knight Piesold Ltd.  
 Analysis of metals in muscle and liver tissues by ASL Ltd.  
 Age of specimens based on scales analyzed by North-South Consultants Ltd., Winnipeg  
 <D.L. = below the detection limit for this parameter  
 Only three small specimens were caught

TASEKO MINES LIMITED - PROSPERITY PROJECT  
 METALS IN FISH TISSUES - BEECE CREEK, GROUNDHOG CREEK, AND TETE ANGELA CREEK - 1996

RAINBOW TROUT - BEECE CREEK				MUSCLE TISSUE										
Species	RBTR	RBTR	RBTR	Number	Average	Minimum	Maximum	Standard	Detection	Number	BC Criterion,	Number of	Remarks	
Locality	Beece Cr.	Beece Cr.	Beece Cr.	of Samples	Value, mg/Kg	Value, mg/Kg	Value, mg/Kg	Deviation	Limit, D.L.	below D.L.	consumption	Samples		
Collector's Number	96-32	96-33	96-34								by humans	above the		
Type of Tissue	Muscle	Muscle	Muscle								mg/Kg	BC Criterion		
Composite Sample?											wet weight			
Date	19 OCT 96	19 OCT 96	19 OCT 96											
% Moisture in tissue sample	78.8	79.3	76.7	3	78.3	76.7	79.3	1.38						
Total Metals, mg/wet weight kg == ppm wet weight														
Antimony T-Sb	<0.05	<0.05	<0.05	3	< D.L.	< D.L.	< D.L.		<0.05	3	No criterion	0	INTERPRETATION:  All samples in this series met the 1995 BC Criteria for safe consumption by humans or wildlife for the parameters tested	
Arsenic T-As	<0.05	<0.05	<0.05	3	< D.L.	< D.L.	< D.L.		<0.05	3	3.5	0		
Cadmium T-Cd	<0.03	<0.03	<0.03	3	< D.L.	< D.L.	< D.L.		<0.03	3	0.9	0		
Chromium T-Cr	<0.5	<0.5	<0.5	3	< D.L.	< D.L.	< D.L.		<0.5	3	No criterion	0		
Lead T-Pb	<0.05	<0.05	<0.05	3	< D.L.	< D.L.	< D.L.		<0.05	3	0.8	0		
Mercury T-Hg	0.015	0.045	0.019	3	0.026	0.015	0.045	0.016	<0.005	0	0.1	0		
Nickel T-Ni	<1	<1	<1	3	< D.L.	< D.L.	< D.L.		<1	3	No criterion	0		
Selenium T-Se	0.7	0.9	0.7	3	0.77	0.70	0.90	0.12	<0.1	0	3.0	0		

NOTES:

See additional comments and notes appended to ASL WO# G5541 AND #G7024

Dissection of tissues and gonads by ASL Ltd.

Analysis of metals in liver tissues by ASL Ltd.

Age of specimens based on scales analyzed by North-South Consultants Ltd., Winnipeg

Composite samples are blended samples of liver tissue obtained from two or more individual fish.

It was not necessary to prepare composites from muscle tissue, because the fish were large enough for individual preparations.

<D.L. = below the detection limit for this parameter

TASEKO MINES LIMITED - PROSPERITY PROJECT  
 METALS IN FISH TISSUES - BEECE CREEK, GROUNDHOG CREEK, AND TETE ANGELA CREEK - 1996

**RAINBOW TROUT - BEECE CREEK** **LIVER TISSUE**

Species	RBTR	RBTR	RBTR	Number	Average	Minimum	Maximum	Standard	Detection	Number	BC Criterion,	Number of	Remarks
Locality	Beece Cr.	Beece Cr.	Beece Cr.	of Samples	Value, mg/Kg	Value, mg/Kg	Value, mg/Kg	Deviation	Limit, D.L. mg/Kg	below D.L.	consumption by humans mg/Kg wet weight	Samples above the BC Criterion	
Collector's Number	96-32	96-33	96-34										
Type of Tissue	Liver	Liver	Liver										
Composite Sample?													
Date	19 OCT 96	19 OCT 96	19 OCT 96										
Total Metals, mg/wet weight kg == ppm wet weight													
Antimony T-Sb	<0.05	<0.05	<0.05	3	< D.L.	< D.L.	< D.L.		<0.05	3	No criterion	0	<div style="border: 1px solid black; padding: 5px;"> <b>INTERPRETATION:</b>                       The 1995 BC Criteria                      for safe consumption by                      humans or wildlife                      were exceeded for:                      Selenium - 3 samples                 </div>
Arsenic T-As	0.17	0.09	0.06	3	0.11	0.06	0.17	0.06	<0.05	0	3.5	0	
Cadmium T-Cd	0.07	0.11	0.07	3	0.08	0.07	0.11	0.02	<0.03	0	0.9	1	
Chromium T-Cr	<0.5	<0.5	<0.5	3	< D.L.	< D.L.	< D.L.		<0.5	3	No criterion	0	
Lead T-Pb	0.05	<0.05	<0.05	3	< D.L.	< D.L.	0.05		<0.05	2	0.8	0	
Mercury T-Hg	0.017	0.027	0.022	3	0.022	0.017	0.027	0.005	<0.005	0	0.1	0	
Nickel T-Ni	<1	<1	<1	3	< D.L.	< D.L.	< D.L.		<1	3	No criterion	0	
Selenium T-Se	3.3	6.5	4.0	3	4.60	3.30	6.50	1.68	<0.1	0	3.0	3	

NOTES:

See additional comments and notes appended to ASL WO# G5541 AND #G7024  
 Dissection of tissues and gonads by ASL Ltd.  
 Analysis of metals in liver tissues by ASL Ltd.  
 Age of specimens based on scales analyzed by North-South Consultants Ltd., Winnipeg  
 Composite samples are blended samples of liver tissue obtained from two or more individual fish.  
 It was not necessary to prepare composites from muscle tissue, because the fish were large enough for individual preparations.  
 <D.L. = below the detection limit for this parameter

TASEKO MINES LIMITED - PROSPERITY PROJECT  
 METALS IN FISH TISSUES - BEECE CREEK, GROUNDHOG CREEK, AND TETE ANGELA CREEK - 1996

**BULL TROUT - BEECE CREEK**      **MUSCLE TISSUE**

Species	BUTR	BUTR	BUTR	BUTR	BUTR	BUTR	BUTR	BUTR	BUTR	BUTR
Locality	Beece - Site 18	Beece - Site 18	Beece - Site 18	Beece - Site 18	Beece - Site 27	Beece - Site 31	Beece - Site 31	Beece - Site 31	Beece - Site 31	Beece - Site 31
Collector's Number	96-02	96-03	96-04	96-05	96-06	96-07	96-08	96-09	96-10	96-11
Type of Tissue	Muscle	Muscle	Muscle	Muscle	Muscle	Muscle	Muscle	Muscle	Muscle	Muscle
Composite Sample?										
Date	11 SEP 96	11 SEP 96	11 SEP 96	11 SEP 96	11 SEP 96	11 SEP 96	11 SEP 96	11 SEP 96	11 SEP 96	11 SEP 96
% Moisture in tissue sample	Not determined	Not determined	Not determined	Not determined	Not determined	81.1	80	80.4	Not determined	80.3
Total Metals, mg/wet weight kg == ppm wet weight										
Antimony T-Sb	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Arsenic T-As	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Cadmium T-Cd	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03
Chromium T-Cr	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Lead T-Pb	0.05	<0.05	<0.05	<0.05	0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Mercury T-Hg	0.017	0.015	0.018	<0.005	0.011	0.015	0.013	0.021	0.027	0.014
Nickel T-Ni	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Selenium T-Se	0.9	1	0.9	0.8	0.9	0.8	0.8	1	1.2	1.1

NOTES:

See additional comments and notes appended to ASL WO# G5541 AND #G7024

Dissection of tissues and gonads by ASL Ltd.

Analysis of metals in liver tissues by ASL Ltd.

Age of specimens based on scales analyzed by North-South Consultants Ltd., Winnipeg

Composite samples are blended samples of liver tissue obtained from two or more individual fish.

It was not necessary to prepare composites from muscle tissue, because the fish were large enough for individual preparations.

<D.L. = below the detection limit for this parameter



TASEKO MINES LIMITED - PROSPERITY PROJECT  
 METALS IN FISH TISSUES - BEECE CREEK, GROUNDHOG CREEK, AND TETE ANGELA CREEK - 1996

**BULL TROUT - BEECE CREEK**  
**STATISTICAL SUMMARY - METALS IN BULL TROUT MUSCLE TISSUES**

	Number of Samples	Average Value, mg/Kg	Minimum Value, mg/Kg	Maximum Value, mg/Kg	Standard Deviation	Detection Limit, D.L. mg/Kg	Number below D.L.	BC Criterion, consumption by humans mg/Kg wet weight	Number of Samples above the BC Criterion	Remarks
% Moisture in tissue sample										
Total Metals, mg/wet weight kg == ppm wet weight										
Antimony T-Sb	10	<D.L.	<D.L.	<D.L.		<0.05	10	No criterion	0	<div style="border: 1px solid black; padding: 5px;"> <b>INTERPRETATION:</b>                       All samples in this series were within the BC Criteria for consumption of fish by humans or wildlife for the parameters tested                 </div>
Arsenic T-As	10	<D.L.	<D.L.	<D.L.		<0.05	10	3.5	0	
Cadmium T-Cd	10	<D.L.	<D.L.	<D.L.		<0.03	10	0.9	0	
Chromium T-Cr	10	<D.L.	<D.L.	<D.L.		<0.5	10	No criterion	0	
Lead T-Pb	10	<D.L.	<D.L.	0.05		<0.05	8	0.8	0	
Mercury T-Hg	10	0.017	<D.L.	0.027	0.005	<0.005	1	0.1	0	
Nickel T-Ni	10	<D.L.	<D.L.	<D.L.		<1	10	No criterion	0	
Selenium T-Se	10	0.94	0.80	1.20	0.135	<0.1	0	3.0	0	

NOTES:

See additional comments and notes appended to ASL WO# G5541 AND #G7024  
 Dissection of tissues and gonads by ASL Ltd.  
 Analysis of metals in liver tissues by ASL Ltd.  
 Age of specimens based on scales analyzed by North-South Consultants Ltd., Winnipeg  
 Composite samples are blended samples of liver tissue obtained from two or more individual fish  
 It was not necessary to prepare composites from muscle tissue, because the fish were large enough for individual preparations.  
 <D.L. = below the detection limit for this parameter

TASEKO MINES LIMITED - PROSPERITY PROJECT  
 METALS IN FISH TISSUES - BEECE CREEK, GROUNDHOG CREEK, AND TETE ANGELA CREEK - 1996

**BULL TROUT - BEECE CREEK**      **LIVER TISSUE**

Species	BUTR	BUTR	BUTR	Number	Average	Minimum	Maximum	Standard	Detection	Number	BC Criterion,	Number of	Remarks
Locality	eece - Site 18	eece - Site 31	eece - Site 31	of Samples	Value, ppm	Value, ppm	Value, ppm	Deviation	Limit, D.L.	below D.L.	consumption	Samples	
Collector's Number	96-02,03,04,0	6-07,08,10,11	98-09								by humans	exceeding the	
Type of Tissue	Liver	Liver	Liver								or wildlife	BC Criterion	
Composite Sample?	Composite	Composite									ppm, wet wt.		
Date	11 SEP 96	11 SEP 96	11 SEP 96										

Physical Tests

% Moisture in tissue sample    Not determined    Not determined    Not determined

Total Metals, mg/wet weight kg == ppm wet weight

Antimony T-Sb	<0.05	<0.05	<0.05	3	< D.L.	< D.L.	< D.L.		<0.05	3	No criterion	0	
Arsenic T-As	<0.05	<0.05	<0.05	3	< D.L.	< D.L.	< D.L.		<0.05	3	3.5	0	
Cadmium T-Cd	0.1	0.22	0.17	3	0.16	0.10	0.22	0.06	<0.03	0	0.9	0	
Chromium T-Cr	<0.5	<0.5	<0.5	3	< D.L.	< D.L.	< D.L.		<0.5	3	No criterion	0	
Lead T-Pb	0.41	0.09	0.12	3	0.207	0.090	0.410	0.177	<0.05	0	0.8	0	
Mercury T-Hg	<0.005	<0.005	0.021	3	< D.L.	< D.L.	0.021		<0.005	0	0.1	0	
Nickel T-Ni	<1	<1	<1	3	< D.L.	< D.L.	< D.L.		<1	0	No criterion	0	
Selenium T-Se	1.9	2.2	2.7	3	2.27	1.90	2.70	0.40	<0.1	0	3.0	0	

**INTERPRETATION:**  
 All samples in this series met the 1995 BC Criteria for safe consumption by humans or wildlife for all parameters tested

NOTES:

See additional comments and notes appended to ASL WO# G5541 AND #G7024

Dissection of tissues and gonads by ASL Ltd.

Analysis of metals in liver tissues by ASL Ltd.

Age of specimens based on scales analyzed by North-South Consultants Ltd., Winnipeg

Composite samples are blended samples of liver tissue obtained from two or more individual fish.

Composites were necessary when specimens were small, and when individual fish livers provided too little tissue for chemical analysis.

<D.L. = below the detection limit for this parameter

TASEKO MINES LIMITED - PROSPERITY PROJECT  
 METALS IN FISH TISSUES - BEECE CREEK, GROUNDHOG CREEK, AND TETE ANGELA CREEK - 1996

**MOUNTAIN WHITEFISH** **BEECE CREEK**

Species	RMWH	RMWH	Detection	Number	BC Criterion,	Number of	Remarks
Locality	Beece - Site 18	Beece - Site 18	Limit, D.L.	below D.L.	consumption	Samples	
Collector's Number	96-01	96-01			by humans	exceeding the	
Type of Tissue	Muscle	Liver			or wildlife	BC Criterion	
Composite Sample?					ppm, wet wt.		
Date	11 SEP 96	11 SEP 96					

Physical Tests

% Moisture in tissue sample 76.7 Not determined

Total Metals, mg/wet weight kg  $\approx$  ppm wet weight

Antimony T-Sb	<0.05	<0.05	<0.05	2	No criterion	0
Arsenic T-As	<0.05	0.17	<0.05	1	3.5	0
Cadmium T-Cd	<0.03	0.06	<0.03	1	0.9	0
Chromium T-Cr	<0.5	<0.5	<0.5	1	No criterion	0
Lead T-Pb	<0.05	0.05	<0.05	1	0.8	0
Mercury T-Hg	0.04	0.051	<0.005	0	0.1	0
Nickel T-Ni	<1	<1	<1	2	No criterion	0
Selenium T-Se	0.7	3.3	<0.1	0	3.0	1

<p>INTEPRETATION</p> <p>The liver sample exceeded the 1995 BC Criterion for selenium in fish flesh. The other parameters met the 1995 BC Criteria.</p>
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NOTES:

See additional comments and notes appended to ASL WO# G5541 AND #G7024  
 Dissection of tissues and gonads by ASL Ltd.  
 Analysis of metals in liver tissues by ASL Ltd.  
 Age of specimens based on scales analyzed by North-South Consultants Ltd., Winnipeg  
 <D.L. = below the detection limit for this parameter

TASEKO MINES LIMITED - PROSPERITY PROJECT  
 METALS IN FISH TISSUES - BEECE CREEK, GROUNDHOG CREEK, AND TETE ANGELA CREEK - 1996

**RAINBOW TROUT - GROUNDHOG CREEK**      **MUSCLE TISSUE**

Species	RBTR	RBTR	RBTR	RBTR	RBTR	RBTR	RBTR	RBTR	RBTR	RBTR
Locality	Groundhog Cr	Groundhog Cr	Groundhog Cr	Groundhog Cr	Groundhog Cr	Groundhog Cr	Groundhog Cr	Groundhog Cr	Groundhog Cr	Groundhog Cr
Collector's Number	96-22	96-23	96-24	96-25	96-26	96-27	96-28	96-29	96-30	96-31
Type of Tissue	Muscle	Muscle	Muscle	Muscle	Muscle	Muscle	Muscle	Muscle	Muscle	Muscle
Composite Sample?										
Date	11 SEP 96	11 SEP 96	11 SEP 96	11 SEP 96	11 SEP 96	11 SEP 96	11 SEP 96	11 SEP 96	11 SEP 96	11 SEP 96
% Moisture in tissue sample	78.5	79.9	82.1	78.2	77.9	77.6	76.8	77.6	77.5	77.8
Total Metals, mg/wet weight kg == ppm wet weight										
Antimony T-Sb	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Arsenic T-As	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Cadmium T-Cd	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	0.11	<0.03
Chromium T-Cr	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Lead T-Pb	<0.05	<0.05	<0.05	0.06	<0.05	<0.05	<0.05	0.05	0.05	<0.05
Mercury T-Hg	0.054	0.09	0.121	0.045	0.042	0.053	0.084	0.066	0.08	0.086
Nickel T-Ni	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Selenium T-Se	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1

NOTES:

See additional comments and notes appended to ASL WC# G5541 AND #G7024  
 Dissection of tissues and gonads by ASL Ltd.  
 Analysis of metals in liver tissues by ASL Ltd.  
 Age of specimens based on scales analyzed by North-South Consultants Ltd., Winnipeg  
 Composite samples are blended samples of liver tissue obtained from two or more individual fish.  
 Composites were not prepared for muscle tissue, because the fish were large enough for individual preparations.  
 <D.L. = below the detection limit for this parameter

TASEKO MINES LIMITED - PROSPERITY PROJECT  
 METALS IN FISH TISSUES - BEECE CREEK, GROUNDHOG CREEK, AND TETE ANGELA CREEK - 1996

**RAINBOW TROUT - GROUNDHOG CREEK**  
**STATISTICAL SUMMARY - METALS IN RAINBOW TROUT MUSCLE TISSUE**

	Number of Samples	Average Value, mg/Kg	Minimum Value, mg/Kg	Maximum Value, mg/Kg	Standard Deviation	Detection Limit, D.L. mg/Kg	Number below D.L.	BC Criterion, consumption by humans mg/Kg wet weight	Number of Samples above the BC Criterion	Remarks
% Moisture in tissue sample	10	78.4	76.8	82.1	1.54					
Total Metals, mg/wet weight kg == ppm wet weight										
Antimony T-Sb	10	< D.L.	< D.L.	< D.L.		<0.05	10	No criterion	0	
Arsenic T-As	10	< D.L.	< D.L.	< D.L.		<0.05	10	3.5	0	
Cadmium T-Cd	10	< D.L.	< D.L.	0.11		<0.03	9	0.9	0	
Chromium T-Cr	10	< D.L.	< D.L.	< D.L.		<0.5	10	No criterion	0	
Lead T-Pb	10	0.1	0.1	0.1	0.01	<0.05	7	0.8	0	
Mercury T-Hg	10	0.072	0.042	0.121	0.025	<0.005	0	0.10	1	
Nickel T-Ni	10	< D.L.	< D.L.	< D.L.		<1	10	No criterion	0	
Selenium T-Se	10	0.1	0.1	0.1	0.00	<0.1	0	3.0	0	

**INTERPRETATION:**  
 One sample in this series exceeded the BC Criterion for MERCURY in fish tissues.  
 Other parameters were within the 1995 BC Criteria.

NOTES:  
 See additional comments and notes appended to ASL WO# G5541 AND #G7024  
 Dissection of tissues and gonads by ASL Ltd.  
 Analysis of metals in liver tissues by ASL Ltd.  
 Age of specimens based on scales analyzed by North-South Consultants Ltd., Winnipeg  
 Composite samples are blended samples of liver tissue obtained from two or more individual fish.  
 Composites were not prepared for muscle tissue, because the fish were large enough for individual preparations.  
 <D.L. = below the detection limit for this parameter

TASEKO MINES LIMITED - PROSPERITY PROJECT  
 METALS IN FISH TISSUES - BEECE CREEK, GROUNDHOG CREEK, AND TETE ANGELA CREEK - 1996

<b>RAINBOW TROUT - GROUNDHOG CREEK</b>	<b>LIVER TISSUE</b>
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Species	RBTR	RBTR	RBTR	RBTR
Locality	Groundhog Cr	Groundhog Cr	Groundhog Cr	Groundhog Cr
Collector's Number	96-22	96-23,24,25	96-26,27,28	96-29,30,31
Type of Tissue	Liver	Liver	Liver	Liver
Composite Sample?		Composite	Composite	Composite
Date	11 SEP 96	11 SEP 96	11 SEP 96	11 SEP 96

Total Metals, mg/wet weight kg == ppm wet weight

Antimony T-Sb	<0.05	<0.05	<0.05	<0.05
Arsenic T-As	<0.05	<0.05	<0.05	<0.05
Cadmium T-Cd	<0.03	<0.03	<0.03	<0.03
Chromium T-Cr	<0.5	<0.5	<0.5	<0.5
Lead T-Pb	0.06	<0.05	0.12	<0.05
Mercury T-Hg	0.064	<0.005	<0.005	<0.005
Nickel T-Ni	<1	<1	<1	<1
Selenium T-Se	0.7	0.6	0.8	1.2

NOTES:

See additional comments and notes appended to ASL WC# G5541 AND #G7024

Dissection of tissues and gonads by ASL Ltd.

Analysis of metals in liver tissues by ASL Ltd.

Age of specimens based on scales analyzed by North-South Consultants Ltd., Winnipeg

Composite samples are blended samples of liver tissue obtained from two or more individual fish.

It was not necessary to prepare composites from muscle tissue, because the fish were large enough for individual preparations.

<D.L. = below the detection limit for this parameter

TASEKO MINES LIMITED - PROSPERITY PROJECT  
 METALS IN FISH TISSUES - BEECE CREEK, GROUNDHOG CREEK, AND TETE ANGELA CREEK - 1996

**RAINBOW TROUT - GROUNDHOG CREEK**  
**STATISTICAL SUMMARY - METALS IN LIVER TISSUE**

	Number of Samples	Average Value, mg/Kg	Minimum Value, mg/Kg	Maximum Value, mg/Kg	Standard Deviation	Detection Limit, D.L. mg/Kg	Number below D.L.	BC Criterion, consumption by humans mg/Kg wet weight	Number of Samples above the BC Criterion	Remarks
Total Metals, mg/wet weight kg == ppm wet weight										
Antimony T-Sb	4	< D.L.	< D.L.	< D.L.		<0.05	4	No criterion	0	<div style="border: 1px solid black; padding: 5px;"> <b>INTERPRETATION:</b>                       All samples in this series                      met the 1995 BC Criteria                      for safe consumption by                      humans or wildlife                      for the parameters tested                 </div>
Arsenic T-As	4	< D.L.	< D.L.	< D.L.		<0.05	4	3.5	0	
Cadmium T-Cd	4	< D.L.	< D.L.	< D.L.		<0.03	4	0.9	0	
Chromium T-Cr	4	< D.L.	< D.L.	< D.L.		<0.5	4	No criterion	0	
Lead T-Pb	4	0.09	0.06	0.12	0.04	<0.05	1	0.8	0	
Mercury T-Hg	4	< D.L.	< D.L.	0.064		<0.005	3	0.1	0	
Nickel T-Ni	4	< D.L.	< D.L.	< D.L.		<1	4	No criterion	0	
Selenium T-Se	4	0.83	0.60	1.20	0.26	<0.1	0	3.0	0	

NOTES:

See additional comments and notes appended to ASL WO# G5541 AND #G7024  
 Dissection of tissues and gonads by ASL Ltd.  
 Analysis of metals in liver tissues by ASL Ltd.  
 Age of specimens based on scales analyzed by North-South Consultants Ltd., Winnipeg  
 Composite samples are blended samples of liver tissue obtained from two or more individual fish.  
 It was not necessary to prepare composites from muscle tissue, because the fish were large enough for individual preparations.  
 <D.L. = below the detection limit for this parameter

TASEKO MINES LIMITED - PROSPERITY PROJECT  
 METALS IN FISH TISSUES - BEECE CREEK, GROUNDHOG CREEK, AND TETE ANGELA CREEK - 1996

**RAINBOW TROUT - TETE ANGELA CREEK      MUSCLE TISSUE**

Species	RBTR	RBTR	RBTR	RBTR	RBTR	RBTR	RBTR	RBTR	RBTR	RBTR
Locality	Tete Angela	Tete Angela	Tete Angela	Tete Angela	Tete Angela	Tete Angela	Tete Angela	Tete Angela	Tete Angela	Tete Angela
Collector's Number	96-12	96-13	96-14	96-15	96-16	96-17	96-18	96-19	96-20	96-21
Type of Tissue	Muscle	Muscle	Muscle	Muscle	Muscle	Muscle	Muscle	Muscle	Muscle	Muscle
Composite Sample?										
Date	11 SEP 96	11 SEP 96	11 SEP 96	11 SEP 96	11 SEP 96	11 SEP 96	11 SEP 96	11 SEP 96	11 SEP 96	11 SEP 96
% Moisture in tissue sample	78.2	78.6	80	78.2	78.9	78.8	78.9	78.8	78.6	79.2
Total Metals, mg/wet weight kg == ppm wet weight										
Antimony T-Sb	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Arsenic T-As	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Cadmium T-Cd	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03
Chromium T-Cr	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Lead T-Pb	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	0.06	<0.05	<0.05
Mercury T-Hg	0.068	0.036	0.086	0.03	0.042	0.031	0.066	0.038	0.036	0.043
Nickel T-Ni	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Selenium T-Se	0.1	<0.1	0.1	<0.1	0.1	<0.1	0.1	<0.1	0.1	<0.1

NOTES:

See additional comments and notes appended to ASL WO# G5541 AND #G7024

Dissection of tissues and gonads by ASL Ltd.

Analysis of metals in liver tissues by ASL Ltd.

Age of specimens based on scales analyzed by North-South Consultants Ltd., Winnipeg

Composite samples are blended samples of liver tissue obtained from two or more individual fish.

It was not necessary to prepare composites from muscle tissue, because the fish were large enough for individual preparations.

<D.L. = below the detection limit for this parameter



TASEKO MINES LIMITED - PROSPERITY PROJECT  
 METALS IN FISH TISSUES - BEECE CREEK, GROUNDHOG CREEK, AND TETE ANGELA CREEK - 1996

**RAINBOW TROUT - TETE ANGELA CREEK**  
**STATISTICAL SUMMARY - METALS IN RAINBOW TROUT MUSCLE TISSUE**

	Number of Samples	Average Value, mg/Kg	Minimum Value, mg/Kg	Maximum Value, mg/Kg	Standard Deviation	Detection Limit, D.L. mg/Kg	Number below D.L.	BC Criterion, consumption by humans mg/Kg wet weight	Number of Samples above the BC Criterion
% Moisture in tissue sample	10	78.820	78.200	80.000	0.518				
Total Metals, mg/wet weight kg == ppm wet weight									
Antimony T-Sb	10	< D.L.	< D.L.	< D.L.		<0.05	10	No criterion	0
Arsenic T-As	10	< D.L.	< D.L.	< D.L.		<0.05	10	3.5	0
Cadmium T-Cd	10	< D.L.	< D.L.	< D.L.		<0.03	10	0.9	0
Chromium T-Cr	10	< D.L.	< D.L.	< D.L.		<0.5	10	No criterion	0
Lead T-Pb	10	< D.L.	< D.L.	0.06		<0.05	9	0.8	0
Mercury T-Hg	10	0.048	0.030	0.086	0.019	<0.005	0	0.1	0
Nickel T-Ni	10	< D.L.	< D.L.	< D.L.		<1	10	No criterion	0
Selenium T-Se	10	< D.L.	< D.L.	0.10	0.00	<0.1	5	3.0	0

**INTERPRETATION:**  
 All samples in this series  
 met the 1995 BC Criteria  
 for safe consumption by  
 humans or wildlife  
 for the parameters tested

NOTES:  
 See additional comments and notes appended to ASL WO# G5541 AND #G7024  
 Dissection of tissues and gonads by ASL Ltd.  
 Analysis of metals in liver tissues by ASL Ltd.  
 Age of specimens based on scales analyzed by North-South Consultants Ltd., Winnipeg  
 Composite samples are blended samples of liver tissue obtained from two or more individual fish.  
 It was not necessary to prepare composites from muscle tissue, because the fish were large enough for individual preparations.  
 <D.L. = below the detection limit for this parameter

TASEKO MINES LIMITED - PROSPERITY PROJECT

METALS IN FISH TISSUES - BEECE CREEK, GROUNDHOG CREEK, AND TETE ANGELA CREEK - 1996

**RAINBOW TROUT - TETE ANGELA CREEK**      **LIVER TISSUE**

Species	RBTR	RBTR	RBTR	Number	Average	Minimum	Maximum	Standard	Detection	Number	BC Criterion,	Number of	Remarks
Locality	Tete Angela	Tete Angela	Tete Angela	of Samples	Value, mg/Kg	Value, mg/Kg	Value, mg/Kg	Deviation	Limit, D.L.	below D.L.	consumption	Samples	
Collector's Number	96-12,13	96-14,15,16	7,18,19,20,21					mg/Kg			by humans	above the	
Type of Tissue	Liver	Liver	Liver								mg/Kg	BC Criterion	
Composite Sample?	Composite	Composite	Composite								wet weight		
Date	11 SEP 96	11 SEP 96	11 SEP 96										
Total Metals, mg/wet weight kg == ppm wet weight													
Antimony T-Sb	<0.05	<0.05	<0.05	3	<D.L	<D.L	<D.L		<0.05	3	No criterion	0	<b>INTERPRETATION:</b> All samples in this series met the 1995 BC Criteria for safe consumption by humans or wildlife for the parameters tested
Arsenic T-As	<0.05	<0.05	<0.05	3	<D.L	<D.L	<D.L		<0.05	3	3.5	0	
Cadmium T-Cd	<0.03	<0.03	<0.03	3	<D.L	<D.L	<D.L		<0.03	3	0.9	0	
Chromium T-Cr	<0.5	<0.5	<0.5	3	<D.L	<D.L	<D.L		<0.5	3	No criterion	0	
Lead T-Pb	0.05	0.05	<0.05	3	0.05	0.05	0.05		<0.05	1	0.8	0	
Mercury T-Hg	0.069	<0.005	0.075	3	0.072	0.069	0.075	0.004	<0.005	1	0.1	0	
Nickel T-Ni	<1	<1	<1	3	<D.L	<D.L	<D.L		<1	3	No criterion	0	
Selenium T-Se	0.6	0.5	0.6	3	0.57	0.50	0.60	0.06	<0.1	0	3.0	0	

NOTES:

See additional comments and notes appended to ASL WO# G5541 AND #G7024

Dissection of tissues and gonads by ASL Ltd.

Analysis of metals in liver tissues by ASL Ltd.

Age of specimens based on scales analyzed by North-South Consultants Ltd., Winnipeg

Composite samples are blended samples of liver tissue obtained from two or more individual fish.

It was not necessary to prepare composites from muscle tissue, because the fish were large enough for individual preparations.

<D.L. = below the detection limit for this parameter

TASEKO MINES LIMITED - PROSPERITY PROJECT  
 METALS IN FISH TISSUES - JULY-AUGUST 1995

QA/QC - METHOD BLANKS

Type of Specimen	Method Blank #1	Method Blank #2	Detection Limit (D.L.)	Number below D.L.
Date	Sep 95	Sep 95	mg/Kg	
Total Metals, mg/wet weight kg == ppm wet weight				
Antimony T-Sb	<0.05	<0.05	0.05	2
Arsenic T-As	<0.05	<0.05	0.05	2
Cadmium T-Cd	<0.03	<0.03	0.03	2
Chromium T-Cr	<0.05	<0.05	0.05	2
Lead T-Pb	<0.05	<0.05	0.05	2
Mercury T-Hg	<0.005	<0.005	0.005	2
Nickel T-Ni	<0.05	<0.05	0.05	2
Selenium T-Se	<0.10	<0.10	0.1	2

NOTES:

Analysis by ASL Ltd.

ASL WO# F2850

Results indicate no detectable levels of metals in distilled water used for method blanks

TASEKO MINES LIMITED - PROSPERITY PROJECT  
 METALS IN FISH TISSUES - BEECE CREEK, GROUNDHOG CREEK, AND TETE ANGELA CREEK - 1996

**QA/QC - METHOD BLANKS**

Type of Specimen	Method Blank #1	Method Blank #2	Method Blank #3
Date	11 SEP 96	11 SEP 96	19 OCT 96

Total Metals, mg/wet weight kg == ppm wet weight

Antimony T-Sb	<0.05	<0.05	<0.05
Arsenic T-As	<0.05	<0.05	<0.05
Cadmium T-Cd	<0.03	<0.03	<0.03
Chromium T-Cr	<0.5	<0.5	<0.5
Lead T-Pb	<0.05	<0.05	<0.05
Mercury T-Hg	<0.005	<0.005	<0.005
Nickel T-Ni	<1	<1	<1
Selenium T-Se	<0.1	<0.1	<0.1

NOTES:

See additional comments and notes appended to ASL WO# G5541 AND #G7024  
 Results indicate no detectable levels of metals in distilled water used for method blanks

TASEKO MINES LIMITED - PROSPERITY PROJECT  
 METALS IN FISH TISSUES - JULY-AUGUST 1995

**QA/QC - CERTIFIED REFERENCE MATERIALS  
 FROM NATIONAL RESEARCH COUNCIL**

Date	Type of Reference Material		% Difference between Target and Found Values	Detection Limit (D.L.) mg/Kg
	NRC-CRM DORM Found SEP 95	NRC-CRM DORM Target SEP 95		

**DORM-1 = Dogfish  
 muscle tissue**

Total Metals, mg/wet weight kg == ppm wet weight

Antimony	T-Sb	---	---	---	0.05	
Arsenic	T-As	18	18	0.0	0.05	
Cadmium	T-Cd	0.05	0.04	25.0	0.03	Close to detection limit
Chromium	T-Cr	20.5	34.7	40.9	0.5	Significant difference
Lead	T-Pb	<0.05	0.06		0.05	Close to detection limit
Mercury	T-Hg	4.56	4.64	1.7	0.005	
Nickel	T-Ni	12	19	36.8	1	Significant difference
Selenium	T-Se	1.09	1.4	22.1	0.1	Significant difference

NOTES:

See additional comments and notes appended to ASL WO# F2850

TORT-1, DORM-1 and DOLT-2 are Certified Reference Materials from the National Research Council

QA/QC Analysis by ASL Ltd.

Results indicate a significant difference between target and found determinations for Chromium, Nickel and Selenium

TASEKO MINES LIMITED - PROSPERITY PROJECT  
 METALS IN FISH TISSUES - BEECE CREEK, GROUNDHOG CREEK, AND TETE ANGELA CREEK - 1996

**QA/QC - CERTIFIED REFERENCE MATERIALS  
 FROM NATIONAL RESEARCH COUNCIL**

Type of Reference Material	DORM-1 = Dogfish muscle tissue			Detection Limit ppm
	NRC-CRM DORM Found	NRC-CRM DORM Target	% Difference between Target and Found Values	
Date	11 SEP 96	11 SEP 96		

Type of Reference Material	DORM-1 = Dogfish muscle tissue			Detection Limit ppm
	NRC-CRM DORM Found	NRC-CRM DORM Target	% Difference between Target and Found Values	
Date	19 OCT 96	19 OCT 96		

Total Metals, mg/wet weight kg == ppm wet weight

Antimony T-Sb	Not determined	Not determined	Not determined	0.05	Not determined	Not determined	Not determined	0.05
Arsenic T-As	18.3	18	1.6	0.05	17.9	18.0	0.6	0.05
Cadmium T-Cd	0.04	0.04	0.0	0.03	0.05	0.04	20.0	0.03 Close to detection limit
Chromium T-Cr	25.8	34.7	34.5	0.5 Significant difference	27.3	34.7	27.1	0.5 Significant difference
Lead T-Pb	0.09	0.06	33.3	0.05 Close to detection limit	0.07	0.06	14.3	0.05 Close to detection limit
Mercury T-Hg	4.24	4.64	9.4	0.005	4.24	4.64	9.4	0.005
Nickel T-Ni	14	19	35.7	1 Significant difference	16	19	18.8	1 Significant difference
Selenium T-Se	1.0	1.4	40.0	0.1 Significant difference	1.0	1.4	40.0	0.1 Significant difference

NOTES:

See additional comments and notes appended to ASL WO# G5541 AND #G7024

TORT-1, DORM-1 and DOLT-2 are Certified Reference Materials from the National Research Council

QA/QC Analysis by ASL Ltd.

Results indicate a significant difference between target and found determinations for Chromium, Nickel and Selenium

TASEKO MINES LIMITED - PROSPERITY PROJECT  
 METALS IN FISH TISSUES - JULY-AUGUST 1995

**QA/QC - CERTIFIED REFERENCE MATERIALS  
 FROM NATIONAL RESEARCH COUNCIL**

Date	Type of Reference Material		% Difference between Target and Found Values	Detection Limit (D.L.) mg/Kg	
	NRC-CRM DOLT Found SEP 95	NRC-CRM DOLT Target SEP 95			
	DOLT-2 = Dogfish liver tissue				
Total Metals, mg/wet weight kg == ppm wet weight					
Antimony	T-Sb	---	---	---	0.05
Arsenic	T-As	12.7	16.6	30.7	0.05 Significant difference
Cadmium	T-Cd	19.9	20.8	4.5	0.03
Chromium	T-Cr	0.35	0.37	5.7	0.5
Lead	T-Pb	0.25	0.22	12.0	0.05
Mercury	T-Hg	1.99	1.99	0.0	0.005
Nickel	T-Ni	0.15	0.2	33.3	0.05 Close to detection limit
Selenium	T-Se	5.1	6.1	19.6	0.1 Significant difference

NOTES:  
 See additional comments and notes appended to ASL WO# F2850  
 TORT-1, DORM-1 and DOLT-2 are Certified Reference Materials from the National Research Council  
 QA/QC Analysis by ASL Ltd.  
 Results indicate a significant difference between target and found determinations for Arsenic and Selenium

TASEKO MINES LIMITED - PROSPERITY PROJECT  
 METALS IN FISH TISSUES - BEECE CREEK, GROUNDHOG CREEK, AND TETE ANGELA CREEK - 1996

**QA/QC - CERTIFIED REFERENCE MATERIALS  
 FROM NATIONAL RESEARCH COUNCIL**

Type of Reference Material	DOLT-2 = Dogfish liver tissue			Detection Limit ppm	DOLT-2 = Dogfish liver tissue		
	NRC-CRM DOLT Found	NRC-CRM DOLT Target	% Difference between Target and Found Values		NRC-CRM DOLT Found	NRC-CRM DOLT Target	Date
Date	11 SEP 96	11 SEP 96			19 OCT 96	19 OCT 96	

Total Metals, mg/wet weight kg == ppm wet weight

Element	11 SEP 96	11 SEP 96	% Diff	Limit	19 OCT 96	19 OCT 96	% Diff	Limit
Antimony T-Sb	Not determined	Not determined	Not determined	0.05	Not determined	Not determined	Not determined	0.05
Arsenic T-As	13.6	16.6	22.1	0.05 Significant difference	15.4	16.6	7.8	0.05
Cadmium T-Cd	20.4	20.8	2.0	0.03	20	20.8	4.0	0.03
Chromium T-Cr	0.6	0.37	38.3	0.5 Close to detection limit	<0.5	<0.5	0.0	0.5 Both values < detection limit
Lead T-Pb	0.21	0.22	4.8	0.05	0.21	0.22	4.8	0.05
Mercury T-Hg	2.19	1.99	9.1	0.005	2.1	1.99	5.2	0.005
Nickel T-Ni	<1	0.2		1 Target < method detection limit	<1	<1	0.0	1 Both values < detection limit
Selenium T-Se	4.8	6.1	27.1	0.1 Significant difference	5.2	6.1	17.3	0.1 Large difference

NOTES:  
 See additional comments and notes appended to ASL WO# G5541 AND #G7024  
 TORT-1, DORM-1 and DOLT-2 are Certified Reference Materials from the National Research Council  
 QA/QC Analysis by ASL Ltd.  
 Results indicate a significant difference between target and found determinations for Arsenic and Selenium



TASEKO MINES LIMITED - PROSPERITY PROJECT  
 METALS IN FISH TISSUES - JULY-AUGUST 1995

QA/QC - CERTIFIED REFERENCE MATERIALS  
 FROM NATIONAL RESEARCH COUNCIL

Type of Reference Material	TORT = Lobster hepatopancreas		% Difference between Target and Found Values	Detection Limit (D.L.) mg/Kg	Remarks
Date	NRC-CRM TORT Found SEP 95	NRC-CRM TORT Target SEP 95			

Total Metals, mg/wet weight kg == ppm wet weight

Antimony T-Sb	---	---	---	0.05	
Arsenic T-As	21.5	21.6	0.5	0.05	No significant difference between target and found values for Arsenic
Cadmium T-Cd	---	26.7	---	0.03	
Chromium T-Cr	---	0.8	---	0.5	
Lead T-Pb	---	0.35	---	0.05	
Mercury T-Hg	---	0.27	---	0.005	
Nickel T-Ni	---	2	---	1	
Selenium T-Se	---	5.6	---	0.1	

NOTES:

See additional comments and notes appended to ASL WO# F2850

ASL analyzed only the arsenic in TORT tissues.

TORT-1, DORM-1 and DOLT-2 are Certified Reference Materials from the National Research Council  
 QA/QC Analysis by ASL Ltd.

TASEKO MINES LIMITED - PROSPERITY PROJECT  
 METALS IN FISH TISSUES - BEECE CREEK, GROUNDHOG CREEK, AND TETE ANGELA CREEK - 1996

**QA/QC - CERTIFIED REFERENCE MATERIALS  
 FROM NATIONAL RESEARCH COUNCIL**

Type of Reference Material	TORT = Lobster hepatopancreas				
	NRC-CRM	NRC-CRM	% Difference	Detection	Remarks
	TORT	TORT	between	Limit	
Date	Found	Target	Target and	ppm	
	11 SEP 96	11 SEP 96	Found Values		
Total Metals, mg/wet weight kg == ppm wet weight					
Antimony T-Sb	Not determined	Not determined	Not determined	0.05	
Arsenic T-As	23.1	21.6	6.5	0.05	No significant difference between target and found
Cadmium T-Cd	27.5	26.7	2.9	0.03	No significant difference between target and found
Chromium T-Cr	0.9	0.8	11.1	0.5	No significant difference between target and found
Lead T-Pb	0.33	0.35	6.1	0.05	No significant difference between target and found
Mercury T-Hg	0.29	0.27	6.9	0.005	No significant difference between target and found
Nicket T-Ni	2	2	0.0	1	No significant difference between target and found
Selenium T-Se	5.0	5.6	12.0	0.1	No significant difference between target and found

NOTES:

See additional comments and notes appended to ASL WO# G5541 AND #G7024  
 TORT-1, DORM-1 and DOLT-2 are Certified Reference Materials from the National Research Council  
 QA/QC Analysis by ASL Ltd.