

2007-8 Exploration Summary Report

Risby Tungsten Deposit

Yukon Territory, Canada

Work Completed on Claims:

Risby 1 (YB 46678), WO3-4 (YC19239), X 19 (YC47485) & X 21 (YC47487)

Total Exploration Expenditures: \$1,932,534

Exploration Work: NI 43-101 Resource Calculation (September 2007)

Diamond Drilling (June to October 2008)

NTS map area 105F14

Whitehorse Mining Division

Estimated centre property: Latitude 61° 52' 08" N Longitude 133° 22' 36" W {UTM Zone 8V (NAD 83): 0585400W 6860600N}



Prepared by Property owner/operator

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TSX.V – PLY

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December 20, 2008

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“ Signed ”
Michael Moore, P.Geo.

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SUMMARY

This report summarizes the 2008 Playfair Mining Ltd exploration work carried out on the Risby Tungsten Deposit. The Risby is located in the remote Pelly Mountains, in the south-central region of the Yukon Territory, about 50 kilometres west-southwest of the village of Ross River or 160 km (100 miles) northeast of Whitehorse. The property is accessible by helicopter or via float plane to Wristpin Lake located two kilometres north of the deposit. An old 25 kilometre long tractor road, connected to the all-weather South Canol road, could be re-activated for winter use only.

The Risby Tungsten deposit is a scheelite-bearing skarn occurrence which is underlain by lower Paleozoic sedimentary rocks that have been intruded by Cretaceous age biotite-quartz monzonite. The intrusive activity has produced skarn mineralization, principally tungsten skarn with lesser copper and molybdenite metal enrichment. The principle tungsten target is two tungsten skarn horizons, the upper and lower skarn horizons, both of which occur close to and paralleling the quartz monzonite contact.

In September 2007, Playfair completed a NI 43-101 compliant inferred tungsten resource estimate of 6.4 million tonnes of 0.462% WO₃ using a 0.2% WO₃ cutoff. The purpose of Playfair's 2008 drill campaign was to expand the known limits of the tungsten deposit ('No. 2 Zone'). Holes 50 and 51 (drilled from the same site) are located about 220 metres north and along strike of the limits of the inferred tungsten resource. These two holes are the most significant of the 2008 drill program having intercepted similar tungsten grades and widths as those found within the nearby deposit outline. The tungsten intercepts within these two holes demonstrates a strong lateral or on-strike continuity of tungsten mineralization over a total estimated strike length now exceeding 750 metres (DDH 50-51 + inferred deposit outline). Importantly, the property has untested surface gossan zones located as much as one kilometre north on-strike of the main deposit. A highlight intercept from hole RT08-51 is as follows: 4.43m of 0.991% WO₃, including 2.00m of 1.650% WO₃.

The Risby property forms a contiguous block of 43 quartz mineral claims covering approximately 898.87 hectares (2,221.08 acres). Many of the property mineral claims were wholly purchased from Ron Berdahl in early 2006 by Playfair. Ron Berdahl retains a 3% Net Smelter Return (NSR) royalty, a portion of which may be purchased by Playfair. Additional claims have been staked by Playfair in 2006 and 2008; these claims fall under the radius of interest clause in the Berdahl contract.

Originally, Playfair had planned to drill an estimated 7,000 metres of core in about 15-20 holes, with the goal of greatly expanding the Tungsten deposit; however the program endured a perfect storm of technical, personnel and weather related complications which greatly hindered exploration efforts and increased costs significantly. The 2008 drill program was completed at a total estimated cost of \$1,932,534. The program included a seven diamond drill holes (1,655m), precision GPS surveying and core & water quality sampling. A total 261 rock core samples and twelve water samples were collected and analyzed. Exploration work was limited to four claims: Risby 1 (YB 46678), WO3-4 (YC19239), X 19 (YC47485) & X 21 (YC47487).

2.0 INTRODUCTION AND TERMS OF REFERENCE

2.1 Introduction

The Risby Tungsten Property is located in the Yukon Territory, within the Whitehorse Mining Division. The property forms a contiguous block of 43 quartz mineral claims 100% owned by Playfair Mining Ltd of Vancouver, British Columbia, Canada (TSX-V: PLY).

The Risby Tungsten Deposit is a scheelite-bearing skarn occurrence in the Ross River area, Yukon. At present, the property is accessible by helicopter or float plane to Wristpin Lake two kilometres from the zone. In 1982, HudBay estimated a resource of 2.7 million tonnes of 0.81% WO₃ using a 0.4% WO₃ cut-off grade (predating 43-101 and not compliant) In September 2007, Playfair completed a NI 43-101 compliant resource estimate of 6.4 million tonnes of 0.462% WO₃ using a 0.2% WO₃ cutoff. Playfair completed a drill program over the 2008 field season comprised of seven drill holes totalling 1,655.21 metres. The purpose of the 2008 drill program was to expand the known limits of the No. 2 Zone deposit. The program returned encouraging results including 0.81% WO₃ over 3.0 metres in hole RT08-50 and 0.99% WO₃ over 4.43 metres in hole RT08-51, including 1.65% tungsten over 2.00 metres.

2.2 Terms of Reference

Mr. Neil Briggs, president of Playfair, requested the author prepare a summary of all 2007 - 8 exploration work for the Risby Project. Playfair is a public trading company with shares listed on the Toronto Venture exchange (TSX.V: PLY) and offices at Vancouver British Columbia.

All exploration and sampling was carried out under the supervision of Michael Moore P.Geo. Mr. Moore is a registered Professional Geologist in good standing with the Association of Professional Engineers and Geoscientists of British Columbia (APEGBC).

2.3 Purpose of Report

The primary purpose of this report is to submit a summary of the 2008 exploration expenditures on for the Risby Tungsten Project. The report is intended to fulfill assessment requirements, outlined by the Government of Yukon Territories, to keep the property mineral licences in good standing. To this end, Playfair has spent \$1.93 million on its 2008 exploration (see Table 5.4).

2.4 Definitions

cm	centimetre(s)	ft	feet
DDH	diamond drill hole (core)	FA	fire assay
in.	inch(es)	kg	kilogram
km	kilometre(s)	lb	pound
ton (s)	imperial short ton	tonnes	metric ton
m	metre(s)	mi	miles
Ma	millions of years	oz Au/t	ounces of gold per short ton
opt	ounces per ton	ppb	parts per billion
ppm	parts per million	RC	reverse circulation drill hole
gpt	grams per tonne	WO ₃	Tungsten trioxide
W to WO ₃	W x 1.261	W	Tungsten

Outcrop: a surface exposure of bedrock

Subcrop: a poor exposure of bedrock, which is not fully in place

Float: rock found on surface from an undetermined bedrock source

Silt or stream sediment sample: transported fine materials collected from a stream or river drainage for the purposes of regional reconnaissance geochemical surveying.

All currencies are in Canadian dollar denominations and measurements are in metric units (unless noted otherwise).

3.0 PROPERTY DESCRIPTION AND LOCATION

3.1 Area and Location

The Risby Tungsten Project property is located in the Pelly Mountains, in the south-central region of the Yukon Territory. Centered at 61°51'52" north latitude and 133°22'21" west longitude, the property is situated approximately 50 kilometres west-southwest of Ross River, Yukon. The claims are centered at approximately UTM coordinates 585,499 metres west, 6,860,124 metres north (NAD 83 Zone 8); on NTS map sheet 105F14 (Figure 3.1). Whitehorse is located a straight line distance of 160 km (100 miles) to the southwest of the property.

3.2 Claims and Title

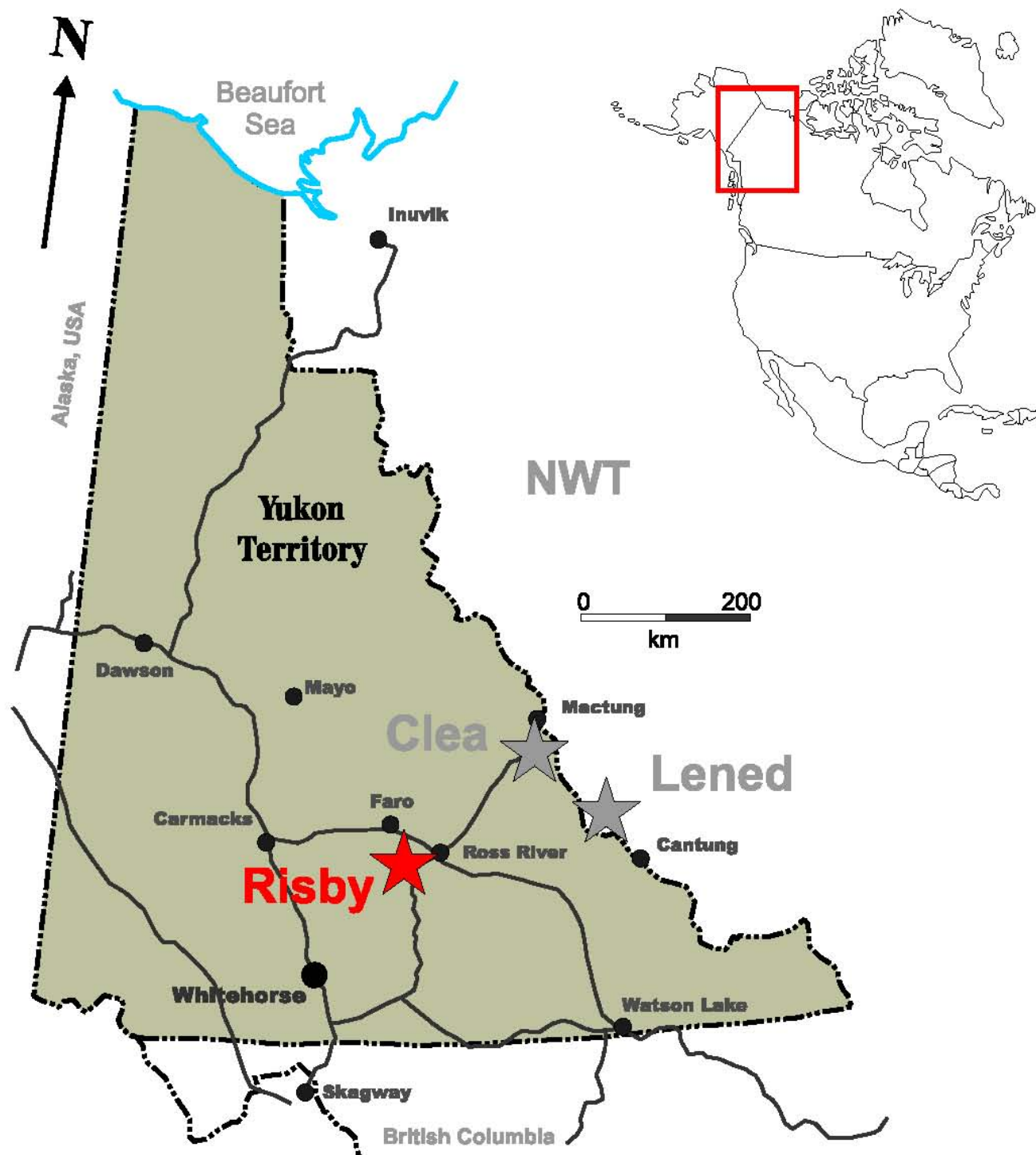
The Risby property forms a contiguous block of 43 Quartz mineral claims covering approximately 898.87 hectares (2,221.08 acres). Details of the claim particulars are shown in Table 3.2 and Figure 3.2. The mineral claims were wholly purchased from Ron Berdahl in early 2006 by Playfair. Ron Berdahl retains a 3% Net Smelter Return (NSR) royalty, a portion of which may be purchased by Playfair. Claims X29 to X33 were staked in August 2008 by Mark Nelson, as Playfair's staking agent. Ownership for these claims will be transferred to Playfair in the near term. Table 3.2 is not a legal title opinion but is a compilation of claims data based on the author's review of the government of Yukon Territory Mineral rights inquiry web site (December 04, 2008).

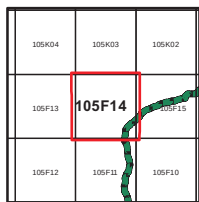
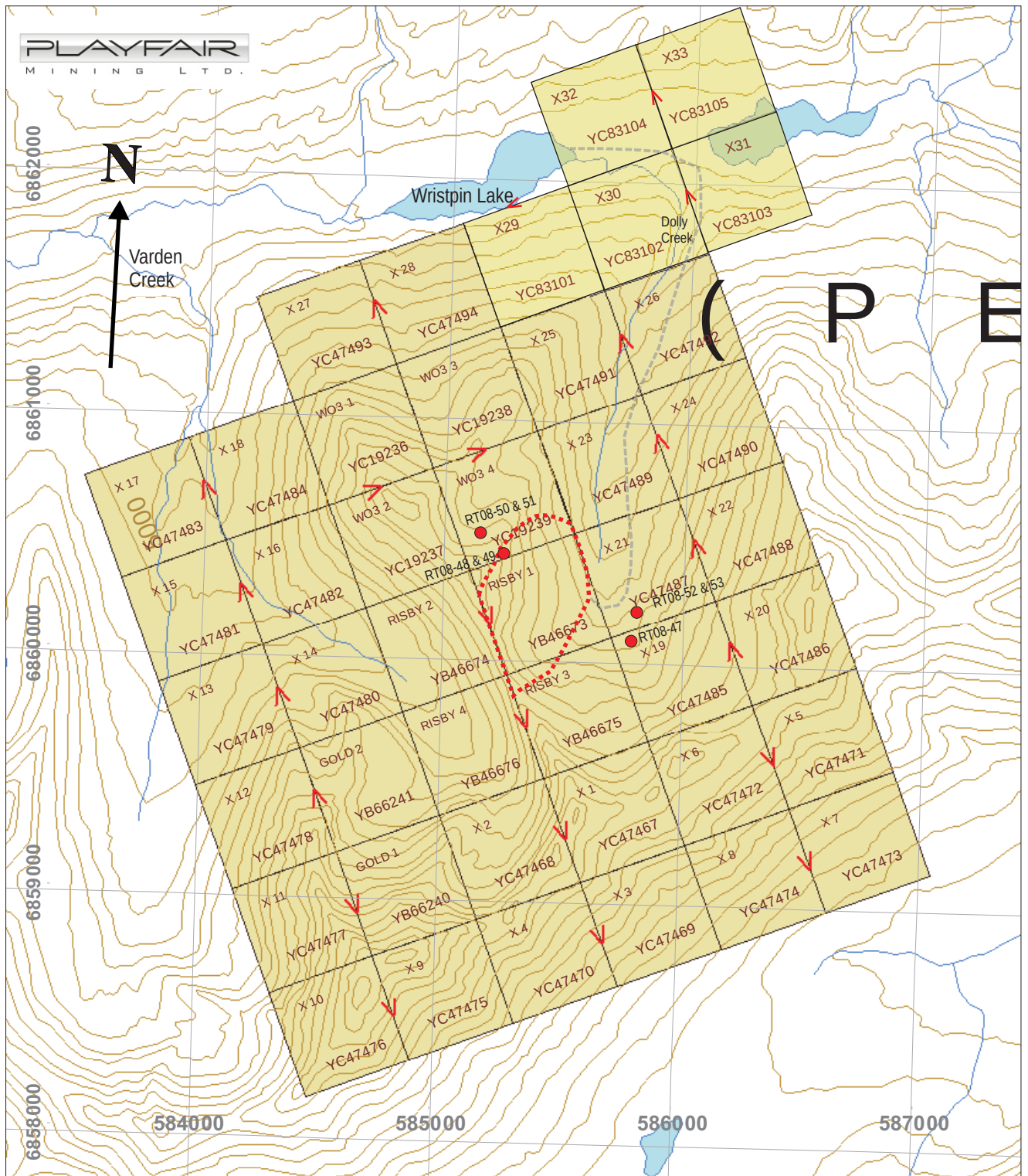
Table 3.2 Risby Property Claims

Grant #	Name	Claim #	Claim Owner	Record Date	Expiry Date
YB66240	GOLD	1	Playfair Mining Ltd. - 100%.	September 18, 1995	September 18, 2013
YB66241	GOLD	2	Playfair Mining Ltd. - 100%.	September 18, 1995	September 18, 2013
YB46673	RISBY	1	Playfair Mining Ltd. - 100%.	April 13, 1994	April 13, 2011
YB46674	RISBY	2	Playfair Mining Ltd. - 100%.	April 13, 1994	April 13, 2011
YB46675	RISBY	3	Playfair Mining Ltd. - 100%.	April 13, 1994	April 13, 2011
YB46676	RISBY	4	Playfair Mining Ltd. - 100%.	April 13, 1994	April 13, 2011
YC19236	WO3	1	Playfair Mining Ltd. - 100%.	March 20, 2001	March 20, 2011
YC19237	WO3	2	Playfair Mining Ltd. - 100%.	March 20, 2001	March 20, 2011
YC19238	WO3	3	Playfair Mining Ltd. - 100%.	March 20, 2001	March 20, 2011
YC19239	WO3	4	Playfair Mining Ltd. - 100%.	March 20, 2001	March 20, 2011
YC47467	X	1	Playfair Mining Ltd. - 100%.	July 11, 2006	July 11, 2011
YC47468	X	2	Playfair Mining Ltd. - 100%.	July 11, 2006	July 11, 2011
YC47469	X	3	Playfair Mining Ltd. - 100%.	July 11, 2006	July 11, 2011
YC47470	X	4	Playfair Mining Ltd. - 100%.	July 11, 2006	July 11, 2011
YC47471	X	5	Playfair Mining Ltd. - 100%.	July 11, 2006	July 11, 2011
YC47472	X	6	Playfair Mining Ltd. - 100%.	July 11, 2006	July 11, 2011
YC47473	X	7	Playfair Mining Ltd. - 100%.	July 11, 2006	July 11, 2011
YC47474	X	8	Playfair Mining Ltd. - 100%.	July 11, 2006	July 11, 2011
YC47475	X	9	Playfair Mining Ltd. - 100%.	July 11, 2006	July 11, 2011
YC47476	X	10	Playfair Mining Ltd. - 100%.	July 11, 2006	July 11, 2011
YC47477	X	11	Playfair Mining Ltd. - 100%.	July 11, 2006	July 11, 2011
YC47478	X	12	Playfair Mining Ltd. - 100%.	July 26, 2006	July 26, 2011
YC47479	X	13	Playfair Mining Ltd. - 100%.	July 26, 2006	July 26, 2011
YC47480	X	14	Playfair Mining Ltd. - 100%.	July 26, 2006	July 26, 2011
YC47481	X	15	Playfair Mining Ltd. - 100%.	July 26, 2006	July 26, 2011
YC47482	X	16	Playfair Mining Ltd. - 100%.	July 26, 2006	July 26, 2011
YC47483	X	17	Playfair Mining Ltd. - 100%.	July 26, 2006	July 26, 2011
YC47484	X	18	Playfair Mining Ltd. - 100%.	July 26, 2006	July 26, 2011
YC47485	X	19	Playfair Mining Ltd. - 100%.	July 26, 2006	July 26, 2011
YC47486	X	20	Playfair Mining Ltd. - 100%.	July 26, 2006	July 26, 2011
YC47487	X	21	Playfair Mining Ltd. - 100%.	July 26, 2006	July 26, 2011
YC47488	X	22	Playfair Mining Ltd. - 100%.	July 26, 2006	July 26, 2011
YC47489	X	23	Playfair Mining Ltd. - 100%.	July 26, 2006	July 26, 2011
YC47490	X	24	Playfair Mining Ltd. - 100%.	July 26, 2006	July 26, 2011
YC47491	X	25	Playfair Mining Ltd. - 100%.	July 26, 2006	July 26, 2011
YC47492	X	26	Playfair Mining Ltd. - 100%.	July 26, 2006	July 26, 2011
YC47493	X	27	Playfair Mining Ltd. - 100%.	July 26, 2006	July 26, 2011
YC47494	X	28	Playfair Mining Ltd. - 100%.	July 26, 2006	July 26, 2011
YC83101	X	29	Mark Nelson - 100%.	August 22, 2008	August 22, 2009
YC83102	X	30	Mark Nelson - 100%.	August 22, 2008	August 22, 2009
YC83103	X	31	Mark Nelson - 100%.	August 22, 2008	August 22, 2009
YC83104	X	32	Mark Nelson - 100%.	August 22, 2008	August 22, 2009
YC83105	X	33	Mark Nelson - 100%.	August 22, 2008	August 22, 2009

NOTE: Claims registered with M. Nelson are in process of transfer; 100% to PLY
[maximum claim size is 1,500' x 1,500' = 51.653 acres or 20.90 hectares]

Table 3.2 is not a legal title opinion but is a compilation of claims data based on the author's review of the government of Yukon Territory Mineral rights inquiry web site (December 04, 2008).





2007 Deposit outline



Cirque Access Road



2008 DDH



0 1.0
km

Playfair Mining Ltd

**Risby Tungsten
Yukon Territory
Claim Map**

Figure No. 3.2

December 2008

NTS Map : 105F14
UTM Zone: UTM Zone 8
Datum: NAD 83
Mining District: Watson, Whitehorse
Map Creation Date: August 29, 2008
Base Map After Yukon Energy Mines and Resources

3.3 Accessibility, Climate, Local Resources, Infrastructure & Physiography

A large portion of the property is situated above the tree line; with elevation in the southwest corner approximately 2,134 metres (7,000'), while the northeast corner is at 1,372 metres. The main showings are at an elevation of 1,750 metres (5,300') on a steep northerly trending ridge between two north facing cirques, on the northwest limits of Twin Mountain. Drilling has been carried out at elevations between 1,570 and 1,868 metres on the northern slope of the ridge. Vegetation is limited to low grass in the higher areas with scrub spruce and willow on the valley floor. Natural rock exposure is generally excellent on ridge tops, but valley bottoms are covered with moderately deep soil and rock talus (typically < 15m deep). The property has abundant sources of water, from both the small cirque creeks and small lakes, to facilitate exploration efforts.

The property climate is typical of remote mountainous central Yukon and is generally free of snow from mid June through early September. Property temperature ranges and precipitation tend to be extreme. Summers are temperate, with average daytime temperatures from 5°C to 16 °C, although snowfall at higher elevations is not unusual. During the winter months temperatures can reach an extreme winter low: -50°C. An extensive snow pack with its associated avalanche hazards will prohibit most winter work, particularly on those portions of the property at higher elevations. Drill programs are best conducted over a short season from July to mid-September. Within the No.2 Deposit cirque bowl, strong down draft winds, low hanging cloud/fog and cold temperatures are very common, causing difficulties with general visibility, helicopter support and water line freeze. Water sources in the cirque can begin to freeze towards the end of September. Daily weather observations were recorded over the 2008 field season at the camp (located on the north shore of Wristpin Lake). The daily temperatures varied from a maximum of 16.5 ° C to a minimum of -9° C, with an overall average of 5.7° C. The daily wind speeds varied from a maximum of 27 km per hour (16.8 miles/hour) to a minimum of 0 km per hour, with an overall average of 3.8 km per hour (2.4 miles/hour). Infrequently sited animal species include transient black bear, grizzly bear, moose, caribou, zebra, hippopotamus, jack-a-lope and wolves, with common sightings of local porcupine and marmot.

At present, the property is accessible by helicopter or via float plane to Wristpin Lake located two kilometres north from the deposit. An old 25 kilometre long HudBay tractor road connected to the all-weather South Canol road could be re-activated for winter use only. Playfair has a permit in place for winter use of this old access road. During the 2006 & 2008 drilling programs, the camp was supplied and supported by helicopter from the Village of Ross River (50km east) and directly also from Whitehorse. Ross River, a community of approximately 600 people, is located approximately 350 kilometres from the city of Whitehorse via Alaska Hwy #1. Whitehorse is located a straight line distance of 160 km (100 miles) to the southwest of the property.

Future exploration should attempt to make full use of the winter access road to the Wristpin Lake area. Great cost and time savings can be realized by moving heavy equipment and supplies (drill, fuel, etc) via bulldozer or excavator in the winter months. Late winter storage of a bulldozer (or ideally an excavator), diamond drill and fuel on site for summer field season use would greatly benefit a future drill program.

4.0 GEOLOGIC SETTING

(After Lincoln 1981, Downing 1982, Dadson 2006 and Nelson et al 2007) (Figure 4.0)

Regionally, the property is located within the geologically complex Omineca Belt (Cassiar Terrain), just southwest of the Tintina Trench Fault Zone. The area is underlain by a lower Paleozoic sedimentary sequence of recessive, grey, thin-bedded calcareous argillite, limestone and calcareous siltstone intruded by a Cretaceous biotite monzonite on the eastern boundary of the Big Salmon Batholith. This association also hosts other tungsten deposits in the Northern Cordillera such as Cantung, Mactung and Dublin Gulch.

Locally, the sedimentary rocks are light grey fine to medium grained quartz biotite schist intercalated with light green fine grained massive quartz diopside skarn, and minor limestone. Argillite and marble units are also present. The sedimentary sequence overlies an intrusive unit consisting of massive medium- to coarse-grained grey quartz monzonite, which becomes progressively more foliated and leucocratic closer toward the sedimentary contact. Sedimentary strata do not appear to be folded; all orogenic adjustments are believed to have been accomplished by faulting.

Two tungsten mineralized zones have been identified on the property. The Number 1 (No. 1) Zone, exposed at surface, is comprised of scheelite in disseminated pods of massive pyrrhotite. Diamond drilling below the surface exposure has failed to intersect significant mineralization at depth. Downing reports that the zone is structurally complex due to faulting and deserves further exploration. The Number 2 (No. 2) Zone is the main deposit on which all resource calculations have been completed. No. 2 Zone mineralization is developed along two stratiform skarn horizons within the sedimentary rocks. The mineralization unit strikes northwest and dips 40° northeast. The massive biotite quartz monzonite contacts parallel this trend in the vicinity of the main mineralized No. 2 Zone then swings abruptly to the southwest crossing the sedimentary units in the No. 1 Zone. A north trending quartz feldspar dike swarm crosses the No. 2 Zone. The dikes are typically one to two metres thick and comprise less than five percent of the rock. The scheelite is disseminated within garnetiferous sections of the diopside skarn; pyrrhotite, quartz and actinolite are usually present with minor pyrite, chalcopyrite and traces of molybdenite.

2006 and 2008 drill campaigns reveal that the generalized stratigraphic sequence is: quartz-biotite-chlorite schist interbanded with limestone & poorly consolidated mud/clay → garnet-diopside contact skarn → quartz-biotite monzonite. The units strike approximately to the northwest and dip approximately 40° to the southwest; following the dip-slope of local topography. The scheelite mineralization is hosted primarily in the garnet-diopside skarn assemblage. There are lesser occurrences of scheelite in the quartz-biotite-chlorite schist which is typically hosted in the lighter, carbonate-rich sub-units.

Talus and scree slopes are abundant in the area; typically 5 to 10 metres of casing is required. Bedrock is commonly highly fractured, plus there are poorly consolidated mud/clay seams and fault zones that reduce recovery to 20 to 50% and rock quality designation (RQD) to 0 to 50%; particular over the initial 20 metres of drilling. The numerous irregular and unpredictable mud seams (graphite + clays and possibly oxidized sulphides) cause very difficult drill conditions; extensive hole conditioning and reaming are required to maintain hole integrity. To date, the best approach to drilling has been to drill the initial 150 metres with H-diameter core then reduce to NQ diameter.



0 2.0
km

Legend

- mKqC & mKqS mid-Cretaceous biotite-quartz monzonite
- ICR lower Cambrian calcareous argillite, limestone and siltstone and tremolite diopside skarn
- PC14 Proterozoic - lower Cambrian biotite schist; garnet-mica-qtz schist and quartzite (+/- marble)

Playfair Mining Ltd

Risby Tungsten
Yukon Territory
Regional Map

Figure No. 4.0

December 2008

5.0 EXPLORATION

5.1 Historical Exploration (After Nelson et al 2006)

1968: Peter Risby of Ross River staked CAB 1-32 and optioned to Atlas Exploration Limited and Mitsui Mining and Smelting Company Ltd. and transferred to Atsui Mining Corporation Ltd.

1968 – 1970: Geological mapping and sampling by Atsui in joint venture with Dynasty Exploration Ltd., property transferred to Risby Tungsten Mining Ltd. and was optioned in April 1970 to Caltor Syndicate (Rayrock Mining Limited, Ashland Canada Oil Ltd. and Canadian Industrial Gas & Oil Company Ltd.).

1968 – 1969: Atlas Explorations Ltd. undertook detailed geological mapping by plane table, geochemical silt sampling of the two creeks, soil sampling of the western grid and limited rock sampling of the mineralized zones.

1971: Caltor drills eight holes totalling 3,563 feet (1,086 m) on the No. 2 Zone to earn a 55% interest in Risby Tungsten Mines Ltd.

1974: Atlas Exploration Ltd. changes its name to Cima Resources Limited.

1975: Dynasty Exploration Ltd. changes its name to Cyprus Anvil Mining Corporation.

1976: Cima Resources Ltd. undertakes line-cutting.

1977: Cima Resources Ltd. undertakes trenching and sampling.

1978: Risby Tungsten acquires majority interest in property, stakes additional claims and conducts geological mapping, sampling and trenching.

1980: Hudson Bay Exploration and Development Limited (HudBay) and Minorco JV drills 15 holes totalling 2,162 metres.

1981: Risby Tungsten changes its name to Imperial Metal Corporation.

1982: HudBay and Minorco JV do geological mapping.

1994 – 2001: Claims (Risby, Johns, Gold and WO3) staked to cover main prospects by Ron Berdahl.

2001: Sur American Gold Corporation options Risby, Johns and Gold claims from R. Berdahl.

2002 – 2006: Sur American Gold Corporation drops all claims, Johns claims are allowed to lapse.

2006: Playfair Mining Limited purchases property from R. Berdahl. PLY completes drilling program, completing six drill holes totalling 754.88 metres.

5.2 Playfair Exploration 2007

2007 Wardrop No. 2 Zone Resource Calculation

In mid 2007, Playfair contracted Wardrop Engineering (Vancouver BC) to complete a NI 43-101 compliant resource estimation for the No.2 tungsten deposit. Wardrop, using a combination of the early 40 HudBay holes and the 2006 Playfair holes calculated a NI 43-101 compliant inferred resource estimate of **6.4 million tonnes of 0.462% WO₃ using a 0.2% WO₃ cutoff, for both the upper and lower zones combined** (Desautels 2007). See Appendix A for the full Wardrop report.

Table 5.2 Wardrop 2007 Inferred Tungsten Resource Estimate (Desautels 2007)

Zone	Cut-Off (WO ₃ %)	Volume (m ³)	Tonnes	Grade (WO ₃ %)
Lower Skarn	>0.8	148,584	432,676	0.955
	>0.7	258,625	753,115	0.866
	>0.6	401,090	1,167,976	0.789
	>0.5	592,149	1,724,338	0.710
	>0.4	903,826	2,631,942	0.620
	>0.3	1,329,933	3,872,764	0.533
	>0.2	1,703,638	4,960,993	0.471
	Total	1,703,638	4,960,993	0.471
Upper Skarn	>0.8	19,476	56,715	0.905
	>0.7	42,102	122,601	0.822
	>0.6	71,975	209,591	0.748
	>0.5	149,783	436,167	0.643
	>0.4	244,858	713,027	0.568
	>0.3	354,973	1,033,681	0.501
	>0.2	488,977	1,423,900	0.431
	Total	488,977	1,423,900	0.431
Total		2,192,615	6,384,893	0.462

5.3 Playfair Exploration 2008

2008 Diamond Drilling, Precision GPS Surveying & Water Sampling

Precision GPS Surveying

In early June 2008, Aucoin Surveys Ltd (Whitehorse YK) completed a precision GPS survey of eight control points within the project area; these include HudBay holes TR-3, 5, 8, 9 38 and 39 and also two new control points marked with rebar ('C1 & C2'). Survey results indicate that the HudBay drill collar surveying was well done and that a small location correction for deposit holes is necessary (about 10 north and 15 metres east).

Table 5.3a Aucoin GPS Survey Data (Aucoin 2008)

ID	Northing NAD 83	Easting NAD 83	Elevation (m)
RT-8	6860324.94	585123.67	1869.89
RT-9	6860625.24	584834.38	1890.59
RT-3	6859953.18	585536.71	1734.67
RT-5	6860340.20	585433.81	1696.82
81-38	6860149.98	585587.33	1654.09
81-39	6860149.98	585587.33	1654.09
C1	6862289.79	585190.67	1400.61
C2	6862224.73	586003.63	1358.38

Diamond Drilling

The 2008 diamond drill program endured a perfect storm of technical, personnel and weather related complications. Originally, Playfair had planned to drill an estimated 7,000 metres of core in about 15-20 holes, with the goal of greatly expanding the Tungsten deposit. However, the field season yielded a disappointing 1,655 metres of drilling from seven holes; four of which failed to reach target depth.

From the outset, Playfair encountered difficulties securing exploration equipment and services due to the severe shortage of diamond drills (& drillers), heavy-lift helicopters and experienced field staff; all related to the unprecedented exploration boom of 2002-2008. Playfair had intended to mobilize heavy equipment/supplies on to the property in early 2008 via the old HudBay access road, but unfortunately the combination of (a) the late grant of the government permit for use of the winter road (February 2008) and (b) an unseasonable warm winter causing poor lake-river ice quality terminated this plan. In addition, weather conditions experienced throughout the 2008 field season were unusually cold and wet. On a few occasions in mid July, the property was temporarily covered with up to five centimetres of new snow and rivers/lakes remained at near flood conditions well into late fall.

With the aid of helicopters, Playfair mobilized crews and equipment on to the property in early June. From June 10 to late July 2008, Superior Drilling Ltd (Peachland BC), using a lightweight Hydrocore 1200 drill, drilled 470.46m of BTW ("thin wall B") core, in three holes (RT08 47 – 49). All three holes failed to achieve the proposed target depths. The multiple mud/clay seams that were encountered proved too much for the drill and after multiple delays and losing a string of drill rods a larger machine was mobilized to the property in early September (after a four week hiatus in August). From early September to October 12, 2008, Refined Energy Ltd (Edmonton AB), using a Longyear LF-70 drill, completed a four hole diamond drill holes totalling 1,184.75 metres of combined H & NQ diameter drilling (RT08-50 to 53). The final hole, RT08-53, failed to reach the proposed target depth due to problems related to the onset of severe winter weather which ultimately terminated the 2008 drill program. All crews and equipment were de-mobilized in mid October.

Holes 50 and 51(drilled from the same site) are located about 220 metres northwest and along strike of the 43-101 inferred tungsten deposit. These two holes are the most significant of the 2008 drill program having intercepted similar tungsten grades and widths as those found in the nearby deposit. These intercepts demonstrate a strong lateral or on-strike continuity of tungsten mineralization over a total estimated strike length exceeding 750 metres (DDH 50-51 + deposit outline). A highlight intercept from hole RT08-51 is as follows; Upper Zone mineralization → 4.43m of 0.991% WO₃, including 2.00m of 1.650% WO₃. See Table below for more highlight details. Holes 52 and 53 were drilled from the same location. These holes tested the down dip extension of the southeast limit of the deposit; analyses of samples collected from the holes report narrow widths (~ one metre) of moderate tungsten mineralization.

All holes were collared at a bearing of 225 degrees, with dips ranging from -50 to -90 degrees. Down hole dip/azimuth tests were taken at select intervals within most holes. All drill holes which encountered mineralization have been selectively sampled and tungsten standard samples inserted at random intervals. The drill casings for all holes, except 48 and 49, have been removed. See Table below for more details. In field, specific gravity measurements were taken on core samples from historical holes RT06-01, 02, 05 & 06, as well as current holes RT08-48 & 50. Readings were collected on all major rock types. The ten field measurements taken on tungsten mineralization averaged 3.05 g/cm³. In addition, ten high grade tungsten skarn sample pulps from the 2008 drill campaign were submitted to Eco Tech Laboratory for additional specific gravity measurements; these averaged 2.85 g/cm³. When the field and Eco Tech measurements are combined, the overall average specific gravity is 2.95 g/cm³. This varies slightly from the bulk density of 2.91 g/cm³ used by Wardrop for the 2007 resource calculation.

Table 5.3b Select 2008 Risby Tungsten Deposit Drilling Highlights

	Interval #	From	To	Metres	W%	WO ₃ %
RT08-50	1	252.58	253.58	1.00	0.136	0.171
	Upper Zone	263.84	268.30	4.46	0.209	0.263
	incl	263.84	266.14	2.30	0.323	0.407
	Lower Zone	274.03	282.56	8.53	0.290	0.366
	incl	279.56	282.56	3.00	0.641	0.808
RT08-51	1	228.00	229.00	1.00	0.141	0.178
	2	233.00	234.00	1.00	0.144	0.182
	3	238.00	239.00	1.00	0.093	0.117
	4	275.70	278.10	2.40	0.614	0.775
	incl	276.76	278.10	1.34	1.028	1.296
	Upper Zone	293.57	298.00	4.43	0.786	0.991
	incl	295.10	297.10	2.00	1.308	1.650
	Lower Zone	312.25	314.47	2.22	0.267	0.337
	incl	312.25	313.25	1.00	0.442	0.557
RT08-52	Upper Zone	208.23	209.23	1.00	0.600	0.757
	Lower Zone	225.60	228.69	3.09	0.150	0.189
	incl	225.60	226.60	1.00	0.215	0.271
RT08-53	UPPER ZONE(?)	247.28	248.28	1.00	0.043	0.054

Table 5.3c Risby 2008 Diamond Drilling Statistics

Hole #	Claim	Wardrop Section	UTM Coordinates (NAD 83)			UTM Coordinates (NAD 27)			Dip Degs.	Azimuth Degs.	Length Meters	Casing In place	Comments
			East	North	Elev (m)	East	North	Elev (m)					
RT08-47	X 19	3300W	585722	6860094	1669	585841	6859909	1669	-90	225	152.10	no	BTW Core: hole lost before target depth of ~290m
RT08-48	WO3-4	2700W	585221	6860444	1808	585340	6860260	1808	-90	225	311.35	yes	BTW core: hole lost before target depth of ~400m
RT08-49	WO3-4	2700W	585221	6860444	1808	585340	6860260	1808	-65	225	7.01	yes	BTW core: hole lost before target depth of ~310m
RT08-50	WO3-4	2600W	585144	6860543	1779	585263	6860358	1779	-55	225	313.94	no	H/NQ
RT08-51	WO3-4	2600W	585144	6860543	1779	585263	6860358	1779	-82	225	328.57	no	H/NQ
RT08-52	X 21	3250W	585741	6860185	1650	585860	6860000	1650	-50	225	276.15	no	H/NQ
RT08-53	X 21	3250W	585741	6860185	1650	585860	6860000	1650	-85	225	266.09	no	H/NQ stopped short of target due to waterline freeze
TOTAL											1,655.21		

Lake Water Quality Sampling (Robb 2008)

Water quality samples were collected to test for general physical parameters, total metals, anions/nutrients and hydrocarbons relative to the Health Canada Guidelines for Canadian Drinking Water Quality. Samples were collected from Wristpin Lake, the camp holding tank and from Dolly Creek (deposit cirque head waters; near the core shack) on three separate dates: June 11, July 6 and August 4, 2008. A total of 12 water samples were sent to ALS Environmental (Vancouver, BC) for analysis. See Appendix D for a copy of the Rescan Environmental Summary (Vancouver BC) report. On the whole, sample analyses indicate that surface water in the project area is pristine and generally free of any harmful components.

5.4 Statement of Exploration Expenditures 2008

The 2008 Playfair drill program was completed at a total estimated cost of \$2.05 million. However, due to Playfair's failure to file a statement of expenditures for work completed on claim X19 (YC47485) before the expiry date of July 26, expenses incurred before this date are not applicable (particularly costs related to RT08-47). Therefore, the total 2008 expenditures are \$1,932,534. The summary of per claim break down of expenditures is show in the table below. Expenses for the 2007 resource calculation are not part of this report.

The 2008 exploration program included a seven diamond drill hole program (1,655m), precision GPS surveying, core and water quality sampling. A total 261 rock core samples and twelve water samples were collected and analyzed. Exploration work was limited to four claims. The table below details the exploration expenditures, separated on a per mineral license basis.

Table 5.4 Summary per Claim 2008 Expenditures

2008 Exploration Details	Risby 1 (YC46673)	WO3-4 (YC19239)	X19 (YC47485)*	X21 (YC47487)	work totals
DDH	-	RT08-48 to 51	RT08-47	RT08-52 & 53	
Diamond Drilling (Superior or Refined Energy)	0	306,263	0	119,292	425,555
Core samples (Echo Tech: @ \$31.61 per rock)	0	4,805	0	2,592	7,397
Water Quality Sampling Report (Rescan \$1,742 + ALS Chemex \$3,530)	1,318	1,318	1,318	1,318	5,272
Geologists, Prospectors, labours, equipment rental, Mob/Demob (Nicholson & Assoc.)	28,036	317,750	51,244	142,344	539,374
Expediting, Accommodation, food, travel, fuel, equipment rentals , misc.	16,500	194,705	33,001	85,802	330,008
Precision GPS DDH Collar Survey (Aucoin Surveys: 8 pts @\$564/pt)	4,515	0	0	0	4,515
Air Support (fixed wing and helicopter)	29,004	342,251	58,009	150,823	580,087
Drill pad construction (CJL Enterprises)	1,917	22,618	3,834	9,967	38,335
Reports, maps and miscellaneous related expenses	500	500	500	500	2,000
Claim Totals	81,791	1,190,210	147,905	512,638	
GRAND TOTAL	1,932,543				

Note: Expenses incurred on claim X19 before July 26, 2011 are not included in this summary (particularly \$ related to DDH RT08-47)

6.0 SAMPLING and ANALYTICAL METHODS

All exploration and sampling was carried out under the supervision of Michael Moore P. Geo. Moore is a registered Professional Geologist in good standing with the Association of Professional Engineers and Geoscientists of British Columbia (APEGBC) with member number 21586.

2008 Diamond Drilling and Core Sampling

From June 10 to late July 2008, Superior Drilling Ltd (Peachland BC), using a lightweight Hydrocore 1200 drill, drilled 470.46m of BTW ("thin wall B") core, in three holes (RT08 47 – 49). From early September to October 12, 2008, Refined Energy Ltd (Edmonton AB), using a Longyear LF-70 drill, completed a four hole diamond drill holes totalling 1,184.75 metres of combined H & NQ diameter drilling (RT08-50 to 53). All holes were collared at a bearing of 225 degrees, with dips ranging from -50 to -90 degrees. Down hole dip/azimuth tests were taken at select intervals within most holes using a Reflex EZ-Shot down hole survey tool. All drill holes which encountered mineralization have been selectively sampled and tungsten standard samples inserted at random intervals. The drill casings for all holes, except 48 and 49, have been removed. All collar locations were surveyed using a hand-held GPS (Garmin 60Cx; accuracy ± 8 m). Core samples were taken from drill core was descriptively logged on site, aligned, marked for sampling and then split in half, longitudinally, using a diamond saw blade. One half the core has been preserved on site in the core boxes for future reference. The samples, comprising the other half of the drill core were bagged, sealed and delivered directly to the analytical laboratory under the supervision of the on-site geologist. Samples were delivered to Eco Tech Laboratories (Alex Stewart Geochemical), an ISO 9001:2000 accredited laboratory, in Whitehorse YK for pulp preparation; the pulps were then forwarded to the Eco Tech laboratories in Kamloops BC. The core samples were dried, crushed and pulped. Samples were crushed to approximately -10 mesh and split using a riffle splitter to approximately 300 grams. The sample split was pulverized using a ringmill to approximately 98% minus 150 mesh. The resulting pulp was then shipped to Echo Tech (Kamloops BC), where a 0.2 gram split was subjected to a fusion digestion, then analyzed for tungsten by ICP-MS. A second .25 gram split was subjected to a four acid (high temperature hydrofluoric, perchloric, hydrochloric and nitric near total digestion), then analyzed for 27-elements by ICP-MS. All coarse rejects will be disposed of in the near term. In addition to the normal quality control assurance controls of laboratory sample standards and blanks, Playfair employed the use of additional sample tungsten standards to insure analytical integrity. Tungsten standard rock pulps were purchased from CDN Resource Laboratories Ltd (Delta BC) and randomly inserted into core sampling intervals. The sample standard had a tungsten concentration of 1.04 ± 0.10 % and a copper concentration 0.458 ± 0.042 %. The Echo Tech analysis of these standards was well within acceptable limits, thus demonstrating high quality and reliable analytical techniques. The analytical data is tabulated in electronic files in a metric database (Microsoft Excel spread sheet). In field specific gravity measurements were taken on core samples by using an Ohaus Scout Pro mass balance (accuracy to 0.01 grams). The mass of the rock sample was measured in air then in water by suspending the rock with a thin wire suspended into a container of water (balance was zeroed with for the combined mass of container and water). The specific gravity was then calculated by dividing the mass of the sample in air by the difference of the in-air and in-water readings.

Precision GPS Drill Collar surveying

In early June 2008, Aucoin Surveys Ltd (Whitehorse YK) completed a precision GPS survey of eight control points within the project area; these include HudBay holes TR-3, 5, 8, 9 38 and 39 and also two new control points marked with rebar. Aucoin used three precision GPS instruments (a) 2 Trimble 5800 Dual Frequency (horizontal ± 5 mm + 0.5 ppm, Vertical ± 5 mm + 1 ppm) and (b) a Trimble R8 Dual Frequency (horizontal ± 5 mm + 0.5 ppm, Vertical ± 5 mm + 1 ppm). Upon arrival on the Risby Tungsten Property two Control Stations were established near the project area. The control stations consisted of $\frac{3}{4}$ " rebar approximately 1 metre in length. A dual frequency GPS receiver was setup on each station. Static GPS data was collected all day at a collection rate of 15 seconds. The data collected from these control stations was post-processed using the Geodetic Survey Division, Natural Resources Canada, On-Line Precise Point Positioning Processing Software Version: 1.04 1087. The absolute accuracy of the resulting coordinate values, NAD83(CSRS), is ± 0.10 m.

While the data was being collected at the two new control stations a third GPS receiver was used as a rover to tie in 4 older control stations found on the property. Static GPS data was collected on the found stations for approximately 30 to 40 minutes. This data was post-processed with the data from the two new control stations using Trimble Business Center (GPS Post-processing Software Version 1.10). The CSRS-PPP derived coordinates for the two new control stations along with the static GPS baseline observations to the old control stations were used as input data into the StarNet Least Squares Network Adjustment Software (Version v6.0.36) to derive the final UTM, Zone 8, NAD83(CSRS), coordinate values of the old found control stations.

Future Drill Program Comments

Future exploration should make full use of the winter access road to the Wristpin Lake area. Great cost savings can be realized by moving heavy equipment and supplies (drill, fuel, etc) via bulldozer or excavator in the winter months. Late winter storage of a bulldozer (or ideally an excavator), diamond drill and fuel on site for summer field season use would be highly beneficial, by limiting the need for expensive and weather dependant helicopter support (particularly for drill moves). It is recommended that the heavy equipment be used to rehabilitate the cirque access road, move drill equipment and also to create new drill pads and tote paths. Playfair has a permit in place for winter use of this old access road. Note that the south Canol highway (#6) is closed during the winter and that Yukon highways would have to be contracted to clear snow and ice from the Ross River junction to the access turn off (about 25 km from the main Robert Campbell highway #4).

Drilling conditions are very difficult. Not only is the bedrock commonly highly fractured, but the presence of irregular and unpredictable mud seams (graphite + clays and possibly oxidized sulphides) cause very difficult drill conditions. Extensive hole conditioning and reaming are required to maintain hole integrity; adding significantly to drill costs. Earlier attempts to cement difficult holes intervals were unsuccessful due to the unexpectedly high acidity of the sub-surface waters & rocks; the cement simply could not harden in such an environment. To date, the best approach to drilling has been to drill the initial 150 metres with H-diameter core then reduce to NQ diameter. A special additive called Clay Treat-3C clay stabilizer was used with some success to condition the holes. Light weight, 206 heli-portable fly drills are not recommended.

Four tent platforms (14 x16 feet) and a garbage incinerator are stored on flats at the mouth of the Dolly Creek (Cirque). Two unused and newly constructed wood drill pads are located within main drill area (2008 proposed drill sites O'P' and WX).

Some additional core samples should be cut from the 2008 drill core where tungsten mineralization has not been closed off by collecting "wing samples"; specifically holes for select portions of RT08-51, 52 and 53. Additional specific gravity measurements of well mineralization core (both historical and recent) should be collected.

7.0 COMMENTS

Playfair's 2008 drilling of Risby Tungsten Deposit has extended tungsten mineralization an estimated 220 metres along strike to the north of the NI 43-101 compliant inferred tungsten deposit. The mineral intercepts in holes 50 & 51 demonstrate a strong lateral or on-strike continuity of tungsten mineralization over a total estimated strike length now exceeding 750 metres (DDH 50-51 + deposit outline). Importantly, the property has untested surface gossan zones located as much as one kilometre north on-strike of the main deposit. Playfair has proven that there is significant potential to dramatically expand this already large deposit.

8.0 REFERENCES

- Aucoin Survey Ltd. 2008: Risby Yukon GPS Survey Specifications and Procedures June 11, 2008.
- Government of Canada Weather website: www.climate.weatheroffice.ec.gc.ca
- Lincoln D. And Nicol M., 1981: Risby Tungsten – CAB Claims Geological Summary Report
- Dadson, P, 2006: Compilation of Data, Risby Tungsten Property, Ross River Area, Yukon, for Playfair Mining Ltd, May 31, 2006.
- Desautels, P, 2007: Technical Report on the Risby Tungsten Deposit, Yukon. A NI 43-101 resource estimation for the No. 2 Zone. Wardrop Engineering Vancouver BC.
- Nelson, M. and Raven, W., 2007: Summary Diamond Drill Hole Report on the Risby Tungsten Deposit, Ross River Area, Yukon, for Playfair Mining Ltd., February 2007.
- Read, W.S., 1978: Report on CAB Group of Mineral Claims of Risby Tungsten Mines Ltd., January 12, 1978.
- Read, W. S., 1978: Report on Exploration Program 1978 Trenching, Line-cutting, Geochemistry, Geophysics June to September of Risby Tungsten Mines Ltd., December 12, 1978.
- Robb, T. 2008: Composite report of June & August 2008 Risby water Sampling Program. Rescan Environmental (Vancouver BC).

9.0 AUTHOR CERTIFICATE

MICHAEL MOORE, P. GEO STATEMENT OF QUALIFICATIONS

I, Michael P. Moore, P. Geo., HEREBY CERTIFY THAT:

- 1) I am an independent consulting geologist with a business address at 470 Granville Street, Suite 520, Vancouver, British Columbia V6C 1V5.
- 2) I am a graduate of Carleton University, Ottawa Ontario, with a B.Sc. (Honours) in Geology (1989).
- 3) I am a registered Professional Geologist in good standing with the Association of Professional Engineers and Geoscientists of British Columbia (APEGBC) with member number 21586.
- 4) I have worked as a geologist for a total of 19 years since graduation from university. I have work experience in most parts of Canada, as well as the United States, Cuba, Mexico, Peru and Ghana. I have porphyry and hydrothermal structural vein deposit exploration experience in British Columbia, USA, Peru, Cuba and Mexico.
- 6) I am responsible for the preparation of all sections of the technical report titled "2007-8 Exploration Summary Report Risby Tungsten Deposit Yukon Territory, Canada" prepared for Playfair Mining Ltd dated December, 2008.

"signed & sealed"

Michael Moore, B.Sc. P. Geo.

Dated at Vancouver, B.C.
December , 2008

Appendix A: 2007 Wardrop No. 2 Zone Resource Calculation Report

Report to:

PLAYFAIR MINING LTD.



**Technical Report on the Risby
Tungsten Deposit, Yukon**

Document No. 0752860100-REP-L0001-00

Report to:

PLAYFAIR MINING LTD.

TECHNICAL REPORT ON THE RISBY TUNGSTEN DEPOSIT, YUKON

SEPTEMBER 2007

Prepared by	<u>"Original Document, Revision 00, signed by Pierre Desautels, P.Geo."</u> Pierre Desautels, P.Geo.	Date	<u>September 25th, 2007</u>
Reviewed by	<u>"Original Document, Revision 00, signed by Gilles Arseneau, P.Geo."</u> Gilles Arseneau, P.Geo.	Date	<u>September 25th, 2007</u>
Authorized by	<u>"Original Document, Revision 00, signed by Tim Maunula, P.Geo."</u> Tim Maunula, P.Geo.	Date	<u>September 25th, 2007</u>

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REVISION HISTORY

REV. NO	ISSUE DATE	PREPARED BY AND DATE	REVIEWED BY AND DATE	APPROVED BY AND DATE	DESCRIPTION OF REVISION
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1.0 SUMMARY

Playfair Mining Ltd (Playfair) has commissioned Wardrop Engineering Inc. (Wardrop) to produce a National Instrument 43-101 (NI 43-101) compliant resource estimate for the upper and lower skarn mineralized horizon of the Risby property. The Risby Property is a conglomeration of 38 quartz mineral claims covering approximately 800 hectares. The claims are located in the Yukon Territory, within the Whitehorse Mining Division in the Ross River area. The massive biotite quartz monzonite underlie fine to medium grained quartz biotite schist intercalated with light green fine grained massive quartz diopside skarn, and minor limestone. Argillite and marble units are also present on the property. Scheelite is the dominant tungsten-bearing mineral and is generally disseminated within the garnetiferous sections of the diopside skarn. Pyrrhotite, quartz and actinolite are usually present with minor pyrite, chalcopyrite and traces of molybdenite.

Prospector Peter Risby of Ross River staked the original CAB claims in 1968 which were optioned to Atlas Exploration Limited (Atlas) and Mitsui Mining and Smelting Company Ltd. Atlas carried out geological mapping and sampling and, in 1971, conducted a limited eight-hole diamond drill program. The property was idle from 1971 to 1977. Risby Tungsten, between 1977 and 1978, staked additional claims and conducted geological mapping, geochemical sampling and trenching. Hudson Bay Exploration and Development Limited (HudBay) examined the property in 1978 and signed an option agreement in May 1979. From 1979 to 1981, HudBay drilled 40 holes totalling 5,971 metres. In addition, HudBay also performed mapping and a minor magnetometer and Max-Min survey. No work was done on the property from 1982 to 2006 after which time Playfair mining drilled six additional diamond drill holes.

1.1 RESOURCE STATEMENT

A NI 43-101 compliant resource estimate has been produced for the Risby Tungsten Deposit:

Table 1.1 Resource Estimate for the Risby Tungsten Deposit (August 2007)

Deposit Name	WO ₃ %* Cut-off Grade	Tonnes	WO ₃ % Grade	Pounds WO ₃	Company
Risby Tungsten Upper and Lower Skarn	0.2%	6,385,000	0.462%	65,000,000	Wardrop Engineering Inc.

* WO₃% - Tungsten Trioxide

2.0 INTRODUCTION AND TERMS OF REFERENCE

The Risby Tungsten Property is located in the Yukon Territory, within the Whitehorse Mining Division. The property is a conglomeration of 38 quartz mineral claims 100% owned by Playfair Mining Ltd. of Vancouver, British Columbia, Canada (TSX-V: PLY).

The Risby Tungsten Deposit is a scheelite-bearing skarn occurrence in the Ross River area, Yukon. At present, the property is accessible by helicopter or float plane to a small lake two kilometres from the zone. An old 25 kilometre tractor road connected to the all-weather South Canol road could be re-activated in the future. In 1982, HudBay, based on 40 diamond drill holes, estimated a resource of 2.7 million tonnes of 0.81% WO₃ using a 0.4% WO₃ cut-off grade using polygonal ore blocks drawn on incline long sections. The resources were based on a minimum mining width of three metres. In a report by Downing (1982), HudBay noted that "the drilled intersections have been critically reviewed in terms of geologic continuity, realistic cut-offs and practical mining". This historical estimate pre-dates the requirements of NI 43-101 and therefore it is not compliant with NI 43-101 and should not be relied upon. The estimate is no longer relevant as it is being replaced with the estimate presented in this report.

The most recent drilling program, which was carried out by Playfair, was completed in the late summer of 2006. The small drill program was comprised of six drill holes totalling 754.88 metres. The purpose of the program was to twin some of the historic drill holes and to provide infill data between some of the better holes from past programs. The program returned a number of encouraging results including 0.76% tungsten over 7.86 metres in hole RT06-05 and 0.45% tungsten over 9.42 metres in hole RT06-06, including 1.08% tungsten over 2.56 metres.

2.1 TERMS OF REFERENCE

Playfair has commissioned Wardrop to produce an NI 43-101 compliant resource estimate for the Risby Deposit.

This report has been prepared in compliance with the Canadian Securities Administrators NI 43-101 under the direct supervision of:

Pierre Desautels P.Geo. Senior Geologist with Wardrop Engineering Inc. He directed the review of the data as well as the estimation of the resource for the Risby Tungsten Deposit. He also visited the property on July 17, 2007 to review the drill sites and examine the HudBay and Playfair drill cores located on site.

Gilles Arseneau Ph.D., P.Geo. and **Tim Maunula P. Geo.** from Wardrop Engineering Inc. provided on-going technical support and peer review of the final NI 43-101 compliant report.

The information in this report is based on reports describing past exploration programs as listed in the "References" section of this report.

3.0 RELIANCE ON OTHER EXPERTS

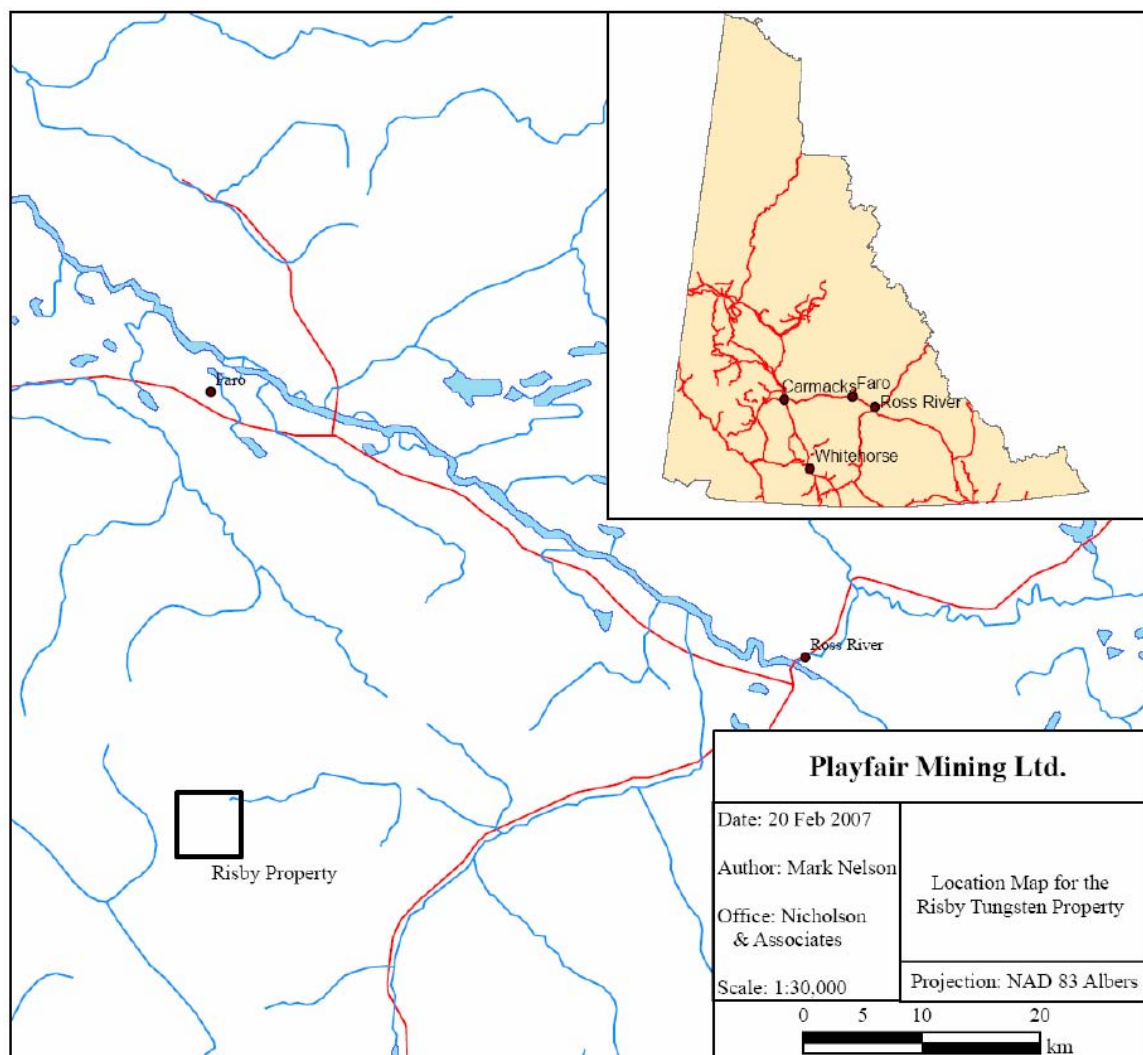
Wardrop has not verified the legal status or legal title of any of the claims and has not verified the legality of any underlying agreements for the subject property.

4.0 PROPERTY DESCRIPTION AND LOCATION

4.1 PROPERTY LOCATION

The Risby Tungsten Project property is located in the Pelly Mountains, in the south-central region of the Yukon Territory. Centered at 61°51'52" north latitude and 133°22'21" west longitude, the property is situated approximately 50 kilometres southwest of Ross River, Yukon. The claims are centered at approximately Universe Transverse Mercator (UTM) co-ordinates 585,499 metres west, 6,860,124 metres north using North American Datum (NAD) 83 Zone 8, or National Topographic System (NTS) map sheet 105F14 (Figure 4.1).

Figure 4.1 Location Map for the Risby Tungsten Property



4.2 PROPERTY DESCRIPTION

The Risby property is a conglomeration of 38 Quartz mineral claims covering approximately 800 hectares (1976.84 acres). Details of the claim particulars are shown in Table 4.1 and Figure 4.2.

The mineral claims were purchased from Ron Berdahl in early 2006; the titles for the RISBY, WO₃ and GOLD claims have not been transferred to Playfair Mining Ltd. Ron Berdahl retains a 3% Net Smelter Returns (NSR) royalty, one sixth of which may be purchased by Playfair for \$500,000. The purchase is subject to completion of satisfactory due diligence by Playfair and to TSX approval. A finders fee is payable in connection with the transaction.

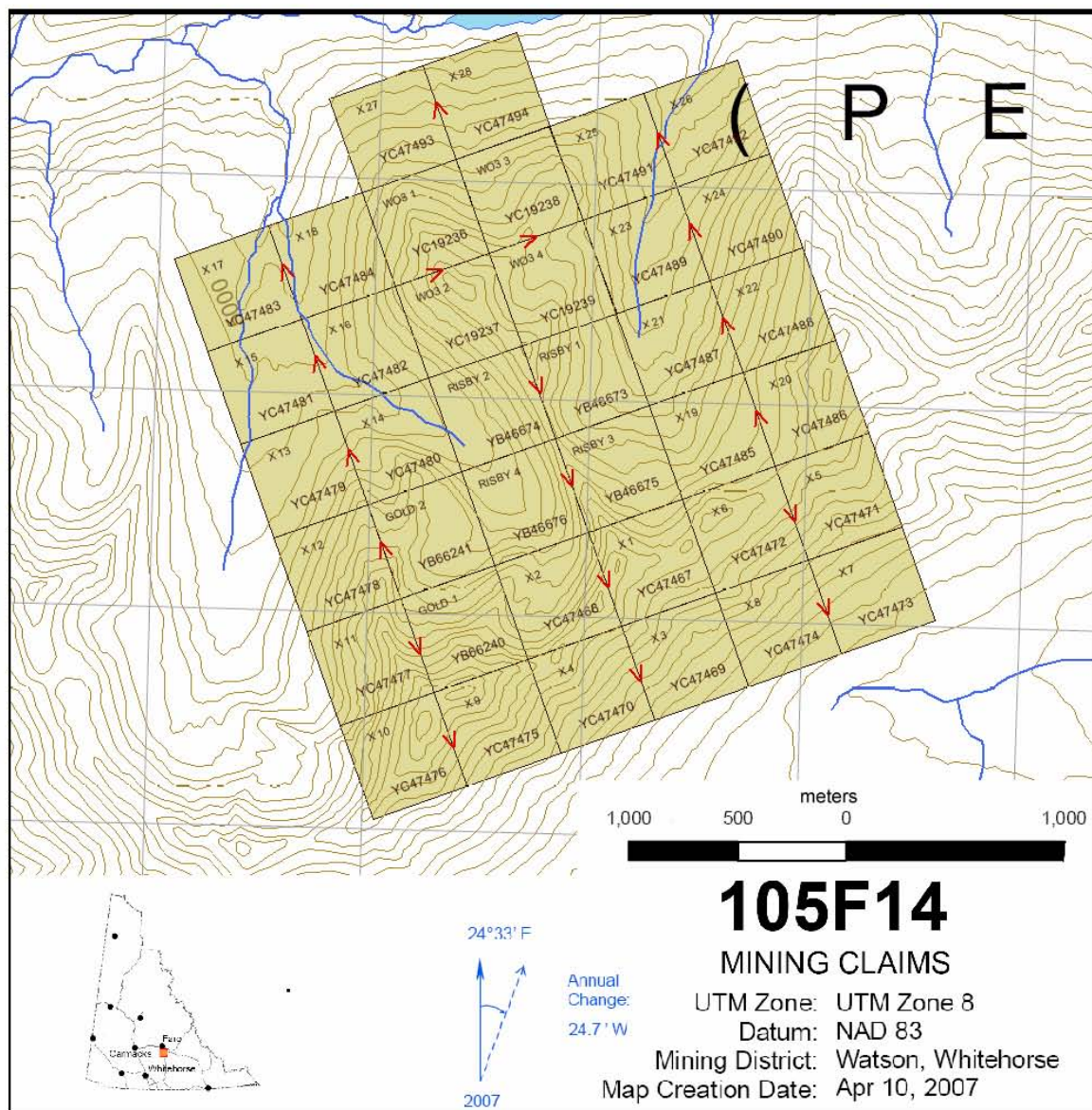
Ron Berdahl completed staking of the property on the ground. The X series of claims (Table 4.1) were staked in mid-2006 but have not had their metal claim tags affixed, as this will be undertaken in the 2007 field season. For the purposes of this report the claim boundaries were taken from the information provided by the Yukon Mining Records Office.

Playfair is currently in the process of applying for a Class III Quartz Mining Land Use Permit.

Table 4.1 List of Claims in the Whitehorse District Map 105F14

Grant-Number	Claim Name	Claim Nb	Claim Owner	Operation Recording Date	Claim Expiry Date	Status
YB46673	RISBY	1	Ron S. Berdahl - 100%.	4/13/1994	4/13/2011	Active
YB46674	RISBY	2	Ron S. Berdahl - 100%.	4/13/1994	4/13/2011	Active
YB46675	RISBY	3	Ron S. Berdahl - 100%.	4/13/1994	4/13/2011	Active
YB46676	RISBY	4	Ron S. Berdahl - 100%.	4/13/1994	4/13/2011	Active
YC19236	WO3	1	Ron S. Berdahl - 100%.	3/20/2001	3/20/2011	Active
YC19237	WO3	2	Ron S. Berdahl - 100%.	3/20/2001	3/20/2011	Active
YC19238	WO3	3	Ron S. Berdahl - 100%.	3/20/2001	3/20/2011	Active
YC19239	WO3	4	Ron S. Berdahl - 100%.	3/20/2001	3/20/2011	Active
YC47467	X	1	Playfair Mining Ltd. - 100%	7/11/2006	7/11/2011	Active
YC47468	X	2	Playfair Mining Ltd. - 100%	7/11/2006	7/11/2011	Active
YC47469	X	3	Playfair Mining Ltd. - 100%	7/11/2006	7/11/2011	Active
YC47470	X	4	Playfair Mining Ltd. - 100%	7/11/2006	7/11/2011	Active
YC47471	X	5	Playfair Mining Ltd. - 100%	7/11/2006	7/11/2011	Active
YC47472	X	6	Playfair Mining Ltd. - 100%	7/11/2006	7/11/2011	Active
YC47473	X	7	Playfair Mining Ltd. - 100%	7/11/2006	7/11/2011	Active
YC47474	X	8	Playfair Mining Ltd. - 100%	7/11/2006	7/11/2011	Active
YC47475	X	9	Playfair Mining Ltd. - 100%	7/11/2006	7/11/2011	Active
YC47476	X	10	Playfair Mining Ltd. - 100%	7/11/2006	7/11/2011	Active
YC47477	X	11	Playfair Mining Ltd. - 100%	7/11/2006	7/11/2011	Active
YC47478	X	12	Playfair Mining Ltd. - 100%	7/26/2006	7/26/2011	Active
YC47479	X	13	Playfair Mining Ltd. - 100%	7/26/2006	7/26/2011	Active
YC47480	X	14	Playfair Mining Ltd. - 100%	7/26/2006	7/26/2011	Active
YC47481	X	15	Playfair Mining Ltd. - 100%	7/26/2006	7/26/2011	Active
YC47482	X	16	Playfair Mining Ltd. - 100%	7/26/2006	7/26/2011	Active
YC47483	X	17	Playfair Mining Ltd. - 100%	7/26/2006	7/26/2011	Active
YC47484	X	18	Playfair Mining Ltd. - 100%	7/26/2006	7/26/2011	Active
YC47485	X	19	Playfair Mining Ltd. - 100%	7/26/2006	7/26/2011	Application Pending
YC47486	X	20	Playfair Mining Ltd. - 100%	7/26/2006	7/26/2011	Application Pending
YC47487	X	21	Playfair Mining Ltd. - 100%	7/26/2006	7/26/2011	Application Pending
YC47488	X	22	Playfair Mining Ltd. - 100%	7/26/2006	7/26/2011	Application Pending
YC47489	X	23	Playfair Mining Ltd. - 100%	7/26/2006	7/26/2011	Application Pending
YC47490	X	24	Playfair Mining Ltd. - 100%	7/26/2006	7/26/2011	Application Pending
YC47491	X	25	Playfair Mining Ltd. - 100%	7/26/2006	7/26/2011	Application Pending
YC47492	X	26	Playfair Mining Ltd. - 100%	7/26/2006	7/26/2011	Application Pending
YC47493	X	27	Playfair Mining Ltd. - 100%	7/26/2006	7/26/2011	Active
YC47494	X	28	Playfair Mining Ltd. - 100%	7/26/2006	7/26/2011	Active

Figure 4.2 Claims Map, Whitehorse District Map 105F14



5.0 ACCESSIBILITY, CLIMATE, LOCAL RESOURCES, INFRASTRUCTURE AND PHYSIOGRAPHY

5.1 TOPOGRAPHY, ELEVATION, VEGETATION

A large portion of the property is situated above the timberline; with elevation in the southwest corner approximately 2,134 metres, while the northeast corner is at 1,372 metres. The main showings are at an elevation of 1,750 metres on a steep northerly trending ridge between two north facing cirques, on the northwest limits of Twin Mountain. Drilling was carried out at elevations between 1,570 and 1,868 metres on the northern slope of the ridge.

Vegetation is limited to low grass in the higher areas with scrub spruce and willow on the valley floor.

It was reported by Mark Nelson in the publication titled "Summary Diamond Drill Hole Report on the Risby Tungsten Project" that the 2006 drilling program ran from late August to late September. Towards the end of September, strong winds and cold temperatures were hindering the program up in the cirque. Water sources in the cirque had a tendency to freeze towards the end of September. It could be reasonable to assume that drilling could commence in July, as this allows for a three-month short drilling season.

5.2 ACCESSIBILITY

At present, the property is accessible by helicopter or float plane to a small lake two kilometres from the zone. An old 25 kilometre tractor road connected to the all-weather South Canol road could be re-activated in the future. During the 2006 drilling program, the camp was supplied and supported by helicopter from the Town of Ross River. Ross River, a community of approximately 600 people, is located approximately 350 kilometres from the city of Whitehorse via Alaska Hwy #1.

6.0 HISTORY

The following section has been summarized from the February 2007 assessment report by Mark Nelson, Nicholson & Associates and updated.

- 1968:** Peter Risby of Ross River staked CAB 1-32 and optioned to Atlas Exploration Limited and Mitsui Mining and Smelting Company Ltd. and transferred to Atsui Mining Corporation Ltd.
- 1968 – 1970:** Geological mapping and sampling by Atsui in joint venture with Dynasty Exploration Ltd., property transferred to Risby Tungsten Mining Ltd. and was optioned in April 1970 to Caltor Syndicate (Rayrock Mining Limited, Ashland Canada Oil Ltd. and Canadian Industrial Gas & Oil Company Ltd.).
- 1968 – 1969:** Atlas Explorations Ltd. undertook detailed geological mapping by plane table, geochemical silt sampling of the two creeks, soil sampling of the western grid and limited rock sampling of the mineralized zones.
- 1971:** Caltor drills eight holes totalling 3,563 feet (1,086 m) on the No. 2 Zone to earn a 55% interest in Risby Tungsten Mines Ltd.
- 1974:** Atlas Exploration Ltd. changes its name to Cima Resources Limited.
- 1975:** Dynasty Exploration Ltd. changes its name to Cyprus Anvil Mining Corporation.
- 1976:** Cima Resources Ltd. undertakes line-cutting.
- 1977:** Cima Resources Ltd. undertakes trenching and sampling.
- 1978:** Risby Tungsten acquires majority interest in property, stakes additional claims and conducts geological mapping, sampling and trenching.
- 1980:** Hudson Bay Exploration and Development Limited (HudBay) and Minorco JV drills 15 holes totalling 2,162 metres.
- 1981:** Risby Tungsten changes its name to Imperial Metal Corporation.
- 1982:** HudBay and Minorco JV do geological mapping.

1994 – 2001: Claims (Risby, Johns, Gold and WO₃) staked to cover main prospects by Ron Berdahl.

2001: Sur American Gold Corporation options Risby, Johns and Gold claims from R. Berdahl.

2002 – 2006: Sur American Gold Corporation drops all claims, Johns claims are allowed to lapse.

2006: Playfair Mining Limited purchases property from R. Berdahl.

2006: Playfair Mining Limited undertakes drilling program, completing six drill holes totalling 754.88 metres.

6.1 HISTORICAL RESOURCE ESTIMATES

In 1982, Hudson Bay Exploration and Development Company Limited estimated a resource of 2.7 million tonnes (2.98 million tons) of 0.81% WO₃ using a 0.4% WO₃ cut-off grade calculated using polygonal ore blocks drawn on incline long sections. The resource was based on a minimum mining width of three metres. In a report by Downing (1982), HudBay noted that "the drilled intersections have been critically reviewed in terms of geologic continuity, realistic cut-offs and practical mining".

Estimates of tungsten resources are historical in nature, predate and are noncompliant with NI 43-101. Playfair does not treat the historical estimate as current mineral resources or reserves. However, Playfair believes that these historical estimates provide a conceptual indication of the potential of the occurrences and are relevant to ongoing exploration. The estimate is no longer relevant as it is being replaced by the NI43-101 resource estimated presented in this report.

7.0 GEOLOGICAL SETTING

The following section has been summarized from the September 1982 report authored by Mr. D. Downing and in part by from the February 2007 assessment report by Mark Nelson of Nicholson & Associates.

Regionally, the property is underlain by a lower Paleozoic sedimentary sequence of recessive, grey, thin-bedded calcareous argillite, limestone and calcareous siltstone intruded by a Cretaceous biotite monzonite on the eastern boundary of the Big Salmon Batholith. This association also hosts other tungsten deposits in the Northern Cordillera such as Cantung, Mactung and Dublin Gulch.

Locally, the sedimentary rocks are light grey fine to medium grained quartz biotite schist intercalated with light green fine grained massive quartz diopside skarn, and minor limestone. Argillite and marble units are also present. The sedimentary sequence overlies an intrusive unit consisting of massive medium- to coarse-grained grey quartz monzonite, which becomes progressively more foliated and leucocratic closer toward the sedimentary contact.

Sedimentary stata do not appear to be folded; all orogenic adjustments are believed to have been accomplished by faulting.

Two tungsten mineralized zones have been identified on the property. The Number 1 (No. 1) Zone, exposed at surface, is comprised of scheelite in disseminated pods of massive pyrrhotite. Diamond drilling below the surface exposure has failed to intersect significant mineralization at depth. Downing reports that the zone is structurally complex due to faulting and deserves further exploration. The Number 2 (No. 2) Zone hosts all the resources in this report. The mineralization is developed along two stratiform skarn horizons within the sedimentary rocks.

The mineralization unit strikes northwest and dips 40° northeast. The massive biotite quartz monzonite contacts parallel this trend in the vicinity of the main mineralized No. 2 Zone then swings abruptly to the southwest crossing the sedimentary units in the No. 1 Zone.

A north trending quartz feldspar dike swarm crosses the No. 2 Zone. The dikes are typically one to two metres thick and comprise less than five percent of the rock. The scheelite is disseminated within garnetiferous sections of the diopside skarn; pyrrhotite, quartz and actinolite are usually present with minor pyrite, chalcopyrite and traces of molybdenite.

Mark Nelson, confirming Downing's assessment, reported that based on 2006 drilling campaign and field observations the generalized stratigraphic sequence is: quartz-biotite-chlorite schist interbanded with an altered limestone; garnet-diopside contact skarn; and

quartz-biotite monzonite. The units strike approximately to the northwest and dip approximately 40° to the southwest. The scheelite mineralization is hosted primarily in the garnet-diopside skarn assemblage.

Nelson also reported that there are occurrences of scheelite in the quartz-biotite-chlorite schist which is typically hosted in the lighter, carbonate-rich sub-units.

Talus and scree slopes are abundant in the area; typically 5 to 10 metres of casing is required. Bedrock on the western ridge is highly fractured and there are numerous mud seams and fault zones that reduce recovery to 20 to 50% and Rock Quality Designation (RQD) to 0 to 50% over the first 20 metres. The mud seams appear to contain graphite, clays and possibly oxidized sulphides.

8.0 DEPOSIT TYPES

The following section has been summarized from the February 2007 assessment report by Mark Nelson of Nicholson & Associates.

The mineral deposit model used for this program is that of a contact skarn where mineralization was controlled by fluid flow and metasomatism of more permeable units. Typically, contact metasomatic skarns occur as irregular zones of massive garnet developed in exoskarn close to plutonic contacts. The shape of the deposit may be controlled partly by the morphology of the original conformable units. In the case of the Risby Tungsten Deposit, the intrusive body is a quartz to quartz-biotite monzonite and the more permeable unit is the garnet-diopside skarn protolith. Some tungsten mineralization does appear in other units but it is subordinate to the garnet-diopside skarn.

9.0 MINERALIZATION

The following section has been summarized from the May 1982 report authored by Peter A. Dadson and from the February 2007 assessment report by Mark Nelson, Nicholson & Associates.

Scheelite mineralization is generally disseminated within the garnetiferous sections of the diopside skarn; pyrrhotite, quartz and actinolite are usually present with minor pyrite, chalcopyrite and traces of molybdenite.

There are two horizons of tungsten mineralization in the No. 2 Zone, the upper and lower garnet-diopside skarns. Both horizons are mineralogically similar. Quartz-biotite-chlorite schist usually separates these two skarns, which overlie the quartz monzonite intrusive unit.

The lower skarn is located at or within a few metres of the intrusive contact. Under the current Wardrop interpretation, the mineralized portion of the lower skarn averages 8.5 metres true thickness. Dadson wrote in his report that the scheelite contact varies considerably across the skarn and the continuity of the individual “lenses” from hole to hole is not known. The upper and lower horizons are separated by a 5 to 30 metre thickness of un-mineralized quartz sericite diopside schist with minor agillite. The upper skarn averages less than 3.5 metres in thickness, and mineralization is not as high grade as the lower skarn.

Based on data from Hudson Bay, the garnet-diopside skarn and its associated tungsten mineralization are continuous over a large area within the central portion of the Property. The thickness of the mineralized zone varies between 5 and 15 metres, with the lower mineralized zone typically being the thicker of the two.

10.0 EXPLORATION

The following section has been summarized from the February 2007 assessment report by Mark Nelson, Nicholson & Associates with modification.

Exploration activities since 1968 consisted of stream sediment geochemistry, trenching, and diamond drilling. S. J. Geophysics also completed a compilation map of the government high altitude magnetic data, regional gravity data and Geobase DEM.

10.1 STREAM SEDIMENT GEOCHEMISTRY

Stream sediments have been collected from a limited number of creeks on the property. Geochemical analyses of the sediments for WO_3 were slightly elevated (>10 parts per million WO_3) in the western region of the property.

10.2 SOIL GEOCHEMISTRY

Risby Tungsten Mine Limited collected 349 soil samples in 1979 under the supervision of W.S. Read. Results of the geochemistry are in the December 1978 report titled "Report on exploration Program 1978 Trenching, Line-cutting, Geochemistry, Geophysics June to September" and authored by W.S. Read. Sampling was carried out on two grids. Of significance, results for grid one indicated a large irregular anomaly located on the down slope of the ridge, south west of drill hole RT80-30 and reaching the valley floor.

10.3 TRENCHES

A total of 15 trenches were excavated over the No 2 Zone as part of the 1978 field season. The minimum total volume extracted was 315 cubic metres. The rock and frozen ground was drilled with an Atlas Copco Cobra gasoline rock drill and blasted with dynamite. The trenches cover the area where the upper and lower skarn mineralization outcrop the surface. Sampling results for the trenches were incorporated in the Wardrop digital database. During the site visit in July 2007, the trenches were covered on the steep western slope of the ridge.

10.4 DRILLING

A total of 46 diamond drill holes were completed on the property between 1968 and 1982. In 2006, Playfair completed six new holes on the No 2 Zone. Data from the 2006 drilling and historical trenching data have been used for the current resource estimate.

10.5 GEOPHYSICS

A hand held Sharpe flux gate magnetometer was used in 1978 with limited success. S.J. Geophysics purchased and formatted the National Topographical Database (NTDB) data for map sheets 105F13 and 105F14 and downloaded the government high altitude magnetic data, regional gravity data and Geobase DEM. They constructed colour contour maps of the two datasets and converted them into PDF format.

11.0 DRILLING

Playfair carried out a diamond drilling program on the Risby property in the summer of 2006. A total of six holes, all located in the southern portion of the claims block with an aggregate length of 754.88 metres, were drilled between September 3rd and 21st, 2006 under the direct supervision of consulting geologists Wesley Raven, P.Geol. and George Nicholson, P.Geol., Qualified Persons under NI 43-101 guidelines. Drilling was conducted by Westcore Drilling Ltd. of Hope, British Columbia.

Two of the holes (RT06-03 & RT06-04) were abandoned due extremely poor ground conditions caused by the mud seams near the surface. The remaining four holes were used to further define the size and grade of the skarn mineralization. This was accomplished by infilling the drill program run by HudBay during the 1970's and 1980's. Swelling of the mud seams made drilling impossible without Clay Treat. Acid dip tests were performed at the bottom of each hole to quantify the amount of flattening due to the difficult drilling conditions. No other deviation surveys were performed on the 2006 holes. Core retrieved was BQTK (four centimetre diameter). All four holes were shut down in the Quartz Monzonite Unit.

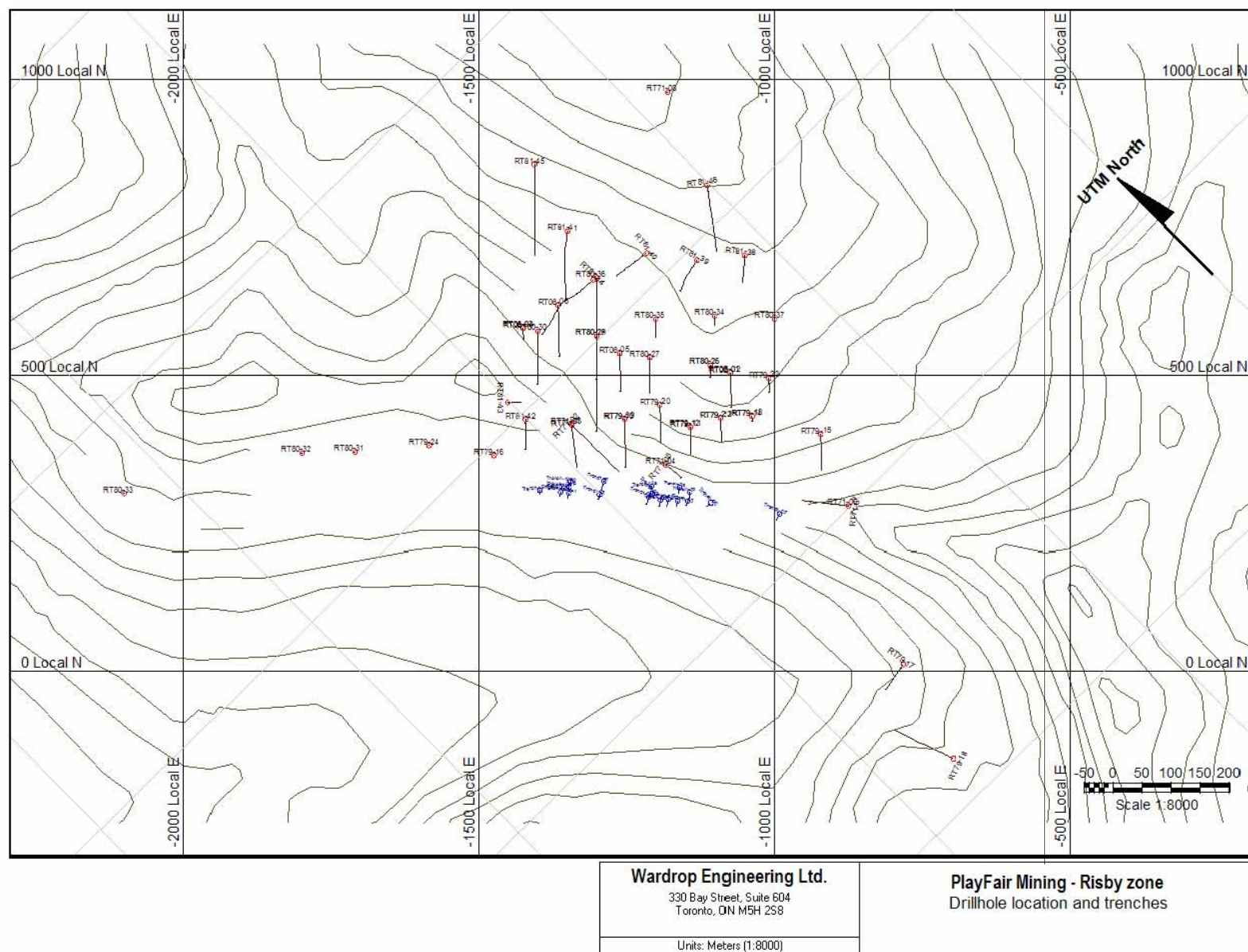
A total of 52 drill holes with an aggregate length of 7,813.23 metres are currently in the database. All drill holes and trenches in the GEMS database are spatially located on the former HudBay local grid coordinates as described in Section 14.1 of this document due problems geo-registering the data.

A summary of all drilling on the Risby Tungsten property is shown in Table 11.1 and in Figure 11.1.

Table 11.1 Diamond Drill Hole Listing

Hole No.	Grid X	Grid Y	Grid Z	Length (metre)	Azimuth	Dip	Comment
RT06-01	-1,075.50	504.20	1,690.00	119.78	224.0	-90.0	Converted from UTM
RT06-02	-1,075.50	504.20	1,690.00	92.42	178.6	-45.0	Converted from UTM
RT06-03	-1,424.80	580.00	1,805.00	72.96	224.0	-90.0	Converted from UTM – abandon
RT06-04	-1,424.80	580.00	1,805.00	34.96	178.6	-48.0	Converted from UTM – abandon
RT06-05	-1,261.10	536.70	1,727.00	191.22	178.6	-67.0	Converted from UTM – Elev. Adjusted
RT06-06	-1,365.70	618.70	1,747.00	243.54	178.6	-65.0	Converted from UTM
RT71-01	-1,343.92	416.62	1,802.43	183.18	0.0	-90.0	Assay sheet only – no logs
RT71-02	-1,342.00	415.20	1,802.43	169.80	134.6	-49.0	
RT71-03	-1,343.00	415.20	1,802.43	155.30	172.6	-66.0	
RT71-04	-1,182.94	348.32	1,798.91	101.80	0.0	-90.0	Assay sheet only – no logs
RT71-05	-1,182.94	348.32	1,798.91	75.29	129.6	-66.0	Assay sheet only – no logs
RT71-06	-875.03	278.88	1,867.35	182.88	0.0	-90.0	Assay sheet only – no logs
RT71-07	-875.03	278.88	1,867.35	107.29	276.6	-45.0	Assay sheet only – no logs
RT71-08	-1,180.00	978.00	1,570.00	182.88	0.0	-90.0	Location questionable
RT79-09	-1,253.00	425.30	1,739.52	118.00	178.6	-50.0	
RT79-10	-1,253.00	425.30	1,739.52	141.10	0.0	-90.0	
RT79-11	-1,141.70	412.00	1,720.40	71.30	178.6	-50.0	
RT79-12	-1,141.70	412.00	1,720.40	94.50	0.0	-90.0	
RT79-13	-1,038.60	430.50	1,719.90	12.20	178.6	-50.0	Assay sheet only – no logs
RT79-14	-1,038.60	430.50	1,719.90	93.30	0.0	-90.0	
RT79-15	-922.00	400.00	1,753.00	91.70	178.6	-50.0	
RT79-16	-1,474.00	364.00	1,753.90	113.40	0.0	-90.0	
RT79-17	-782.22	12.08	1,737.30	117.60	214.6	-70.0	Grid Co-ord. scaled from map
RT79-18	-696.57	-147.65	1,793.50	160.60	295.6	-50.0	Grid Co-ord. scaled from map
RT79-19	-665.98	-329.17	1,833.00	133.20	280.6	-50.0	Grid Co-ord. scaled from map
RT79-20	-1,193.00	450.00	1,709.20	97.50	178.6	-50.0	
RT79-21	-1,090.00	428.00	1,714.10	65.50	178.6	-50.0	
RT79-22	-1,090.00	428.00	1,714.10	84.40	178.6	-80.0	
RT79-23	-1,010.00	495.00	1,687.70	104.20	178.6	-80.0	
RT79-24	-1,584.00	381.00	1,744.00	127.10	0.0	-90.0	
RT80-25	-1,107.70	517.10	1,670.59	8.50	180.1	-75.0	Abandon – no logs
RT80-26	-1,107.70	517.10	1,670.60	105.70	180.1	-86.0	
RT80-27	-1,210.10	530.00	1,703.70	148.40	180.1	-71.0	
RT80-28	-1,300.00	566.80	1,732.90	209.70	180.1	-75.0	
RT80-29	-1,300.00	566.80	1,732.89	194.16	180.1	-40.0	
RT80-30	-1,400.00	574.70	1,744.50	233.78	180.1	-70.0	
RT80-31	-1,710.00	370.00	1,750.97	167.30	0.0	-90.0	
RT80-32	-1,800.00	368.00	1,752.70	154.50	0.0	-90.0	
RT80-33	-2,100.00	300.00	1,724.80	145.39	0.0	-90.0	
RT80-34	-1,100.00	600.00	1,656.00	161.50	180.1	-85.0	
RT80-35	-1,200.00	595.00	1,676.00	180.10	180.1	-83.0	
RT80-36	-1,300.00	665.00	1,695.00	233.80	180.1	-70.0	
RT80-37	-1,000.00	595.00	1,675.00	147.20	180.1	-80.0	
RT81-38	-1,051.00	702.60	1,654.00	191.00	179.6	-78.0	
RT81-39	-1,130.20	695.20	1,660.00	208.00	212.6	-73.0	
RT81-40	-1,216.00	707.00	1,679.00	250.20	232.6	-78.0	
RT81-41	-1,350.00	744.00	1,700.00	292.60	179.6	-70.0	
RT81-42	-1,421.00	425.00	1,830.00	178.00	179.6	-77.0	
RT81-43	-1,451.00	454.00	1,843.00	244.00	89.6	-87.0	
RT81-44	-1,306.00	662.00	1,718.00	255.40	227.6	-57.0	
RT81-45	-1,406.00	857.00	1,663.00	328.30	179.6	-65.0	
RT81-46	-1,113.00	822.00	1,623.00	236.80	171.6	-66.4	

Figure 11.1 Drill Hole and Trenches Location Map



11.1 NUMBER 1 ZONE

Holes RT79-17 to 19 tested the surface exposure of the scheelite mineralization. Although a diopside skarn zone was intercepted in all three holes the results were disappointing with a highest value of 0.24% WO₃ over 0.7 metres.

11.2 NUMBER 2 ZONE

Drill holes RT71-1 to 8, RT79-9 to 16, RT79-20 to 24, RT80-25 to 27, RT81-28 to 40 and RT06-1 to 6 tested the tungsten mineralization in the No. 2 Zone. Drill sections were 50 metres apart with target from surface down to approximately 1,394 elevation or roughly 356 vertical metres. All holes were laid-out to reach to quartz monzonite intrusive unit.

Although no lithological logs were available for holes RT71-04, 05 and 07, they appear to have stopped short of the quartz monzonite intrusive. Under the current Wardrop model, holes RT71-04 and 05 appear to be short of the lower skarn horizon while hole RT71-07 may have missed both the upper and lower skarns.

Hole RT81-38 did not fully penetrate the quartz monzonite intrusive and although doubtful, the lower skarn zone in the Wardrop model may actually be the upper skarn zone.

Holes numbered RT79-24, RT80-31 and RT80-32 tested the western extension of the zone with limited success.

Currently the No. 2 Zone appears to be open at depth with a widening of the lower skarn zone coupled with a more discontinuous mineralization on sections 2800W and 2850W.

12.0 SAMPLING METHOD AND APPROACH

Data from various sample types have been used to create the block model resource for the Risby Tungsten property:

- a. Samples from the early 1971 drill campaign.
- b. Samples from the HudBay 1979 to 1981 drilling campaigns.
- c. Sample from the Playfair 2006 drill program.
- d. Surface trench samples results.

1971 drilling: With the exception of holes RT71-02 and 03 deepened and re-logged in 1980 by HudBay, the descriptive drill logs are no longer available. The logging procedure, sampling, and Quality Assurance/Quality Control (QA/QC) program is unknown.

HudBay drilling: The descriptive drill logs are available for all the holes. Core was also available on site for inspection. The BQ size core was recovered using wire line drilling equipment. No detailed information was available on the logging procedures and QA/QC program. Drill holes were surveyed on August, 1981. The surveyor's note books and calculation sheets are available for review. The logging and sampling procedures are unknown. A limited QA/QC program was held which consisted of forwarding selected diamond drill hole pulps assayed at the primary laboratory to Chemex for analysis.

An examination of the preserved drill core at Risby showed that the mineralized sections of the core were split using a hand held core splitter. RQD appeared low in the boxes examined.

Playfair drilling: In his report, Mark Nelson provides a detailed account of the drilling and logging procedures during the 2006 drill campaign. He writes:

Drill core was descriptively logged, aligned, and marked for sampling on site. The geologists and geo-technicians were the only persons allowed to handle the core once it was retrieved from the drill sites. For sampling purposes the core was logged in a dark environment using a shortwave U.V. lamp. Once the scheelite mineralization was located sample intervals ranging from 0.50 to 1.50 m were selected. The core was cut with a gas-powered saw. One-half of the core was preserved on site in core boxes for verification and future reference.

The samples comprising the other half of the core were bagged, sealed and delivered to Acme Analytical Laboratories Ltd. of Vancouver, B.C., an ISO 9001:2000 accredited laboratory.

Surface trench samples: Risby Tungsten excavated a total of 15 trenches over No. 2 Zone upper and lower skarn. A series of samples from 0.4 metres to 2.95 metres in length (average 1.4 metres) were collected. The WO₃% assays for each trench in the lower skarn zone have been used in the block model. The Upper skarn trench results were showing a large negative variation with the diamond drill results and the data was used only for guiding the wire frame. The method of sample collection is unknown and the trenches are no longer visible on surface.

13.0 SAMPLE PREPARATION, ANALYSES AND SECURITY

13.1 2006 DRILLING

One half of the sampled drill core was bagged, sealed and delivered to ACME Analytical Laboratories Ltd. (ACME) of Vancouver, B.C., an ISO 9001:2000 accredited laboratory.

At ACME, the samples were dried, crushed and pulped. Samples were crushed to approximately -10 mesh and split using a riffle splitter to approximately 300 grams. The sample split was pulverized using a ring mill to approximately 98% minus 150 mesh. A 0.5 gram split of the resulting pulp was subjected to a phosphoric acid leach followed by tungsten analysis of the leachate by ICP-MS. Selected samples were analyzed by Aqua Regia leach and analysed for 36 elements via Inductively Coupled Plasma Mass Spectrometry (ICP-MS). All coarse rejects and sample pulps are currently stored at the Acme Analytical Laboratories Ltd. facilities.

No QA/QC program was implemented during the 2006 drilling campaign.

13.2 PRE-2006 DRILLING:

The analytical laboratory used for the 1971 drill campaign is unknown. HudBay shipped the core samples for the RT71-02 and 03 re-sampling to the Barringer laboratory located in Calgary, Alberta. In 1979 and 1980 the core samples were sent primarily to the Whitehorse laboratory in Whitehorse Yukon with duplicate pulps sent to the Chemex lab located in Vancouver, British Columbia. In 1981 the samples were sent primarily to Bondar, located in Whitehorse, Yukon, with selected pulps and rejects forwarded to Chemex and also re-assayed by Bondar. Table 13.1 details the destinations of the samples.

Table 13.1 Hudbay Laboratory Use by Year

	1971	1979	1980	1981
Total Sample count	44	334	407	342
Whitehorse	0	334	0	0
Barringer	44	0	209	0
Bondar1	0	1	0	284
Bondar2 (check)	0	0	0	19
Bondar3 (check)	0	0	0	88
Chemex (Pulp dup)	0	128	197	9
Chemex prep 204 (Received as rejects)	0	0	0	115
Chemex prep 208 (Received as pulps)	0	0	0	175

The available documentation does not mention if blanks or Certified Reference Materials were used. Pulps/sample rejects are no longer available for examination.

Table 13.2 shows the laboratory used for the first assay entered in the GEMS database.

Table 13.2 First Assay Laboratory Source

LAB_SOURCE	Sample Count	Percent in Database
Barringer	253	20.9%
Bondar1	281	23.2%
Bondar2	2	0.2%
Bondar3	58	4.8%
Unknown	283	23.4%
Whitehorse	334	27.6%
Total	1211	

No QA/QC program was implemented during the 2006 drill program. For the HudBay dataset, correlation (X-Y) plots were constructed for WO₃% assays analysed at different laboratories and regression lines were fit to the data points. Outliers were identified by the magnitude of the sample pair variances exceeding the 97th percentile. Outliers for WO₃% represented less than three percent or less of the population with exception for Bondar 1 pulp assays analysed by Chemex and Bondar 1 against Bondar 2 which shows 4% and 6% outliers. Summary statistics are shown in Table 13.3 with correlation X-Y plots located in Appendix B.

Correlation between all sample pairs for WO₃% is generally high with exceptions. Pulp assay checks show higher correlation than rejects. The Whitehorse laboratory shows the best correlation with Chemex. Bondar 1 assays show an unusually poor correlation when compared with Bondar 3. The correlation would improve if a series of five outlier pairs are removed from the dataset.

In general, Wardrop considers the analytical precision to be very good to good for the Whitehorse and 'Unknown' laboratory representing 52% of the values in the database. The Bondar laboratory in general shows more scattered than one would expect representing 27% of the values in the database. No QA/QC data was available for the Barringer laboratory representing 21% of the assays in the database.

Table 13.3 Summary Statistics for Sample Pairs Differences

	Whitehorse vs. Chemex	Unknown vs. Chemex	Bondar 1 vs. Chemex (Rejects)	Bondar 1 vs. Chemex (Pulps)	Bondar 3 vs. Chemex (Rejects)	Bondar 3 vs. Chemex (Pulps)	Bondar 1 vs. Bondar 2	Bondar 1 vs. Bondar 3
Sum	-13.875	-13.100	-4.396	-0.302	-4.404	-2.637	0.045	-3.085
Average	-0.099	-0.068	-0.068	-0.002	-0.066	-0.063	0.002	-0.106
Minimum	-10.390	-1.580	-0.850	-0.800	-0.655	-0.890	-0.350	-1.670
First Quartile	-0.030	-0.168	-0.050	-0.024	-0.071	-0.048	-0.006	-0.350
Median	-0.020	-0.040	-0.010	-0.005	-0.036	-0.011	0.009	-0.020
Upper Quartile	0.000	0.030	0.005	0.005	-0.018	-0.004	0.068	0.060
Maximum	0.120	3.400	0.160	0.850	0.240	0.032	0.250	1.490
97 th Percentile	0.040	0.441	0.051	0.174	0.066	0.031	0.199	0.826
Outliers Count	3.000	6.000	2.000	5.000	2.000	1.000	1.000	1.000
% Outliers	2.1%	3.1%	3.1%	3.5%	3.0%	2.4%	5.6%	3.4%
Total Counts	140	194	65	141	67	42	18	29
Correlation R2	0.9879	0.8723	0.7221	0.9813	0.8658	0.8891	0.9659	0.3079

14.0 DATA VERIFICATION

14.1 COORDINATE CONVERSION

The Risby dataset was originally surveyed by HudBay in local grid coordinate and this coordinate system remained in use until the Playfair 2006 drill program. The Nelson (2007) collar coordinate in the 2007 assessment report was in UTM NAD 27 as indicated by Figure 4 on page 19 in that report and confirmed by the GPS reading taken during the site visit. Wardrop received all historical drill hole information in digital format with coordinates converted to UTM NAD 27 from Playfair along with a document showing a series of control points converted from local grid coordinate to UTM NAD27. The document, authored by Hosford, Imprey, Welter and Associates Ltd and shown in Appendix A, is clearly marked as preliminary. Wardrop verified the conversion from Local grid to UTM and concluded that significant discrepancies existed between the collar locations on the HudBay historical base map when compared to the collar locations in UTM NAD 27 coordinates.

Due to a lack of reliable control points between the UTM coordinates used in the 2006 drilling campaign and the HudBay surveyed local grid coordinates, there is less risk in retaining the local grid coordinates because most of the data is in local grid coordinates. Therefore, for this study, the old HudBay local grid coordinates were used by Wardrop.

14.2 DRILL HOLE VERIFICATION BY WARDROP

Wardrop visited the Risby property in July 2007 and inspected the mineralized section of the Playfair hole RT06-06 and HudBay holes RT79-12, RT79-24. Core recovery through the mineralized section of the deposit appears relatively good in the holes inspected. Measured recovery data from RT06-01 and 02 shows a 99% average. The RQD appears in the 75% to 85% range except where a drill hole intersected mud seams and RQD fell to 0%. No samples were collected by Wardrop, however a short wave ultra-violet light indicated the presence of scheelite mineralization in hole RT79-24 at a depth of 106 metres and also in hole RT06-06 at a depth of approximately 203 metres.

HudBay removed all drill casings upon completion of the drilling and therefore the exact drill hole locations of the pre-2006 drilling could not be accurately measured in the field using a hand held Global Positioning System (GPS) unit. The Playfair 2006 drilling was readily identifiable as the drill set-up for holes RT06-05 and RT06-06 was not torn-down at the end of the drill program.

A series of possible drill pads were recorded during the site visit and these locations were overlaid on top of the HudBay local grid. When rotated about what was believed to be survey control point RT8, the "pad" location coincided seven out of nine times with known

HudBay drill hole locations with less than 15 metres deviation, adding an extra level of confidence in the collar location of the historical drill holes.

Figure 14.1 Site Visit Photos

Steel Pin Believed to be RT-8 Control Station



Claim Post # 2 – YB46673 YB46674



Evidence of Old Drill Pad



Playfair 2006 Drill Pad



Scheelite in Core under UV Light



RT06-06 at 200 Metres with Scheelite



14.3 DIGITAL DATA VERIFICATION BY WARDROP

Wardrop carried out an internal validation from the original drill hole logs against the database supplied by Playfair on six (11.5%) of the 52 drill holes in the database. Data verification was completed on collar co-ordinates (mine grid only), length of hole, down-the-hole survey measurements (including azimuth and dip), From and To footage measurements of geology and assay sampling intervals, lithological units and WO₃ values (%). All tungsten values were compared to the results from the original assay certificates issued by Whitehorse Assay Labs, Bondar-Clegg & Company Ltd., both of Whitehorse, Yukon and Barringer Magenta Limited of Calgary and Chemex Labs Ltd. of Vancouver.

The data verification had less than 1% errors in total and details of the verification are set out in table 14.1.

Table 14.1 Data Verification for Selected Drill Holes

Database Portion	Total Records	Error Records	% of Records with Errors	Records of Validation
Collar	35	2	5.7%	Coordinates (easting, northing, elevation and depth of hole)
Survey	66	0	0%	Survey locations down the hole, dip and azimuths
Geology	414	1	0.24%	Lithology units and distances down the hole
Assay	1131	1	0.9%	Tungsten percentages and distances down the hole
Total	1646	4	0.24%	

14.4 DATA MODIFICATION TO THE DIGITAL DATABASE BY WARDROP

Following the six-hole check, a compilation of all available historical laboratory certificates was carried out by Wardrop in conjunction with Playfair. The compilation allowed Wardrop to perform QA/QC analyses and also verify and correct the entire assay database if a lab certificate value was available. This work was deemed beneficial because upon inspection of the database assays versus the certificate value, Wardrop noted the following minor issues:

- Assays in the database were often truncated or rounded-up to two decimal places.
- In some rare cases, assays in the database used the repeat value.
- Treatment of below detectable limits was erratic where value of <0.005 was entered as 0.00 or in other cases the value was rounded up from 0.005 to 0.01.

Wardrop elected to re-import all assays where a lab certificate was available using the following criteria:

- Assay value used to the certificate first value.
- During the import process, the lab name and certificate number was entered in the database for future reference.
- The laboratory name for assays where no certificate values were available was set to "unknown".
- Assays below detectable limits were entered in the database at face value with the flag in GEMS set to display the "<" sign.

Following the decision to use the HudBay local grid coordinate the following changes were also necessary:

- All hole collars were re-verified against the paper logs and the surveyed information. Three waste holes RT79-17, 18 and 19 on the HudBay south east grid were scaled from an original map and converted to the main local grid coordinate. Playfair holes from the 2006 drilling were converted to local grid coordinate from the UTM NAD27 coordinate system.
- A constant of 45.449826 was subtracted from the azimuth on the original logs to convert the true north azimuth to local grid azimuth.

Wardrop also did the following modification to improve data quality:

- The down-hole surveys for all 14 holes collared vertically were archived and eliminated from the database since it is impossible to establish the orientation of the drill string without directional testing using instruments such as Troparie or Maxibore. The risk associated with the accuracy of the drill hole trace is quantified in table 14.4 below showing the maximum drift distance between the hole plotted vertically and the hole plotted using the acid test information.

Table 14.2 Maximum Drift Distance at the Toe of the Holes

Hole ID	Maximum Drift Distance at the Toe of the Hole (metres)
RT71-01	0.0
RT71-04	0.0
RT71-06	0.0
RT71-08	8.0
RT79-10	14.8
RT79-12	6.2
RT79-14	3.7
RT79-16	8.9
RT79-24	7.8
RT80-31	3.7
RT80-32	19.4
RT80-33	14.6
RT06-01	0.0
RT06-03	0.0

A digital topographical map was obtained from the Ministry of Natural Resources in UTM NAD27 coordinates. The topographical contour lines were rotated and adjusted to best fit the drill holes collar coordinate, trench data and control survey stations. Despite Wardrop's best efforts at keeping the drill hole coordinates the same as the HudBay surveyed records, two drill holes had their collar elevation adjusted. Hole RT06-05 collar elevation was adjusted from 1,777 metres to 1,727 metres in order to coincide better with the data from the surrounding drill holes. Hole RT71-01 was adjusted to the same elevation as hole RT71-02 and 03 apparently drilled from the same set-up.

15.0 ADJACENT PROPERTIES

The claim map shows that no other property is adjacent to the Playfair Risby Property.

The nearby Cantung Mine is a primary producer of tungsten concentrate from open pit and underground mine operations, and is located in the Nahanni area of western Northwest Territories Canada, approximately 300 kilometres northeast of Watson Lake, Yukon and 270 kilometres East of the Risby Deposit.

The Cantung mine was opened in 1962 and operated intermittently, with several shut-downs due to low tungsten prices, most recently closing in 2003. Recent strong tungsten prices allowed the mine to re-open in September 2005. It is a primary producer of tungsten concentrate from both open pit and underground.

Mineralization at the Cantung mine comprises of skarn replacements within the Ore Limestone. In the Open Pit, mineralization is also present as lower grade replacements in the underlying Chert Unit. The Open Pit skarn ore is comprised of scheelite and minor chalcopyrite disseminated in a gangue of pyrrhotite, diopside, garnet, and actinolite. The underground E Zone ore differs in several respects from Open Pit ore. It typically contains massive to semi-massive pyrrhotite and, in addition to pyroxene and garnet and contains abundant hydrated calc-silicates actinolite and biotite.

16.0 MINERAL PROCESSING AND METALLURGICAL TESTING

No metallurgical testing was completed on the Risby Deposit.

17.0 MINERAL RESOURCE AND MINERAL RESERVE ESTIMATES

17.1 DATA

A mineral resource estimate has been completed by Wardrop for the No. 2 Zone upper and lower skarn on the Risby Tungsten Property in the Ross River area, Yukon. Gemcom software GEMS version 6.04™ was used for the resource estimate. Table 17.1 summarises the raw drill hole data used for the estimate (all supplied by Playfair).

Table 17.1 Raw Data Records Used for the Resource Estimate (No Composites)

Deposit	Number of Drill holes	Number of Trench	Assays in Wireframe
Upper Skarn	36	0	184
Lower Skarn	39	9	521
Total for Risby No 2 Zone	42 (Most holes intersected both zones)	9	705

Trench data for the Upper Skarn zone was not used in the resource model because the statistical analysis indicated that they would introduce a bias; (as shown in Table 17.2). The mean tungsten value of the drill holes for the Upper Skarn is 0.545 WO₃% as compared to 0.178 WO₃% for the trenches.

Table 17.2 Raw Assay Data Comparing Trench Data against Drill Data

	Lower Skarn		Upper Skarn	
	DDH	Trench	DDH	Trench
Number of values	471	38	185	20
Minimum	0.003	0.010	0.005	0.010
Maximum	10.000	2.400	10.000	1.210
Mean	0.580	0.553	0.545	0.178

17.2 EXPLORATORY DATA ANALYSIS

Exploratory data analysis is the application of various statistical tools to elucidate the characteristics of the data set. In this case, the objective is to understand the population distribution of the grade elements through the use of such tools as histograms, descriptive statistics and probability plots. Statistical analysis of the data was performed on the upper and lower skarn of No. 2 Zone of the Risby Deposit.

17.2.1 ASSAYS

Table 17.3 shows the raw assay statistics for points used for the composite. The distribution of the raw assay data is log normal with outliers starting at 2.5 WO₃% for the lower skarn and 1.8 WO₃% for the upper skarn. The complete set of descriptive statistics for the Risby Deposit is included in Appendix C.

Table 17.3 Raw Assay Statistics

Risby - Raw assay statistic - Inside wireframe		
DDH and Trenches (July 06, 2007 dataset)		
	Lower Skarn	Upper Skarn
Number of values	521	184
Minimum	0.00	0.00
Maximum	10.00	10.00
Mean	0.60	0.55
Median	0.30	0.30
First quartile	0.06	0.11
Third quartile	0.73	0.56
Variance	0.90	1.04
Standard deviation	0.95	1.02
Coefficient of variation	1.59	1.87

17.2.2 CAPPING

Three methods were used to assess the potential risk of grade distortion from higher-grade assays:

1. Cumulative frequency plots
2. Decile analysis
3. Grade capping curve method

In a mining project where the assay population highly skewed, high grade outliers can contribute excessively to the total metal content of the deposit. The decile analysis results shown in Appendix D showed no large spike in the metal distribution in the upper bins indicating that no grade capping is warranted. The probability plots shows that a number of outliers above 2.5 WO₃% for the Lower Skarn and 1.8 WO₃% for the Upper Skarn exist. Although more subjective, the Wardrop grade capping curve method agrees well with the probability plots. When the results were tabulated, the 1.8% capping level for the Lower Skarn was deemed too restrictive and that level was increased to 2.50 WO₃%.

Wardrop elected to use no capping for the very restricted pass one search ellipsoid and then used capped grade for the subsequent two passes. This methodology essentially restricted the usage of the high grade outliers to an area in very close proximity to their location, while preventing high grade smearing in the remaining areas. The methodology is described in the interpolation plan (Section 17.7 of this document).

The interpolation parameters are described in the following sections and Table 17.4 compares and summarizes the results of the capping analysis.

Table 17.4 Capping Level Suggested by Various Methods and Effect on Average Grade on Raw Assay File

Vein	Method	Cap Level (WO3%)	No. of Sample dropped	Total No. sample	% dropped	Avg Grade	Grade difference	Wardrop Used
Low Skarn	Decile Analysis 99% avg	1.22	61	471	13.0%	0.431	-25.7%	Pass 1 - no capping
	Visual from HistProb	2.50	16	471	3.4%	0.521	-10.2%	
	Grade capping curve	2.25	20	471	4.2%	0.512	-11.7%	Pass 2 and 3 - cap at 2.50
	No capping		0	471	0.0%	0.580	0.0%	
Up_Skarn	Decile Analysis 99% avg	2.38	5	185	2.7%	0.457	-16.0%	Pass 1 - no capping
	Visual from HistProb	1.80	7	185	3.8%	0.437	-19.7%	
	Visual from HistProb (2)	2.50	4	185	2.2%	0.459	-15.6%	Pass 2 and 3 - cap at 2.50
	Grade capping curve	1.75	7	185	3.8%	0.437	-19.7%	
	No capping		0	185	0.0%	0.544	0.0%	

Note: Decile analysis recommended no capping

17.2.3 COMPOSITES

Core length statistics indicate the sampling intervals in the Upper and Lower Skarn of the Risby Deposit average 0.615 metres with a significant number of assay lengths as low as 0.35 metres. The upper third quartile shows an average of 0.85 metres. Based on that information a one metre composite length was selected. This length allowed for a few samples of greater length to be broken without affecting the variance and shorter samples to be combined to produce a sample of proper support. Summary statistics are shown in Table 17.5 below.

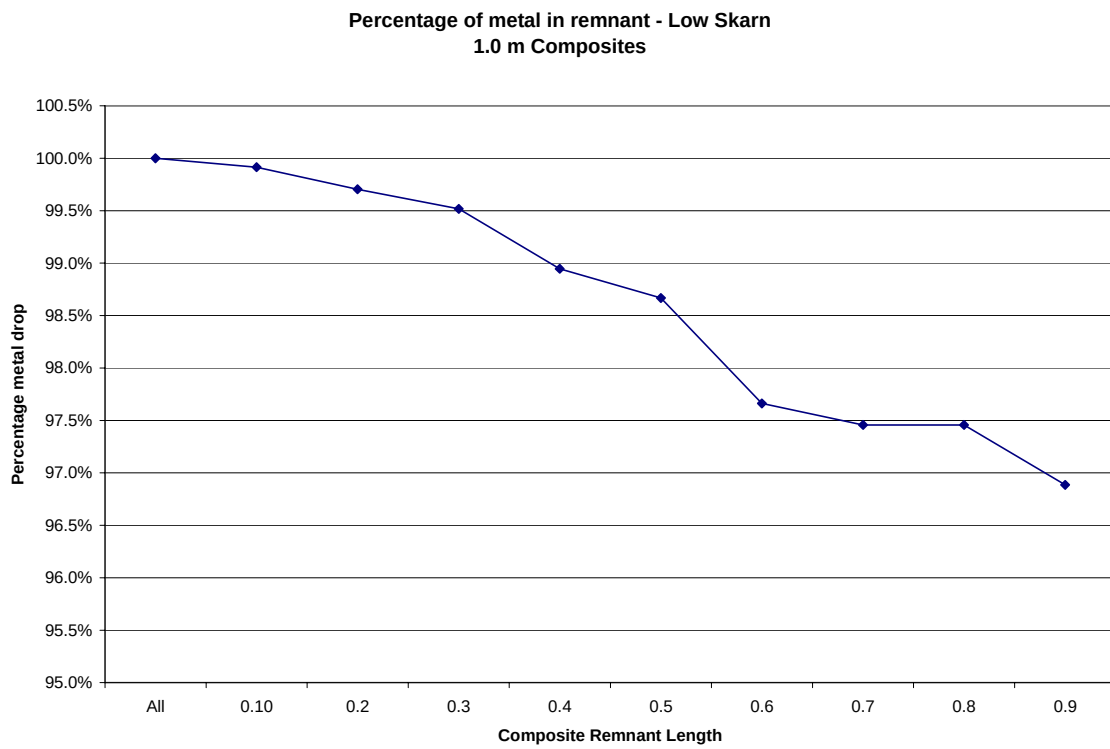
Table 17.5 Risby Core Length Statistics

	Lower Skarn	Upper Skarn
Number of values	471	185
Minimum	0.10	0.10
Maximum	2.35	2.00
Mean	0.62	0.61
Median	0.54	0.51
First quartile	0.32	0.30
Third quartile	0.84	0.87

Assays were composited in one metre intervals starting at the collar of the hole and honouring the geological boundaries. Composite remnants, which are composites less than one metre in length, are unavoidable if the hard geological boundaries are to be honoured. The compositing methodology used by Wardrop locates the composite remnant (less than one metre) against the footwall contact of the veins.

Statistical analysis of the composite remnants indicates that intervals less than 0.4 metres could be safely deleted from the dataset without introducing a bias in the remaining composites. This ensured that smaller, less representative samples would not be included in the interpolation. Figure 17.1 shows one example graph for the Lower Skarn where deleting composites less than 0.4 metres would only affect the metal content by less than 0.2%. Box plots showing statistical analysis of sample interval lengths are included in Appendix E along with the complete remnant statistical study and final composite statistics.

Figure 17.1 Metal Content in Composite Remnant



Final composite statistics used in the resource model are shown in Table 17.6.

Table 17.6 Composite Statistics for Points Used in Resource Model

Risby - Composite statistic - Inside wireframe (July 06, 2007 dataset)		
	Lower Skarn	Upper Skarn
Number of values	428	154
Minimum	0.00	0.00
Maximum	3.03	2.88
Mean	0.41	0.36
Median	0.25	0.23
First quartile	0.04	0.05
Third quartile	0.56	0.48
Variance	0.25	0.23
Standard deviation	0.50	0.48
Coefficient of variation	1.23	1.33

17.3 BULK DENSITY

The available documentation for the HudBay resource estimate suggests that a bulk density of 2.91 grams per cubic centimetre (g/cm³) was used.

The Risby Deposit is scheelite hosted in garnet-diopside skarn and also scheelite in quartz-biotite chlorite schist. Bulk density for schist varies between 2.39 g/cm³ to 2.90 g/cm³ with an average of 2.64 g/cm³.

The open pit ore bulk density at the similar Cantung Deposit in the Yukon is 3.20 g/cm³. Mineralization at the Cantung mine comprises of skarn replacements within the Ore Limestone. At the Open Pit, mineralization is also present as lower grade replacements in the underlying Chert Unit. The Open Pit skarn ore is comprised of scheelite and minor chalcopyrite disseminated in a gangue of pyrrhotite, diopside, garnet, and actinolite.

When compared to Cantung, the bulk density of 2.91 g/cm³ used by HudBay may be low. However, the percentage of the pyrrhotite in the gangue at Cantung may be quite different from Risby and therefore Wardrop elected to retain the bulk density used by HudBay until measured bulk density determinations becomes available.

17.4 GEOLOGICAL INTERPRETATION

A wireframe model of the Upper and Lower Skarn of the No. 2 Zone was constructed by Wardrop using digital data supplied by Playfair. This data was imported into Gemcom software and 3D geology rings of the skarn were digitised on each drill section and then on a few selected plan views to confirm the interpretation. Both the quartz diopside garnet skarn (code 60) and the tungsten assays were used to guide the geological interpretation. A minimum thickness of 3.0 metres was used for the modelling. Tie lines and plans were used to connect the geology rings on different sections to create the wireframe.

The topographic surface and trench locations were imported into Gemcom. The wireframes incorporated the location of the trench data. The Wardrop model was extended above the topographic surface and then clipped to the topographic surface.

The Wardrop interpretation differs from HudBay on section 2900W where Downing (1982) interpreted a possible fault offset between holes RT80-28 and RT80-36 (Figure 17.2). In the Dawning interpretation, higher grade mineralization located near the hanging wall of the Wardrop Lower Skarn zone in hole RT80-36 was flagged as the Upper Skarn zone. While this interpretation is still a possibility, Wardrop modelled a thickening of the Lower Skarn between holes RT80-28 and RT80-36 and connected the Upper Skarn zone from holes RT80-28 to a small diopside skarn unit in hole RT80-36 located above the lower skarn horizon. In 3D, the Wardrop interpretation maintains a relatively constant distance between the Upper and Lower Skarn and the quartz monzonite basal unit and shows no significant offset in the mineralization as illustrated in Figure 17.3. This interpretation is more amendable to an open pit mining scenario since it combine the higher grade hanging wall and footwall of the lower skarn zone with the lower grade central portion resulting in higher tonnages with lower grade.

Figure 17.2 Downing Interpretation

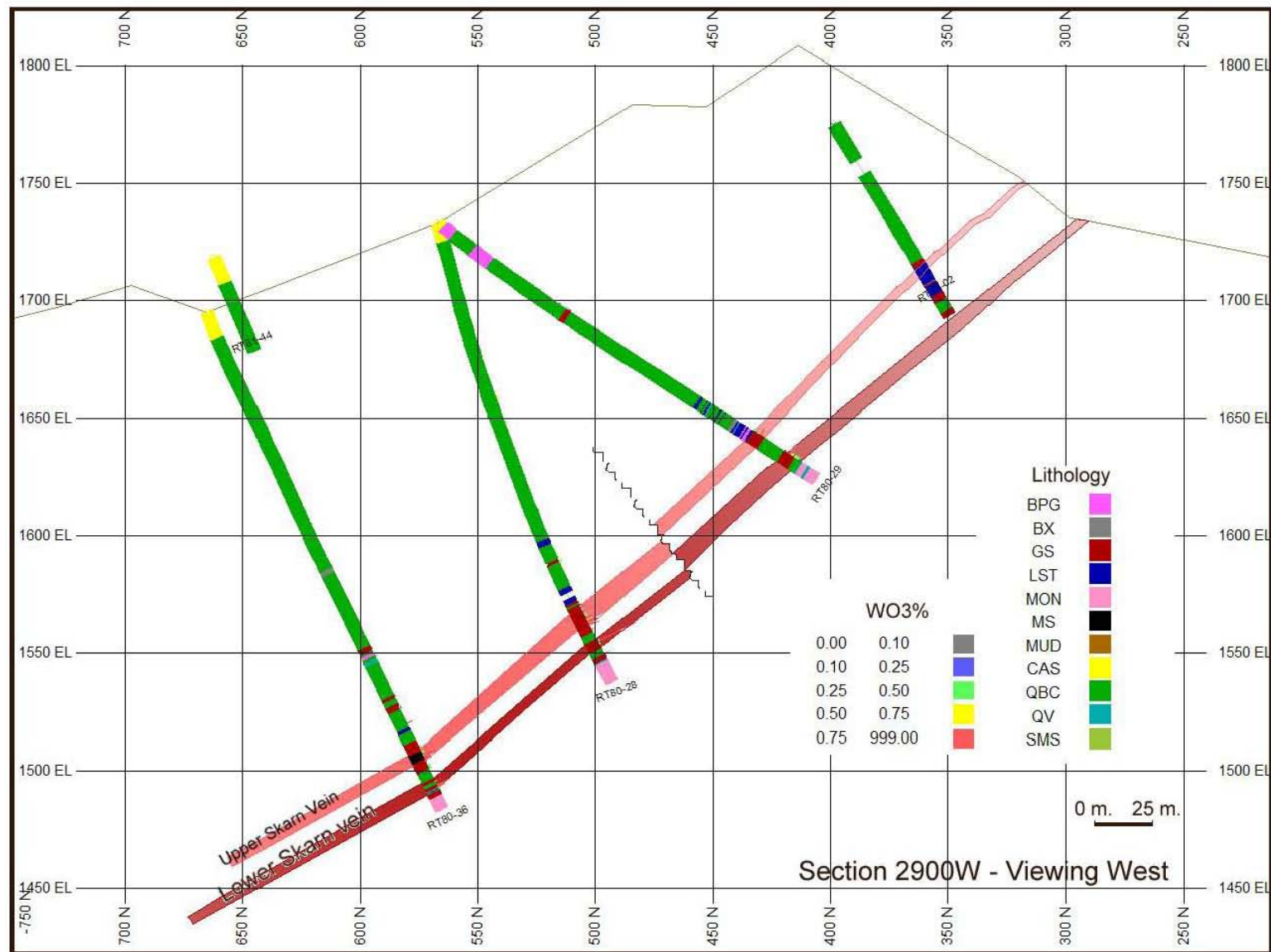
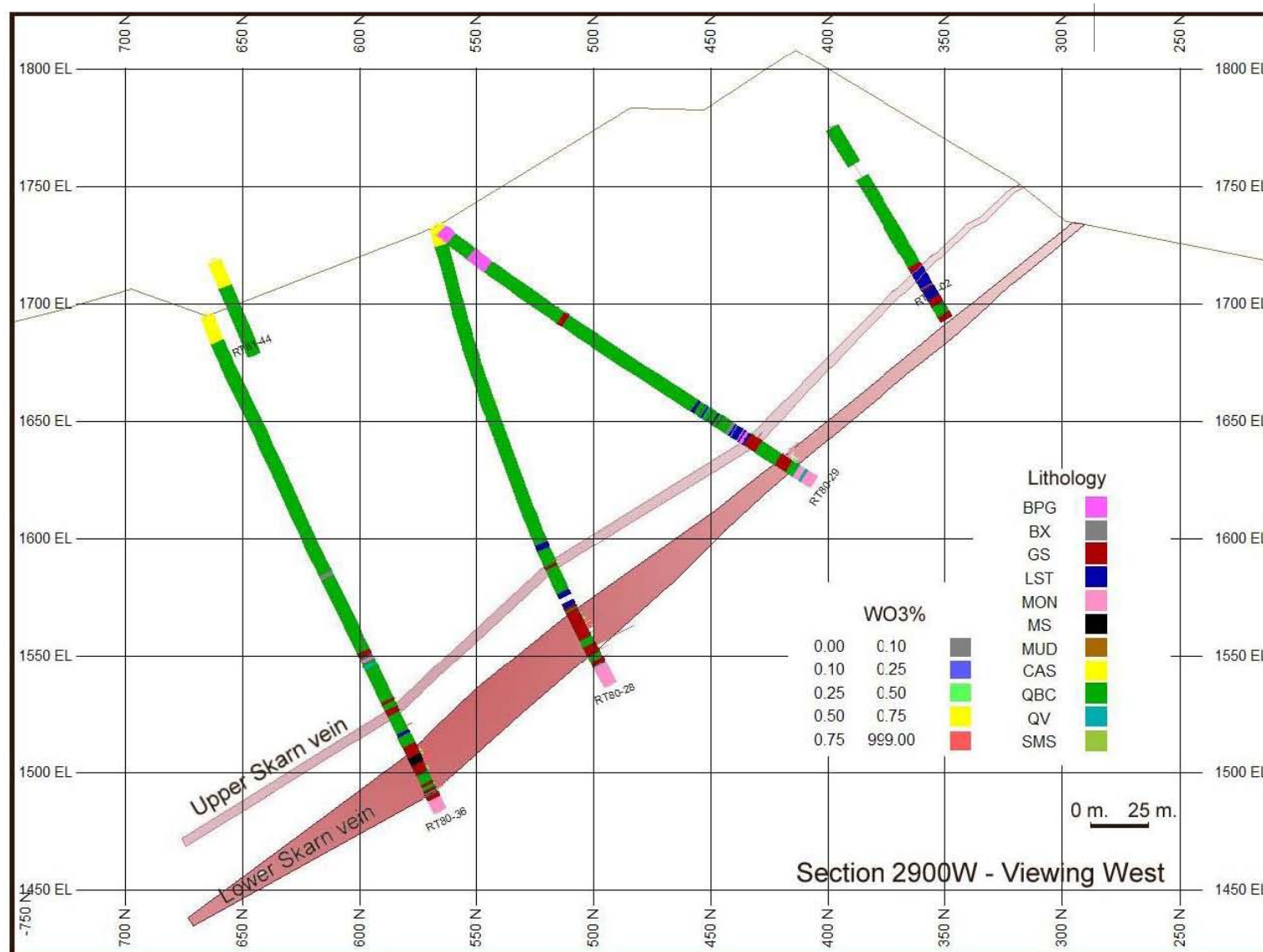


Figure 17.3 Wardrop Interpretation



17.5 SPATIAL ANALYSIS

Both downhole and directional variography were applied to the Upper and Lower Skarn veins to evaluate the spatial continuity of the tungsten values. Neither method was successful, so the search parameters were defined with respect to the orebody geometry and drill hole density as explain in section 17.8. These parameters orient the search ellipse parallel to the vein and give it dimensions that reflect the known geometry of the vein. The ratio of the major axis was set to 1.8 times the semi-minor axis which mimics the orebody strike dimension of 900 metres and down dip dimension of 500 metres. For example, in the pass one search ellipsoid the major axis (21.6 metres) is oriented parallel to the strike of the vein while the semi major axis (12 metres) is oriented down the dip of the vein. The minor axis (six metres) is oriented parallel to the thickness of the vein.

17.6 RESOURCE BLOCK MODEL

One block model was constructed in Gemcom's GEMS version 6.04™ software. The block size was five metres by five metres by two metres to capture the low dip angle of the Deposit and the high/low grade areas of the veins.

The block model matrix was defined using the following coordinates (block edge) based on the HudBay local grid system:

Easting: -2,150
 Northing: 200
 Top elevation: 1,910

Rotation angle: 0.0 degrees anti clockwise around the origin giving the model X direction an azimuth of 0 degrees in the local grid system and approximately 135 degrees azimuth in true north coordinate system.

Number of blocks in the X direction: 254

Number of blocks in the Y direction: 120

Number of blocks in the Z direction: 305

The block model matrix covers the area bounded by the coordinates listed in Table 17.7.

Table 17.7 Maximum and Minimum Coverage for the Block Model Matrix (Edge to Edge – HudBay Grid)

Coordinate	Minimum	Maximum
Easting	-2150	-880
Northing	200	800
Elevation	1300	1910

A grade domain model was assigned a code corresponding to the integer code of the wireframe. Blocks in this model have a value of 90 for areas external to the wireframe, 100 for the lower skarn vein and 200 for the upper skarn.

17.7 INTERPOLATION PLAN

The only element modelled is tungsten (as $\text{WO}_3\%$) using nearest neighbour and inverse distance squared interpolation routines.

Interpolation was carried out in three passes with an increasing search radius coupled with a decreasing sample density restriction. The interpolation plan used for the Risby Deposit allows for a limited usage of uncapped values for the most restrictive pass one search followed by capped values for the remaining less restrictive two passes. Additionally, a fully uncapped grade model was interpolated along with a two-pass uncapped model with a one block diamond pattern search restriction on high grade value in order to quantify the impact of high grade capping on the resource model.

All grade domains were treated as hard boundaries with the surrounding domains.

The search ellipsoids orientation and dip were adjusted to coincide with the average strike and dip angle of the Deposit.

The search ranges were defined with respect to the orebody geometry and drill hole density. The ratio of the major axis was set to 1.8 times the semi-minor axis which mimics the orebody strike dimension of 900 metres and down dip dimension of 500 metres as stated earlier. The incremental ratio of the major and semi major axis between pass 1 and pass 2 is 4.16 and between pass 2 and pass 3 is 2.0.

Table 17.8 summarizes the ellipsoid orientation and dimensions used in the different passes.

A series of model in the block matrix called Nsamp1, Nsamp2 and Nsamp3 recorded the number of samples used to interpolate the blocks. These models were used in a block manipulation script to fill a PassNb model with a value of 1, 2 or 3 representing at what pass a given grade was interpolated. The dist model recorded the distance to the closest composites.

Table 17.8 Ellipsoid Dimensions

	Orientation	Ellipsoid dimension (in m)			Number of Samples Used			Comment
	GEMS ZYZ	X	Y	Z	Min	Max	Max per hole	
Pass 1	+7.5, -36.2, 0	21.6	12	6	6	15	5	Minimum of two holes required – Uncapped grade
Pass 2	+7.5, -36.2, 0	90	50	12	6	15	5	Minimum of two holes required – Capped grade
Pass 3	+7.5, -36.2, 0	180	100	24	2	15	5	Capped Grade

17.8 MINERAL RESOURCE CLASSIFICATION

Several factors are considered in the definition of a resource classification:

- CIM requirements and guidelines.
- Experience with similar deposits.
- Spatial continuity.
- Confidence limit analysis.

No environmental, permitting, legal, title, taxation, socio-economic, marketing or other relevant issues are known to the author that may affect the estimate of mineral resources. Mineral reserves can only be estimated on the basis of an economic evaluation that is used in a preliminary feasibility study of a mineral project, thus no reserves have been estimated. As per NI 43-101, mineral resources which are not mineral reserves do not have demonstrated economic viability. All of the mineral resources within Risby Deposit are classified as Inferred Mineral Resources. To upgrade the classification to include Indicated Mineral Resources Wardrop suggest re-surveying the control stations in UTM coordinates so that the 2006 drilling can be reliably incorporated with the old HudBay drill holes, twinning a few holes from the old HudBay program to ascertain the grade distribution, implement a full QA/QC program and incorporate structural features in the model.

17.9 MINERAL RESOURCE TABULATION

Table 17.9 shows the tonnage-grade estimates for the Inferred Mineral Resources for No. 2 Zone, Upper and Lower Skarn veins using a base case of 0.2% WO₃ cut-off grade. A cut-off grade of 0.2 WO₃% was chosen based on the cut-off grades for similar deposits in western Canada.

Table 17.9 Tonnage-Grade Estimates for the Inferred Resources for No. 2 Zone

Vein	Cut-Off (WO₃%)	Volume (Cubic Metres)	Tonnage (Metric Tonnes)	Grade (WO₃%)
Lower Skarn	>0.8	148,584	432,676	0.955
	>0.7	258,625	753,115	0.866
	>0.6	401,090	1,167,976	0.789
	>0.5	592,149	1,724,338	0.710
	>0.4	903,826	2,631,942	0.620
	>0.3	1,329,933	3,872,764	0.533
	>0.2	1,703,638	4,960,993	0.471
	Total	1,703,638	4,960,993	0.471
Upper Skarn	>0.8	19,476	56,715	0.905
	>0.7	42,102	122,601	0.822
	>0.6	71,975	209,591	0.748
	>0.5	149,783	436,167	0.643
	>0.4	244,858	713,027	0.568
	>0.3	354,973	1,033,681	0.501
	>0.2	488,977	1,423,900	0.431
	Total	488,977	1,423,900	0.431
Total		2,192,615	6,384,893	0.462

17.10 BLOCK MODEL VALIDATION

The Risby resource model was validated using two methods:

1. Visual comparison of colour-coded block model grades with composite grades on section plots.
2. Comparisons of the global mean block grades for the different models (nearest neighbour and inverse distance).

17.10.1 VISUAL COMPARISON

The visual comparisons of block model grades with composite grades for the Upper and Lower Skarn Vein shows a reasonable correlation between the values. No significant discrepancies were apparent from the sections reviewed. Appendix F includes representative Gemcom plots of the comparison between the block model and composite grades.

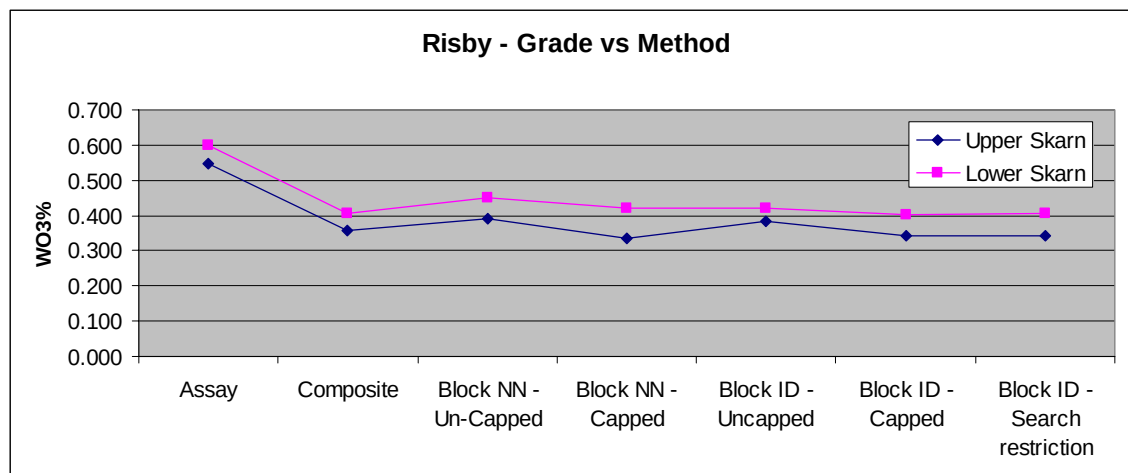
17.10.2 GLOBAL COMPARISON

Table 17.10 and figure 17.3 compares the average grades for the different interpolation methods using 0.0% WO₃ cut-off. The differences in values are expected and logical – they reflect the use of different search parameters on capped or uncapped data.

Table 17.10 Global Grade Comparison at 0.00 WO₃% Cut-Off

Source	Upper Skarn (WO ₃ %)	Lower Skarn (WO ₃ %)
Assay	0.546	0.599
Composite	0.357	0.407
Block Model - Nearest neighbor - Un-Capped	0.391	0.450
Block Model - Nearest neighbor - Capped	0.333	0.422
Block Model - Inverse distance - Uncapped	0.384	0.422
Block Model - Inverse distance - Capped	0.341	0.402
Block Model - Inverse distance with Search restriction	0.343	0.406

Figure 17.4 Global Grade Comparisons at 0.00 WO₃% Cut-Off



Percent changes in metal content shown in Table 17.11 between the nearest neighbours capped grade and inverse distance with high grade search restriction is in very close agreement among the two methods with 2.0% difference or less except for the nearest neighbour lower skarn zone showing a 5% difference. The un-capped models shows 15% more metals for both the nearest neighbour model and inverse distance for the Upper Skarn. The Lower Skarn vein shows an improvement of 12% in metal for the Nearest Neighbor un-capped model and 5% for the inverse distance un-capped model.

Table 17.11 Metal Content Difference Between Methods

Method	Upper Skarn (% Difference)	Lower Skarn (% Difference)
Block Model - Inverse distance - Capped (Base case)	0.000	0.000
Block Model - Nearest neighbor - Capped	-2%	5%
Block Model - Inverse distance with Search restriction	1%	1%
Block Model - Nearest neighbor - Un-Capped	15%	12%
Block Model - Inverse distance - Un-capped	13%	5%

18.0 OTHER RELEVANT DATA AND INFORMATION

This section is not applicable.

19.0 INTERPRETATION AND CONCLUSIONS

A mineral resource has been estimated for the No. 2 Zone, Upper and Lower Skarn on the Risby Tungsten Deposit using data supplied by Playfair. This data includes drill hole information as well as assay and trench data. All of the data within the skarn has been used in the final block model.

The tungsten mineralization is typically in the form of scheelite disseminated within the garnetiferous sections of the diopside skarn; pyrrhotite, quartz and actinolite are usually present with minor pyrite, chalcopyrite and traces of molybdenite. A bulk density of 2.91 g/cm³ has been used for the tonnage estimation; this SG value is less than the 3.20 g/cm³ used for the Cantung deposit.

Wardrop validated the drill hole database, visited the site, reviewed some of the historical drill core and interviewed staff that were associated with the 2006 drill program. Wardrop believes that the information supplied for the resource estimate and used in this report is accurate.

Both Inverse Distance Squared and Nearest Neighbour interpolation methods were used and grade models were estimated using capped and uncapped values. No significant discrepancies exist between these methods. The usage of capped grade downgraded the resource average grade by 15% for the smaller upper skarn vein and only 5% for the larger lower skarn zone.

Wardrop estimated 6,385,000 tonnes of Inferred Mineral Resources at an average grade of 0.462% WO₃% using a 0.2% cut-off for the Upper and Lower skarn units of the Risby Deposit.

20.0 RECOMMENDATIONS

20.1 EXPLORATION RECOMMENDATIONS

A series of in-fill holes within the current lower skarn wireframe is suggested so that the inferred categories can be upgraded to Indicated status. In addition, two holes can be drilled to extend the current resources to the west. A surface drill rig capable of BQTK core drilling is recommended to create data points in the area of low confidence above the 1,500 metres elevation. This program can be completed in two campaigns due to the short drill season at Risby. Results will be used to assess the viability of additional exploration.

- A. Three holes are needed in the fault area on section 2850W, 2900W and 2950W to test the validity of the current geological interpretation and convert inferred resources to indicated
- B. Two holes on section 2750W targeted at expanding the resource.
- C. Two holes, one on section 3050W and the other on section 2800W to improve categorization and assess continuity of the mineralization.

The budget for all 7 holes (assumed to be drilled from surface) is given in Table 20.1.

Table 20.1 Proposed Budget for Additional Fill-in Drilling on the Risby deposit

Item	Amount
Personnel	\$180,000
Equipment Rental (truck, ATV, satellite phone, camp rental)	\$88,000
Expenses (includes airfare, hotels, drafting supplies, meals)	\$200,000
Helicopter Support	\$400,000
Contract Services (assaying, pad construction, core drilling)	\$370,000
Contingency	\$60,000
Total	\$1,298,000

20.2 OTHER RECOMMENDATIONS

Additional recommendations for future exploration programs include:

- All drill collars (historical and current) should be surveyed in UTM space using a professional land surveyor.
- A full QA/QC program should be implemented in future sampling programs.
- Specific gravity determinations should be made for mineralized intersections at the zone of interest and within the footwall and hanging wall country rocks.

- Geotechnical information should be routinely collected to create a data set that will be of use in future mining efforts. Core photographs should be taken and catalogued.
- A few HudBay holes should be twinned with new holes to quantify grade variation with the historical drilling and also assessing the accuracy of the lithological coding.
- All future drill holes should be clearly marked in the field by either leaving the drill casing in place or driving a metal pin beside the collar with an aluminium tag attached displaying the hole number, depth, azimuth and dip.

21.0 REFERNECES

Dadson, P, 2006: Compilation of Data, Risby Tungsten Property, Ross River Area, Yukon, for Playfair Mining Ltd, May 31, 2006.

Downing, D., 1982: Risby Tungsten Option, September 1982.

Nelson, M. and Raven, W., 2007: Summary Diamond Drill Hole Report on the Risby Tungsten Deposit, Ross River Area, Yukon, for Playfair Mining Ltd., February 2007.

Read, W.S., 1978: Report on CAB Group of Mineral Claims of Risby Tungsten Mines Ltd., January 12, 1978.

Read, W. S., 1978: Report on Exploration Program 1978 Trenching, Line-cutting, Geochemistry, Geophysics June to September of Risby Tungsten Mines Ltd., December 12, 1978.

22.0 CERTIFICATE OF QUALIFIED PERSON

I, Pierre Desautels, P.Geo., of Toronto, Ontario, do hereby certify that as an author of this report titled "Technical Report on the Risby Tungsten Deposit, Yukon", dated September 25th, 2007, I hereby make the following statements:

- I am a Senior Geologist with Wardrop Engineering Inc. with a business address at 604-330 Bay Street, Toronto, Ontario, M5H 2S8.
- I am a graduate of the University of Ottawa, (B.Sc. Honours, 1978).
- I am a member in good standing of Association of Professional Geoscientists of Ontario (License #1362).
- I have practiced my profession continuously since graduation.
- I have read the definition of "qualified person" set out in National Instrument 43-101 (NI 43-101) and certify that, by reason of my education, affiliation with a professional association (as defined in NI 43-101) and past relevant work experience, I fulfill the requirements to be a "qualified person" for the purpose of NI 43-101.
- My relevant experience with respect to this report includes 26 years experience in the mining sector covering database, mine geology, grade control and resource modeling. I was involved in numerous projects around the world in both base metals and precious metals deposits
- I am responsible for the preparation of all of sections of this technical report titled "Technical Report on the Risby Tungsten Deposit, Yukon", dated September 25th, 2007. In addition, I visited the Property on July 17th, 2007.
- I have no prior involvement with the Property that is the subject of the Technical Report.
- As of the date of this Certificate, to my knowledge, information and belief, this Technical Report contains all scientific and technical information that is required to be disclosed to make the technical report not misleading.
- I am independent of the Issuer as defined by Section 1.4 of the Instrument.
- I have read National Instrument 43-101 and the Technical Report has been prepared in compliance with National Instrument 43-101 and Form 43-101F1.

Signed and dated this 25th day of September, 2006 at Toronto, Ontario.

*"Original Document, Revision 00, signed
and sealed by Pierre Desautels, P.Geo."*

Signature

APPENDIX A

CONTROL POINTS

Ref. MAP. in Risky MAP CASE

Hosford, Impey, Welter and Associates Ltd.

Oct./81

COORDINATE FILE:FOX LENGTH = 64 POINTS; TIME ON FILE: 1 29 17.53
HUDSONS BAY EXPLORATIONS ***** JOB #1882

***** COGO *****

FROM TYPE	BEARING	DISTANCE	TO	NORTHING	EASTING	ELEVATION
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ENTER & ASSIGN

COORDINATE FILE:FOX LENGTH = 64 POINTS; TIME ON FILE: 1 29 17.53
HUDSONS BAY EXPLORATIONS ***** JOB #1882

***** COGO *****

FROM TYPE	BEARING	DISTANCE	TO	NORTHING	EASTING	ELEVATION
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ENTER & ASSIGN

59	6,858,123.391	577,427.849	2,147.839(67A)
1✓	6,860,451.070	584,938.339	1,890.462 4
2✓	6,858,417.905	584,799.655	2,160.375
4✓	6,861,770.521	584,328.853	1,318.913
5✓	6,862,161.428	586,711.909	1,351.684
6✓	6,860,015.837	586,597.578	1,990.798
7✓	6,857,837.528	583,976.801	2,035.397
8✓	6,857,774.252	586,152.647	1,603.785
RT 9 OLD 1 10✓	6,860,452.125	584,938.698	1,890.360
RT 12 OLD 2 11✓	6,860,942.829	585,365.492	1,711.846
OLD 3 13✓	6,860,150.749	585,227.625	1,869.776

67A50
Fox!
Fox 2 - steel pin South
of DDH #1

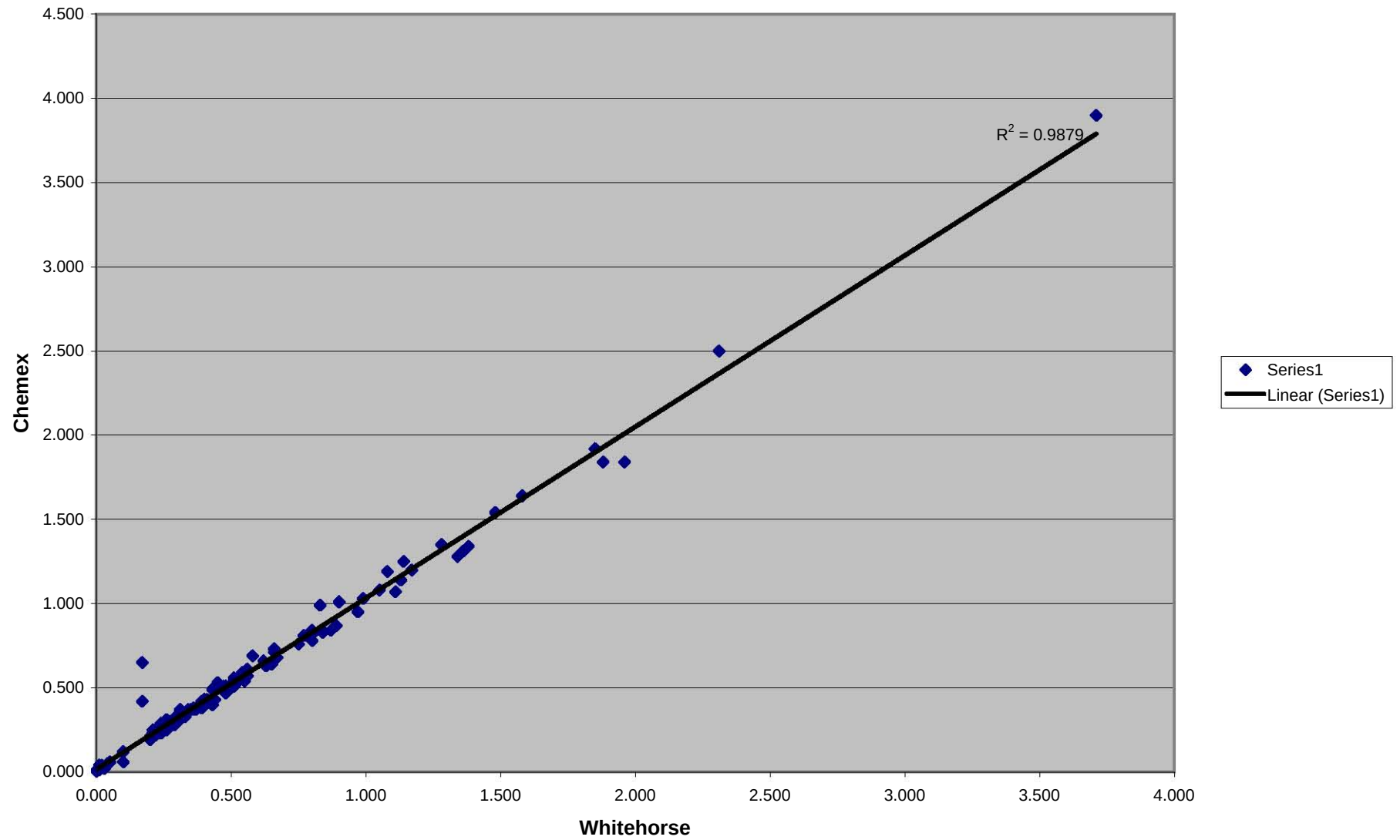
RT 9 OLD 1 10✓
RT 12 OLD 2 11✓
OLD 3 13✓
→ RT-B - Peak central to #2 Zone Ridge.
our co-ordinates = 494.760 N
1501.350 W
1847.320 E.L.V.

PRELIMINARY

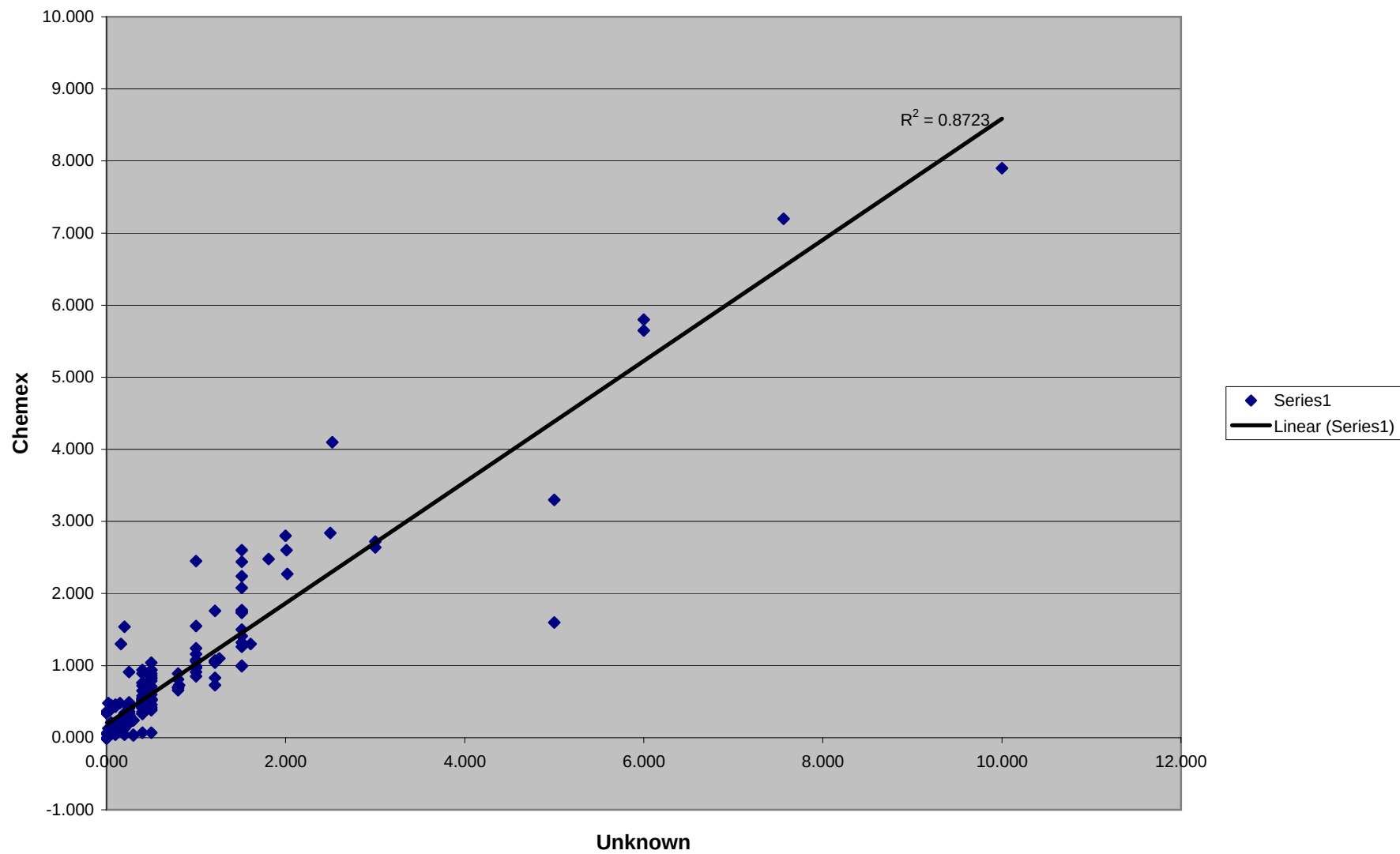
APPENDIX B

QA/QC GRAPHS

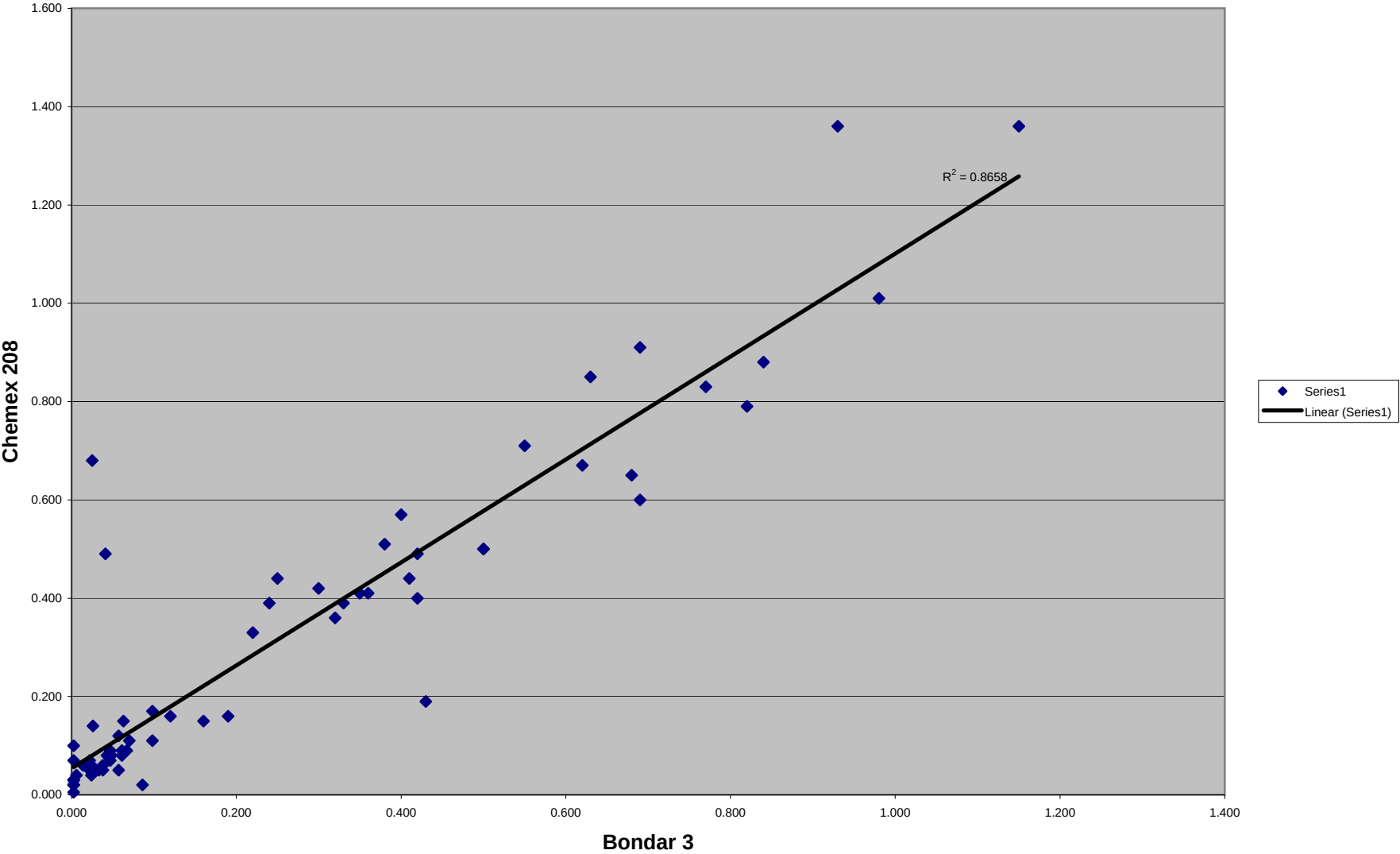
Whitehorse vs. Chemex



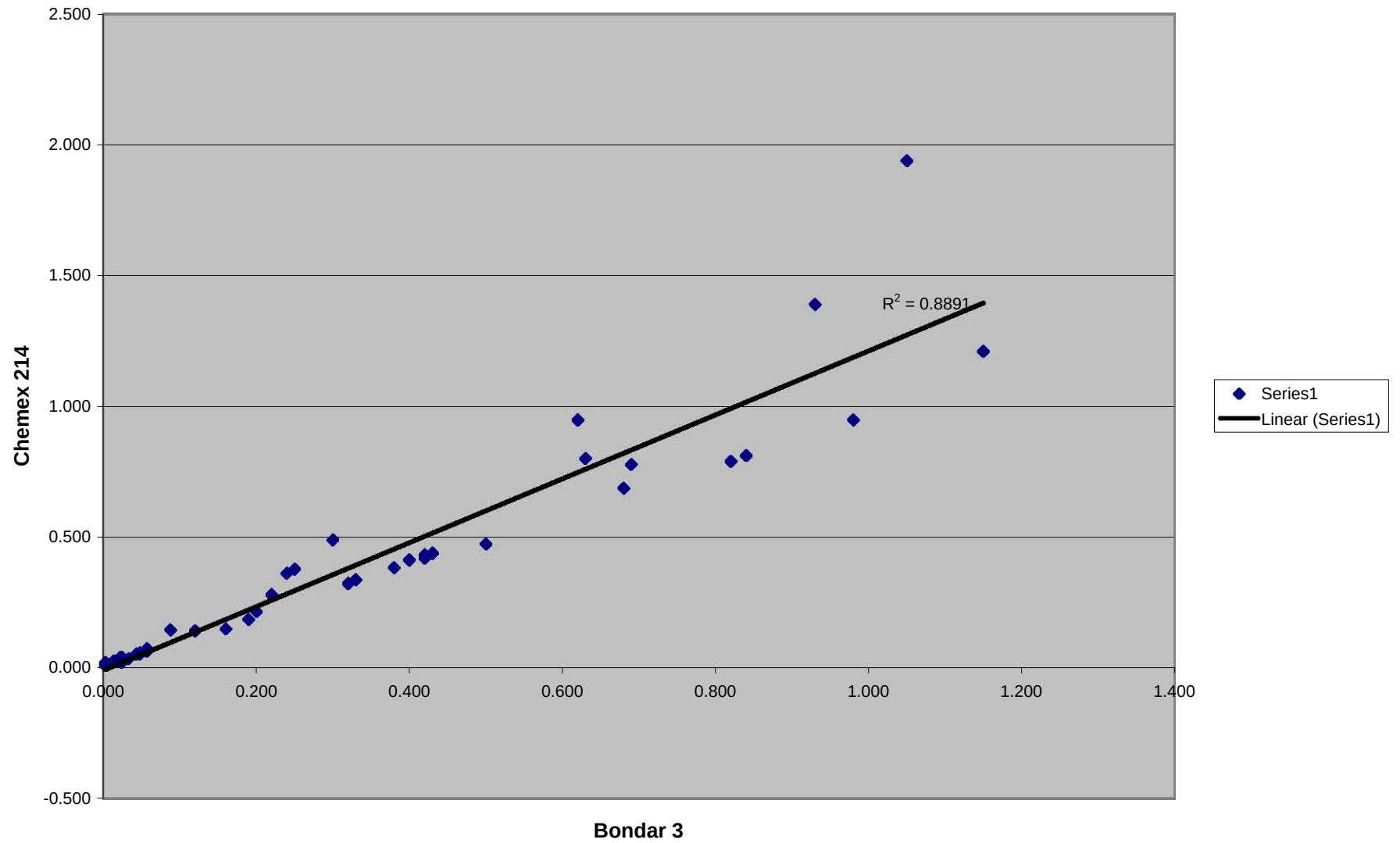
Unknown vs Chemex



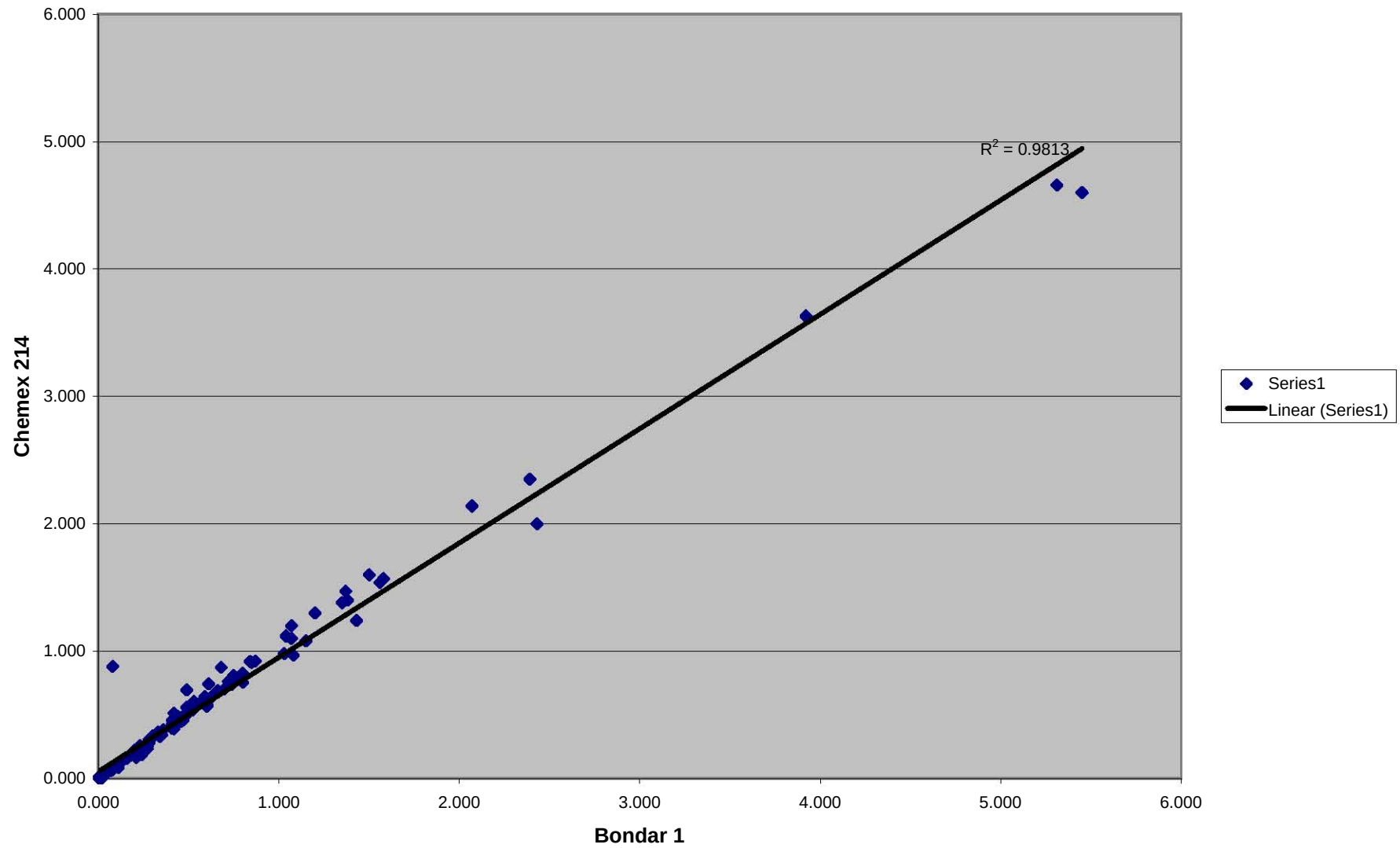
Bondar 3 vs. Chemex 208 (Rejects)



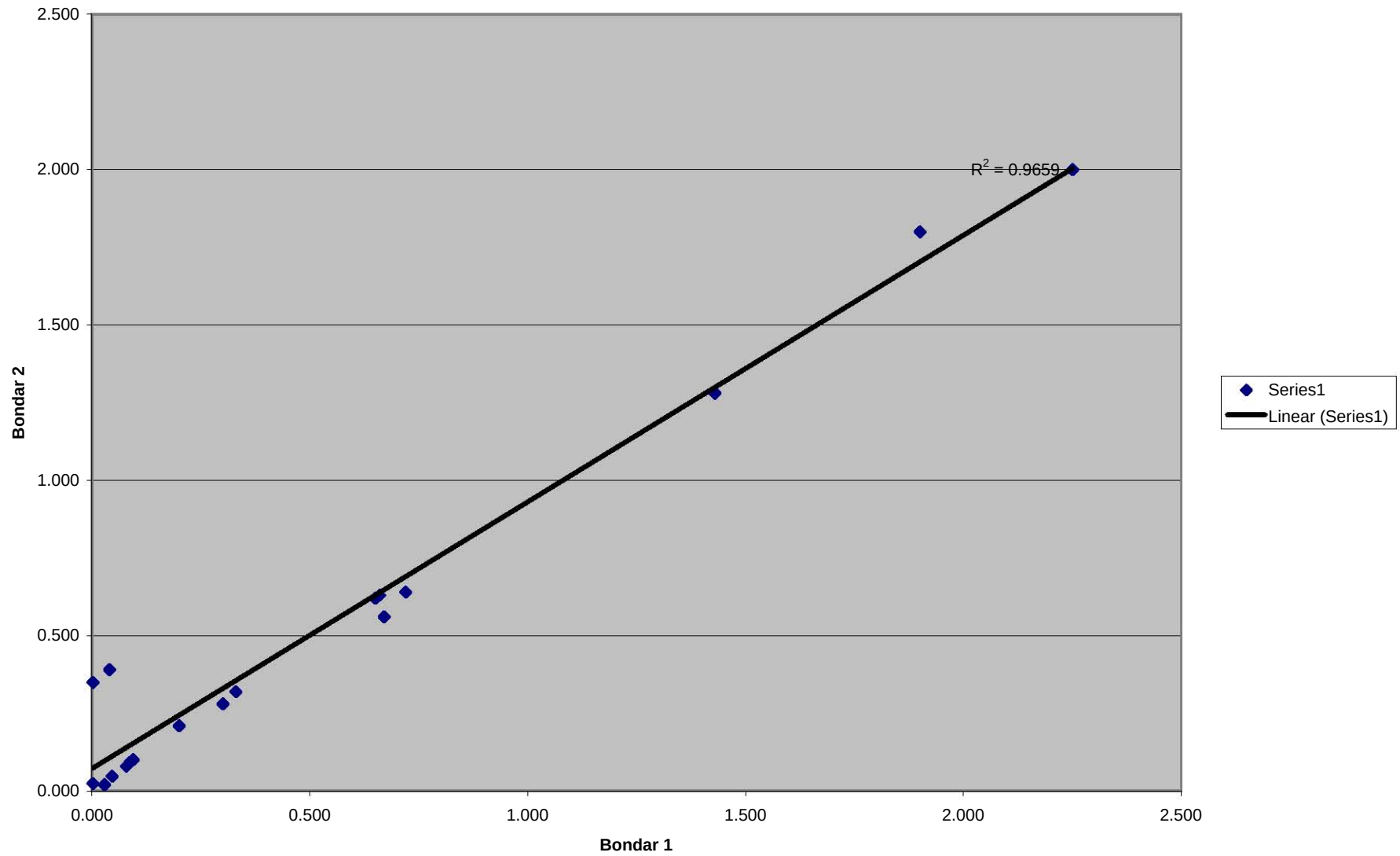
Bondar 3 vs. Chemex 214 (pulps)



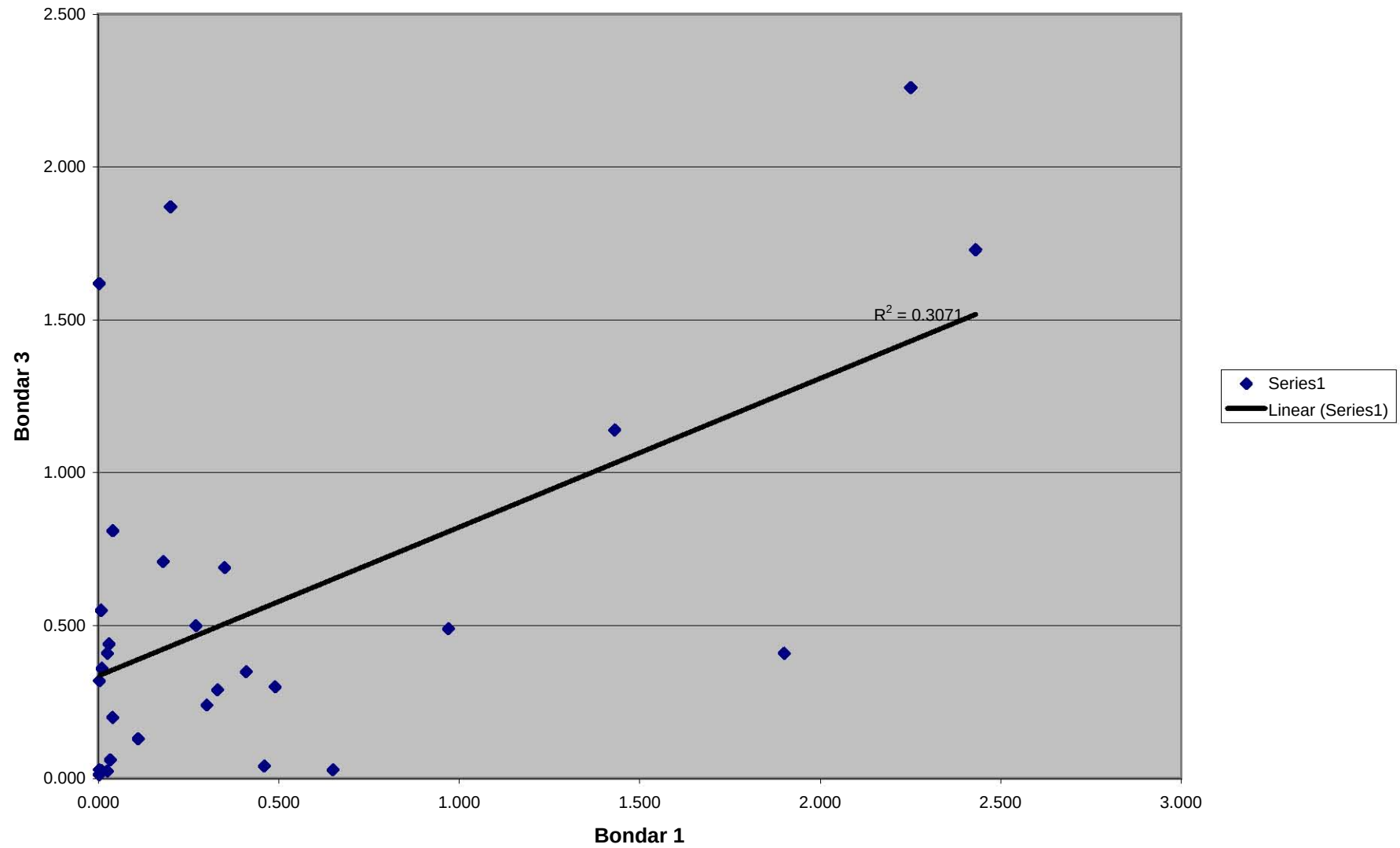
Bondar 1 vs. Chemex 214 (pulp)



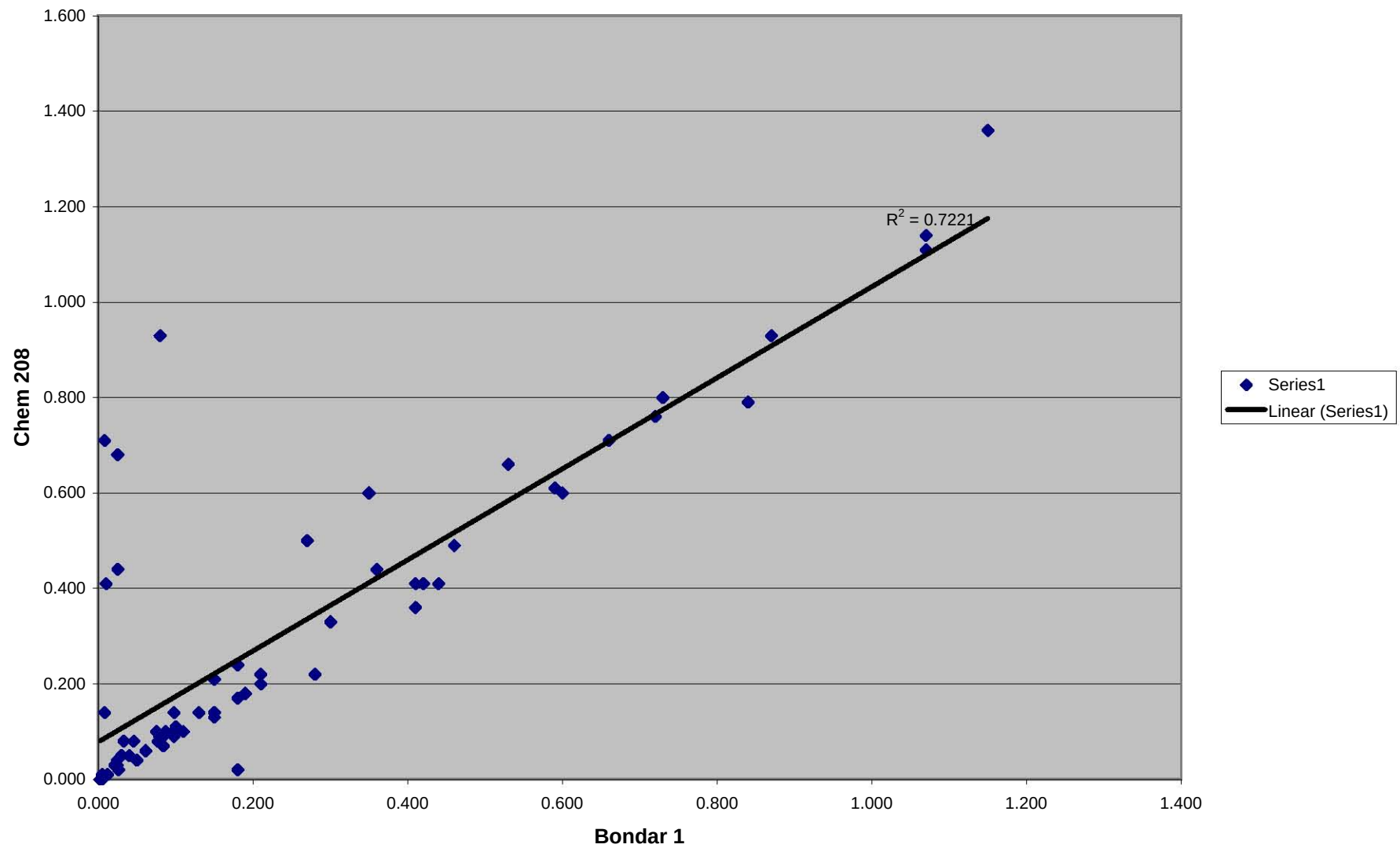
Bondar 1 vs. Bondar 2



Bondar 1 vs. Bondar 3

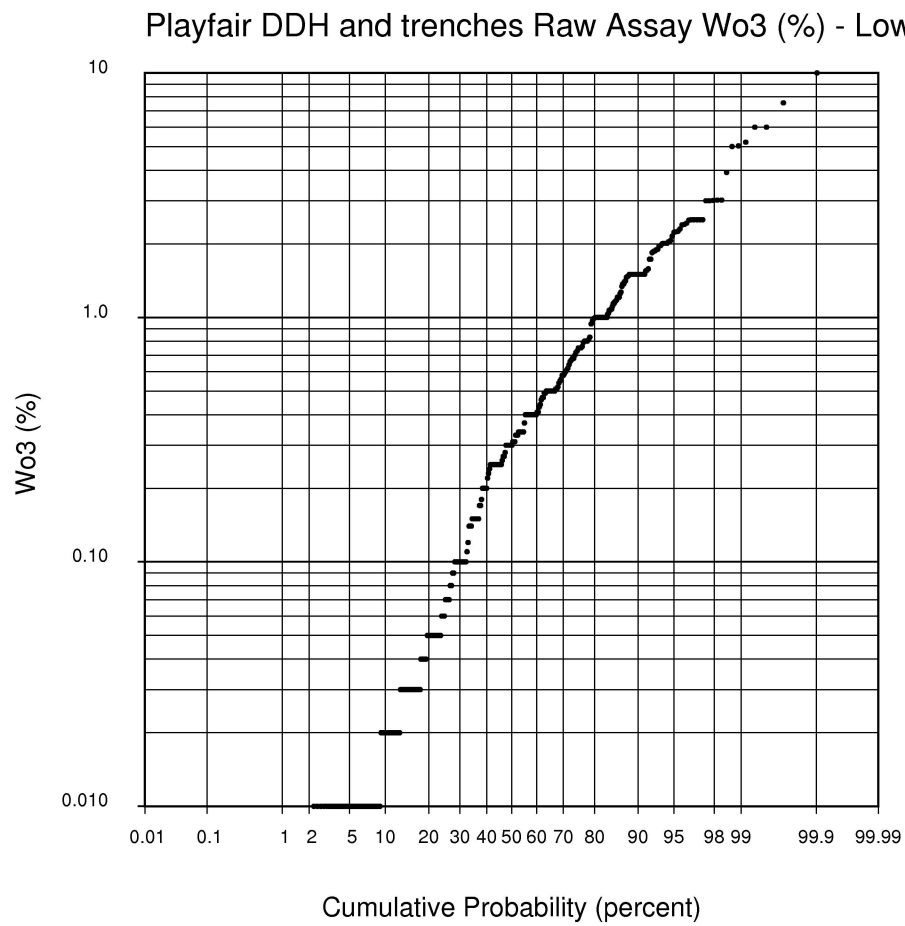
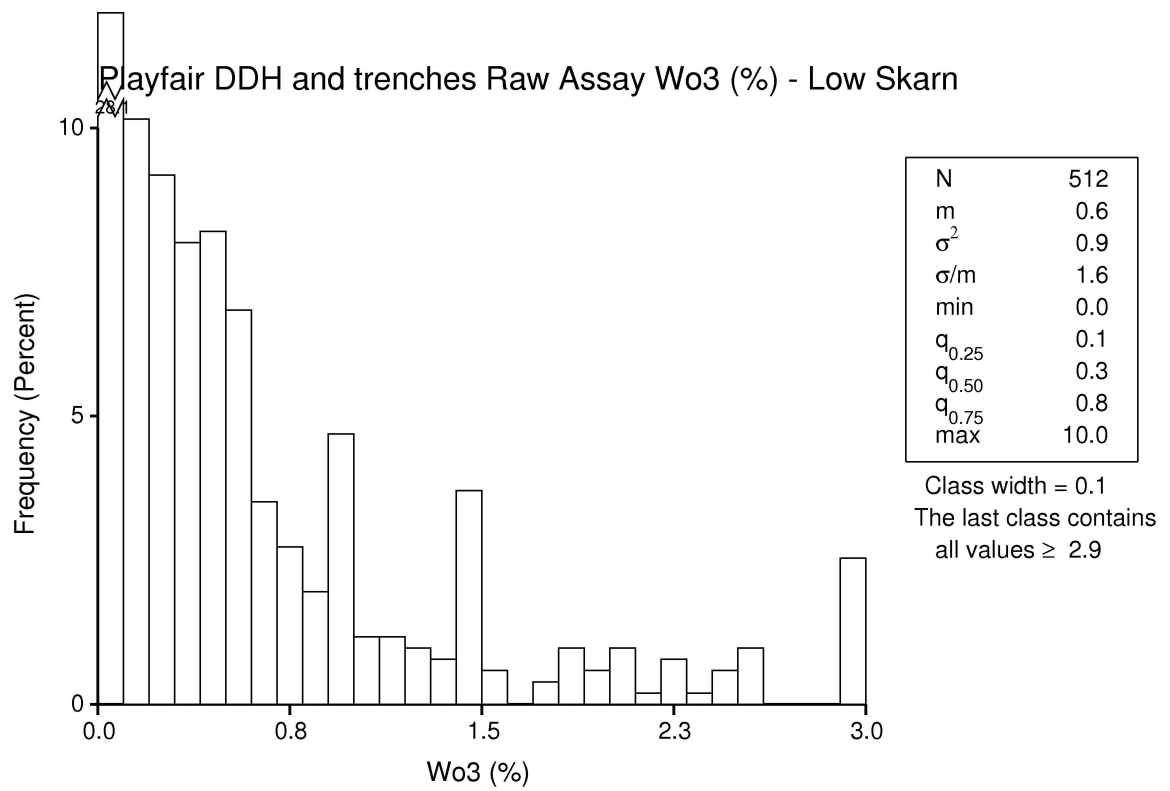


Bondar 1 vs. Chem 208 (rejects)

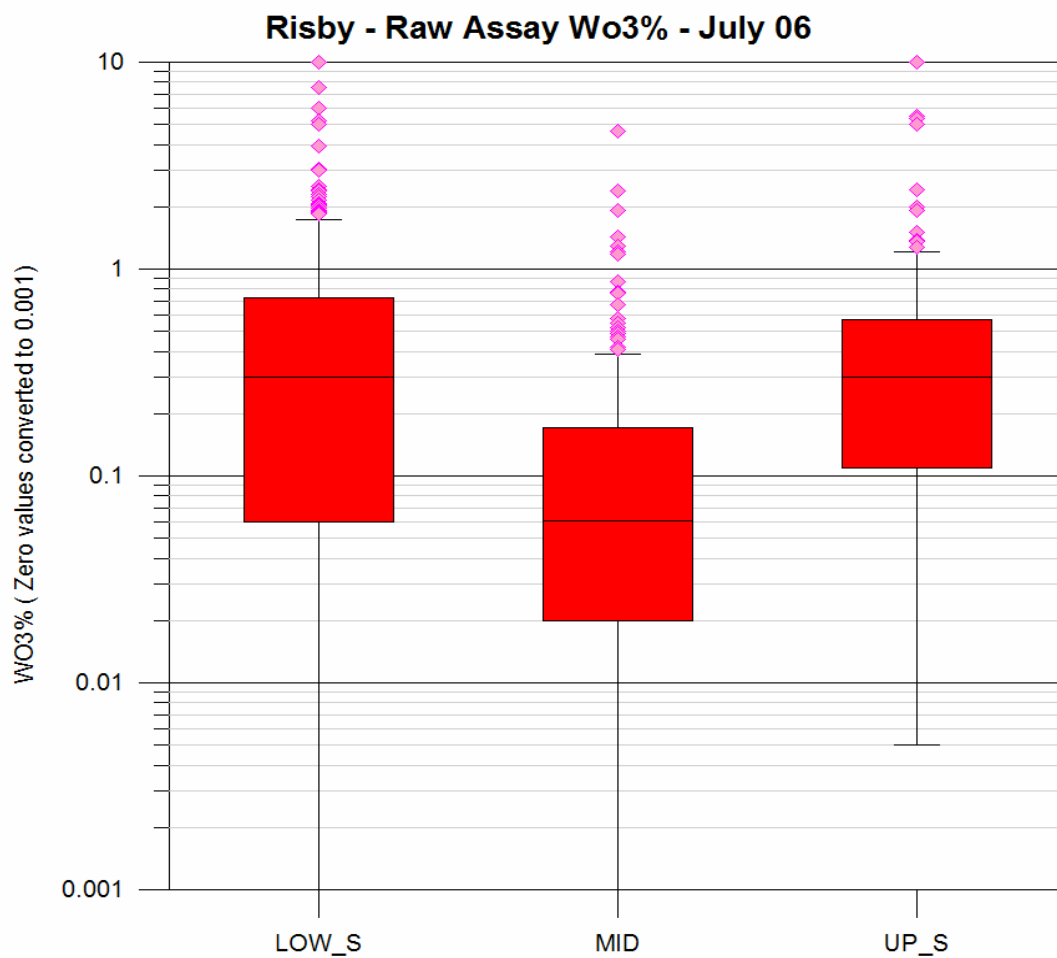


APPENDIX C

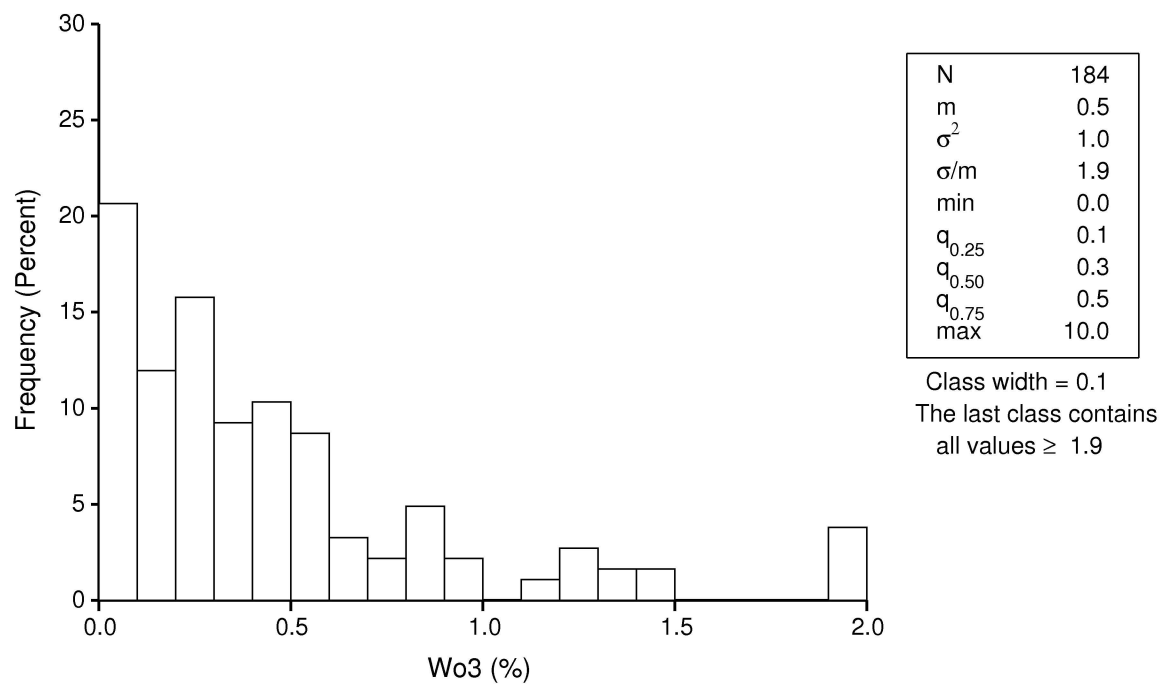
RAW ASSAY STATISTICS



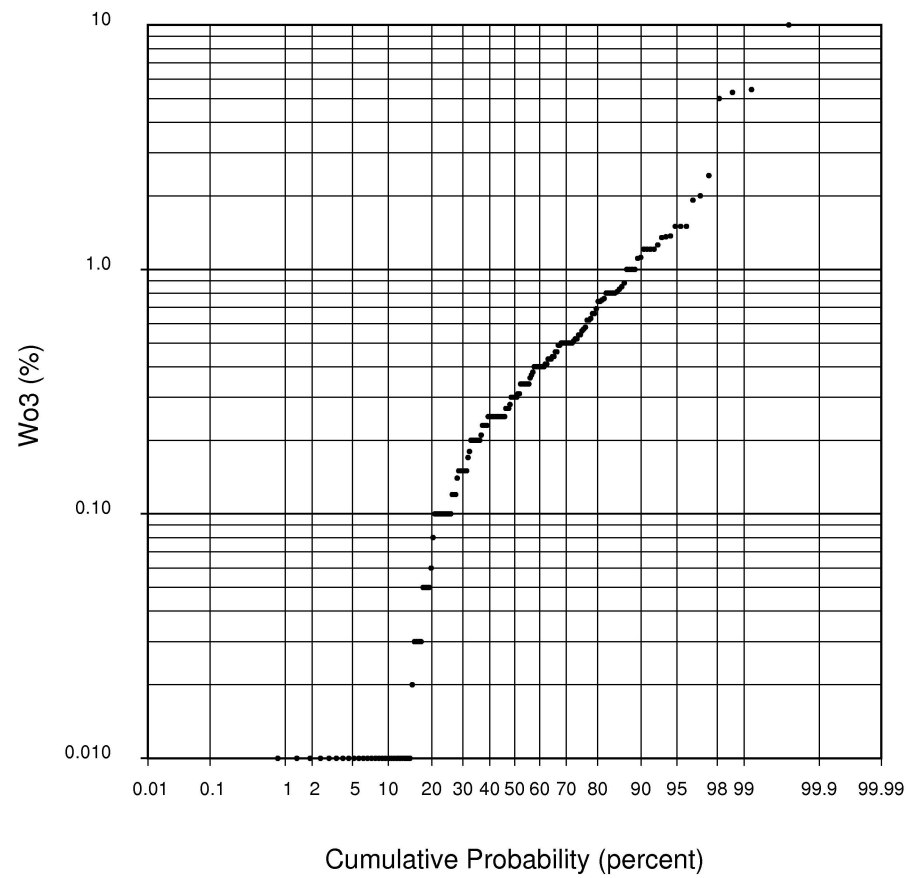
Risby - Raw assay statistic - Inside wireframe DDH and Trenches (July 06 dataset)			
	LOW_S	MID	UP_S
Number of values	521	215	184
Sum	311.97	40.61	100.39
Minimum	0.00	0.00	0.00
Maximum	10.00	4.61	10.00
Range	10.00	4.61	10.00
Mean	0.60	0.19	0.55
Median	0.30	0.06	0.30
First quartile	0.06	0.02	0.11
Third quartile	0.73	0.17	0.56
Standard error	0.04	0.03	0.08
95% confidence interval	0.08	0.06	0.15
99% confidence interval	0.11	0.08	0.20
Variance	0.90	0.18	1.04
Average deviation	0.57	0.20	0.48
Standard deviation	0.95	0.42	1.02
Coefficient of variation	1.59	2.24	1.87
Skew	4.43	6.72	6.07
Kurtosis	29.52	59.81	46.23



Playfair DDH and trenches Raw Assay Wo3 (%) - Upper Skarn



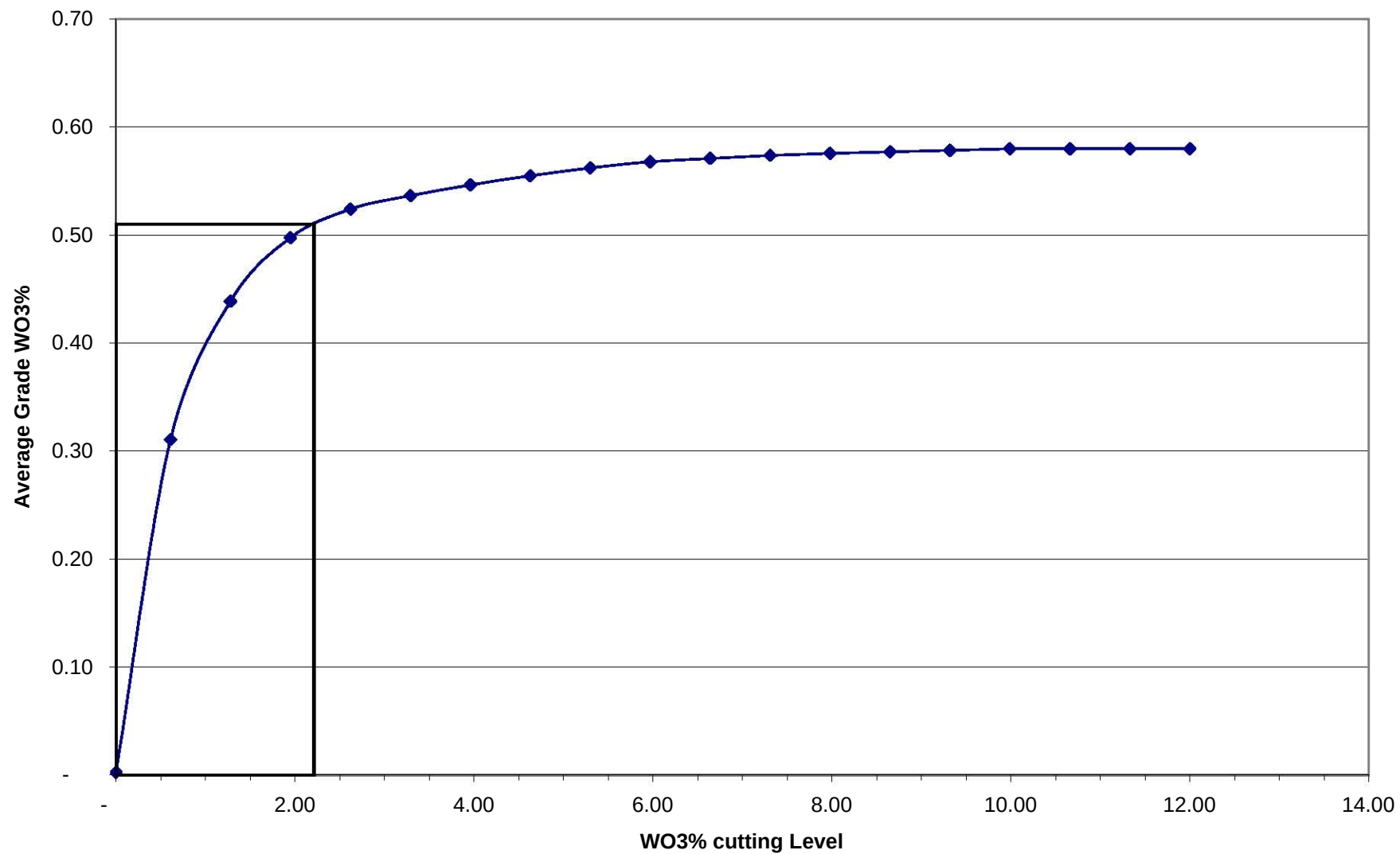
Playfair DDH and trenches Raw Assay Wo3 (%) - Upper Skarn



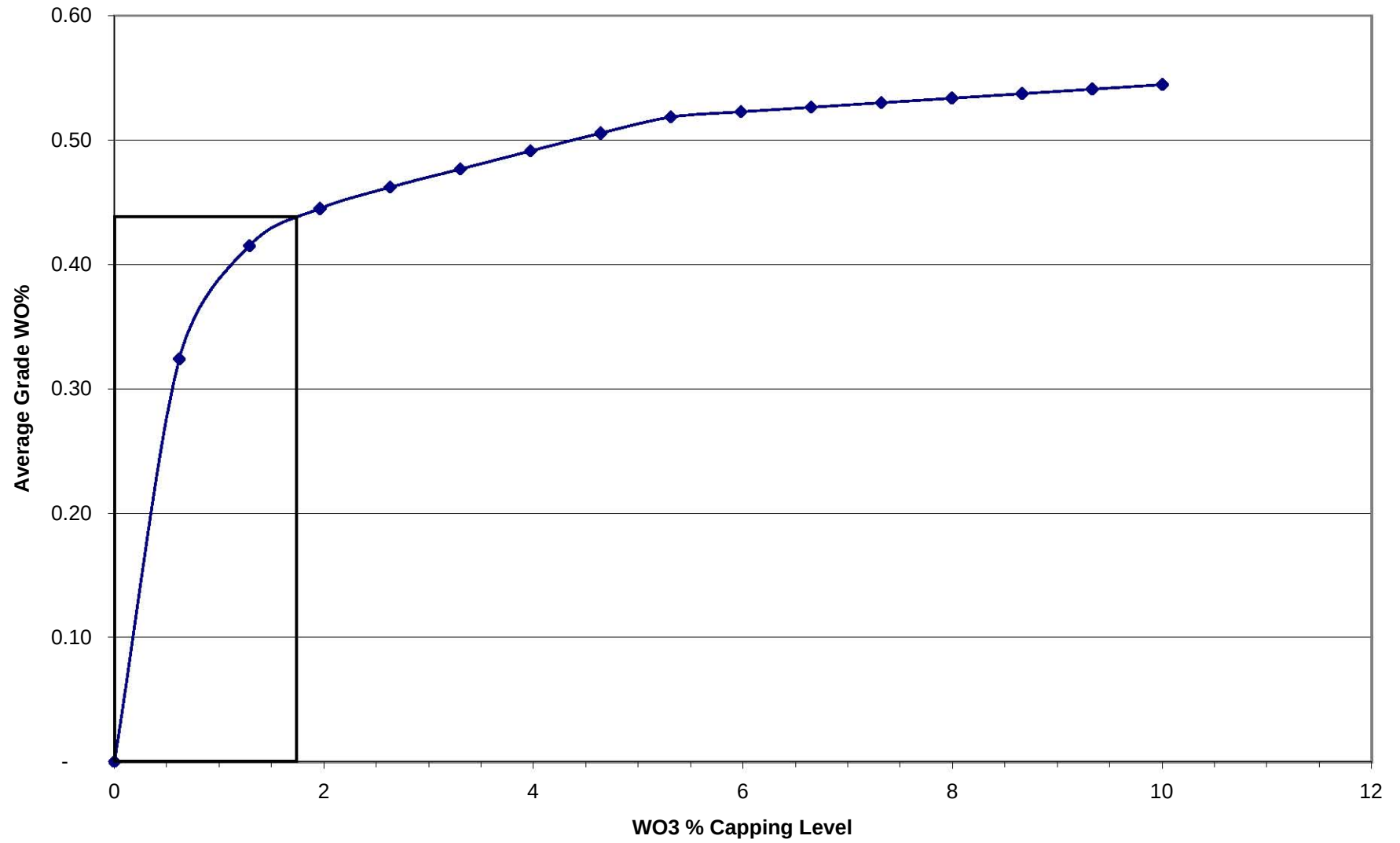
APPENDIX D

CAPPING

WO3% Low Skarn Cutting Levels



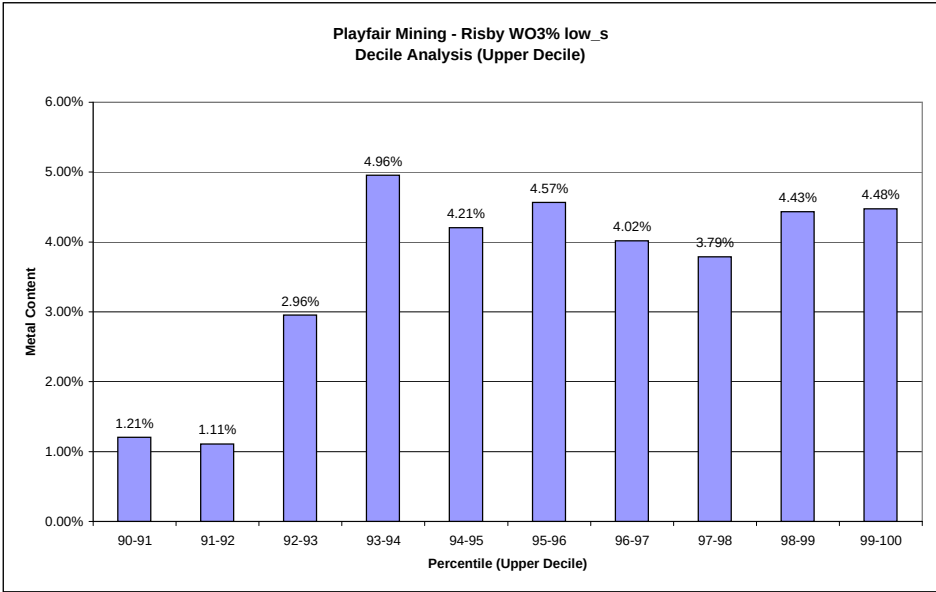
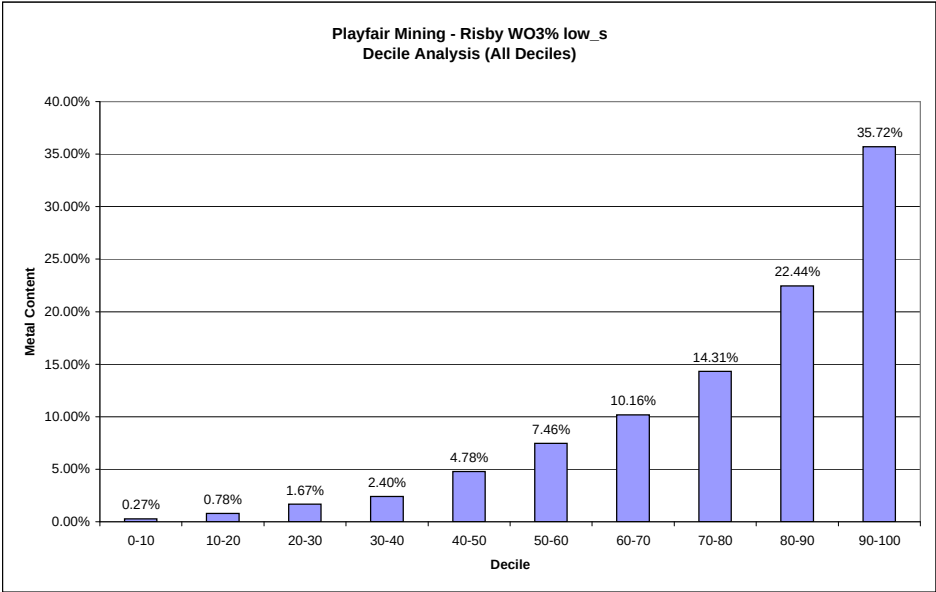
Upper Skarn Capping Level



Playfair Mining - Risby WO3% low_s															
Percentile	Total Of Metal	Min	Average	Max	Count	10	20	30	40	50	60	70	80	90	100
90	88.48	0.00	0.21	2.09	423.00	0.37	1.08	2.30	3.30	6.58	10.27	13.99	19.69	30.89	
91	1.66	0.15	0.33	0.69	5.00										1.66
92	1.53	0.17	0.31	0.51	5.00										1.53
93	4.07	0.33	0.81	1.25	5.00										4.07
94	6.82	0.62	1.71	2.29	4.00										6.82
95	5.79	0.30	1.16	2.67	5.00										5.79
96	6.28	0.83	1.26	2.05	5.00										6.28
97	5.53	0.53	1.38	2.31	4.00										5.53
98	5.22	0.25	1.04	2.32	5.00										5.22
99	6.10	0.30	1.22	2.54	5.00										6.10
100	6.16	0.50	1.23	2.10	5.00										6.16

471.00

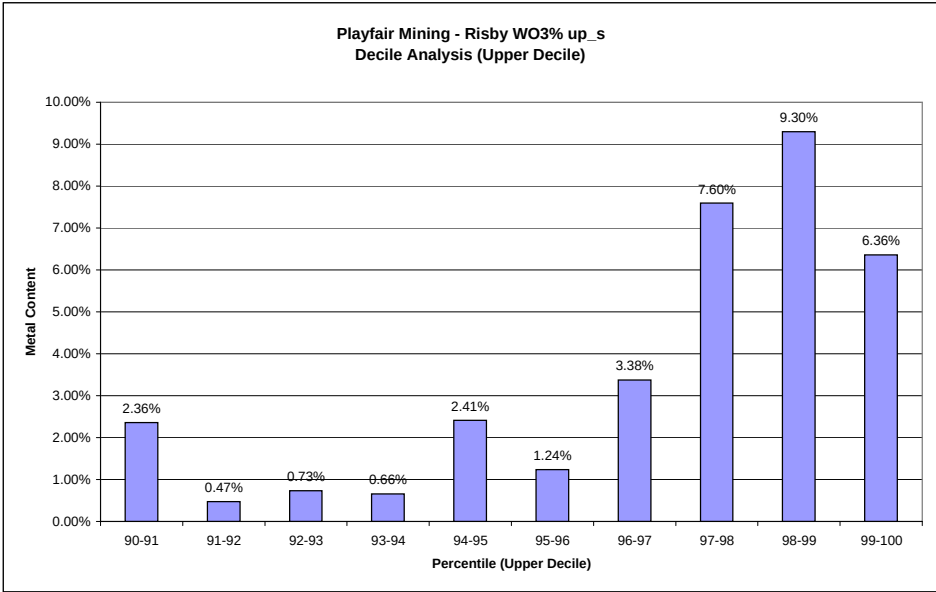
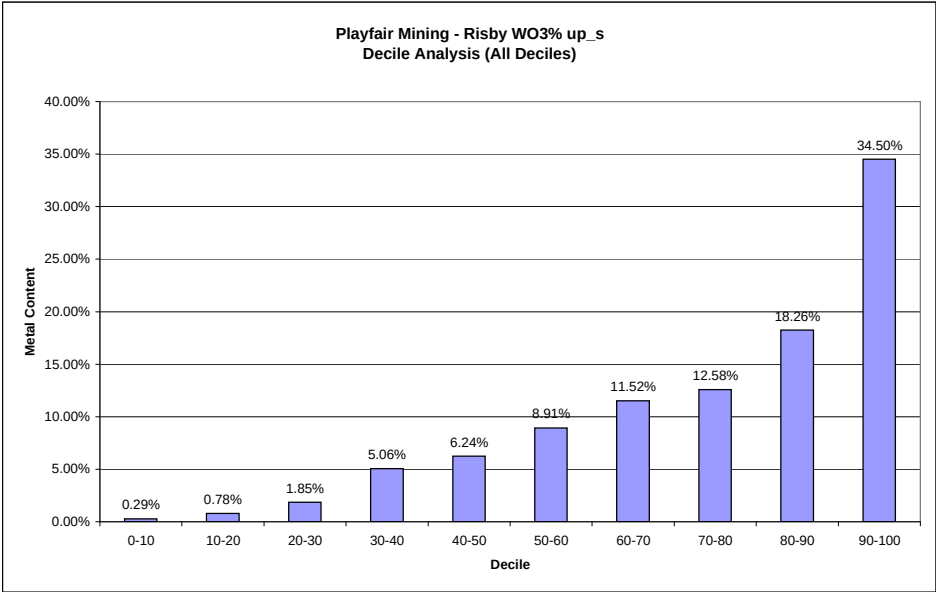
Percentile	Total Of Metal	0-10	10-20	20-30	30-40	40-50	50-60	60-70	70-80	80-90	90-100	
90	88.48	0.372924996	1.08	2.30	3.30	6.58	10.27	13.99	19.69	30.89	0	
90-91	1.66	0	0	0	0	0	0	0	0	0	1.66	1.21%
91-92	1.53	0	0	0	0	0	0	0	0	0	1.53	1.11%
92-93	4.07	0	0	0	0	0	0	0	0	0	4.07	2.96%
93-94	6.82	0	0	0	0	0	0	0	0	0	6.82	4.96%
94-95	5.79	0	0	0	0	0	0	0	0	0	5.79	4.21%
95-96	6.28	0	0	0	0	0	0	0	0	0	6.28	4.57%
96-97	5.53	0	0	0	0	0	0	0	0	0	5.53	4.02%
97-98	5.22	0	0	0	0	0	0	0	0	0	5.22	3.79%
98-99	6.10	0	0	0	0	0	0	0	0	0	6.10	4.43%
99-100	6.16	0	0	0	0	0	0	0	0	0	6.16	4.48%
	137.65	0.372924996	1.08	2.30	3.30	6.58	10.27	13.99	19.69	30.89	49.17	
		0.27%	0.78%	1.67%	2.40%	4.78%	7.46%	10.16%	14.31%	22.44%	35.72%	



Playfair Mining - Risby WO3% up_s															
Percentile	Total Of Metal	Min	Average	Max	Count	10	20	30	40	50	60	70	80	90	100
90	33.52	0.00	0.20	1.19	166.00	0.15	0.40	0.95	2.59	3.20	4.56	5.90	6.44	9.34	
91	1.21	0.30	0.60	0.90	2.00										1.21
92	0.24	0.12	0.12	0.12	2.00										0.24
93	0.38	0.12	0.19	0.25	2.00										0.38
94	0.34	0.34	0.34	0.34	1.00										0.34
95	1.24	0.41	0.62	0.83	2.00										1.24
96	0.63	0.30	0.32	0.33	2.00										0.63
97	1.73	0.38	0.86	1.35	2.00										1.73
98	3.89	0.50	1.94	3.39	2.00										3.89
99	4.76	1.86	2.38	2.90	2.00										4.76
100	3.25	1.25	1.63	2.00	2.00										3.25

185.00

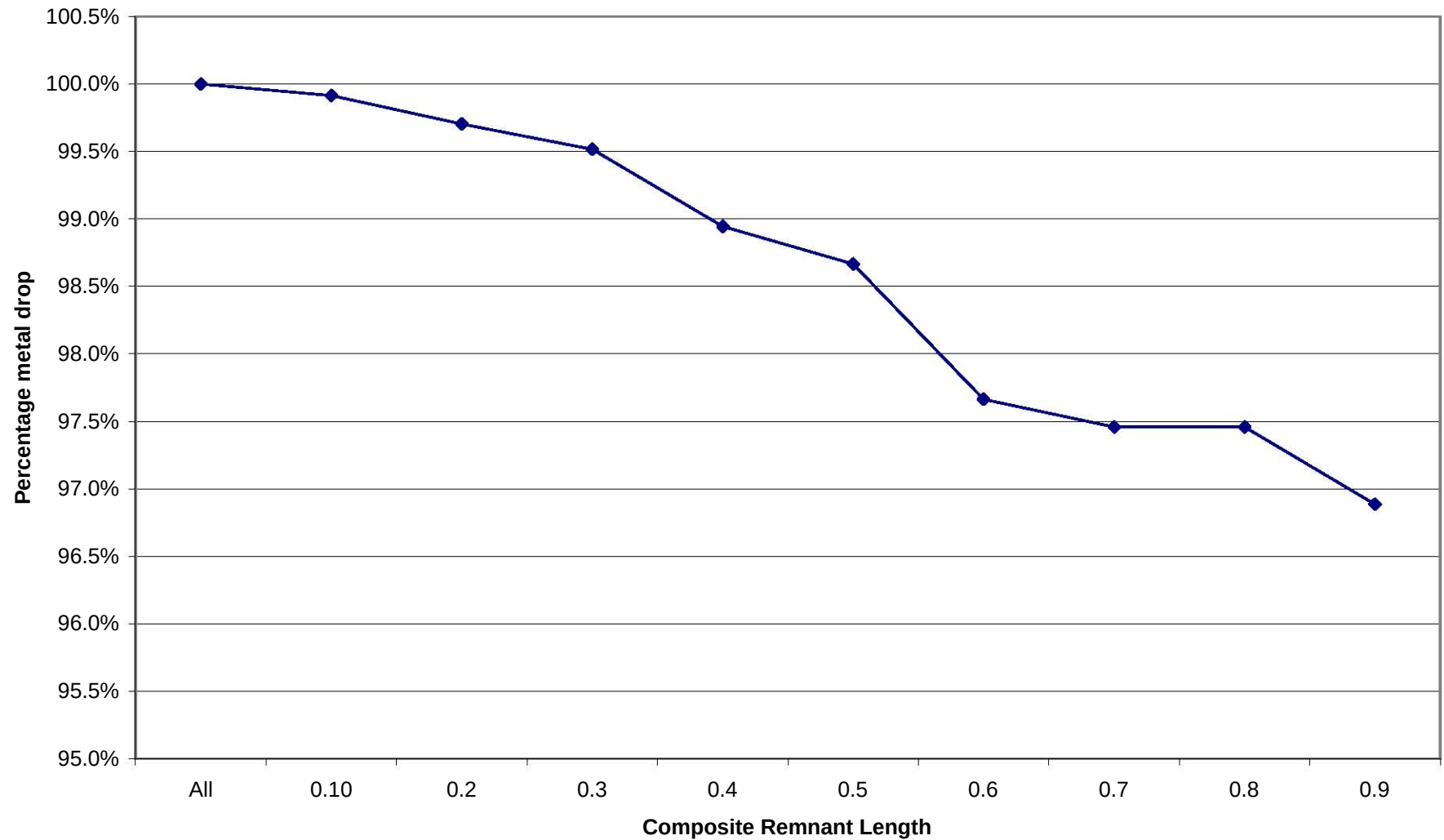
Percentile	Total Of Metal	0-10	10-20	20-30	30-40	40-50	50-60	60-70	70-80	80-90	90-100	
90	33.52	0.146679998	0.40	0.95	2.59	3.20	4.56	5.90	6.44	9.34	0	
90-91	1.21	0	0	0	0	0	0	0	0	0	1.21	2.36%
91-92	0.24	0	0	0	0	0	0	0	0	0	0.24	0.47%
92-93	0.38	0	0	0	0	0	0	0	0	0	0.38	0.73%
93-94	0.34	0	0	0	0	0	0	0	0	0	0.34	0.66%
94-95	1.24	0	0	0	0	0	0	0	0	0	1.24	2.41%
95-96	0.63	0	0	0	0	0	0	0	0	0	0.63	1.24%
96-97	1.73	0	0	0	0	0	0	0	0	0	1.73	3.38%
97-98	3.89	0	0	0	0	0	0	0	0	0	3.89	7.60%
98-99	4.76	0	0	0	0	0	0	0	0	0	4.76	9.30%
99-100	3.25	0	0	0	0	0	0	0	0	0	3.25	6.36%
	51.18	0.146679998	0.40	0.95	2.59	3.20	4.56	5.90	6.44	9.34	17.66	
		0.29%	0.78%	1.85%	5.06%	6.24%	8.91%	11.52%	12.58%	18.26%	34.50%	



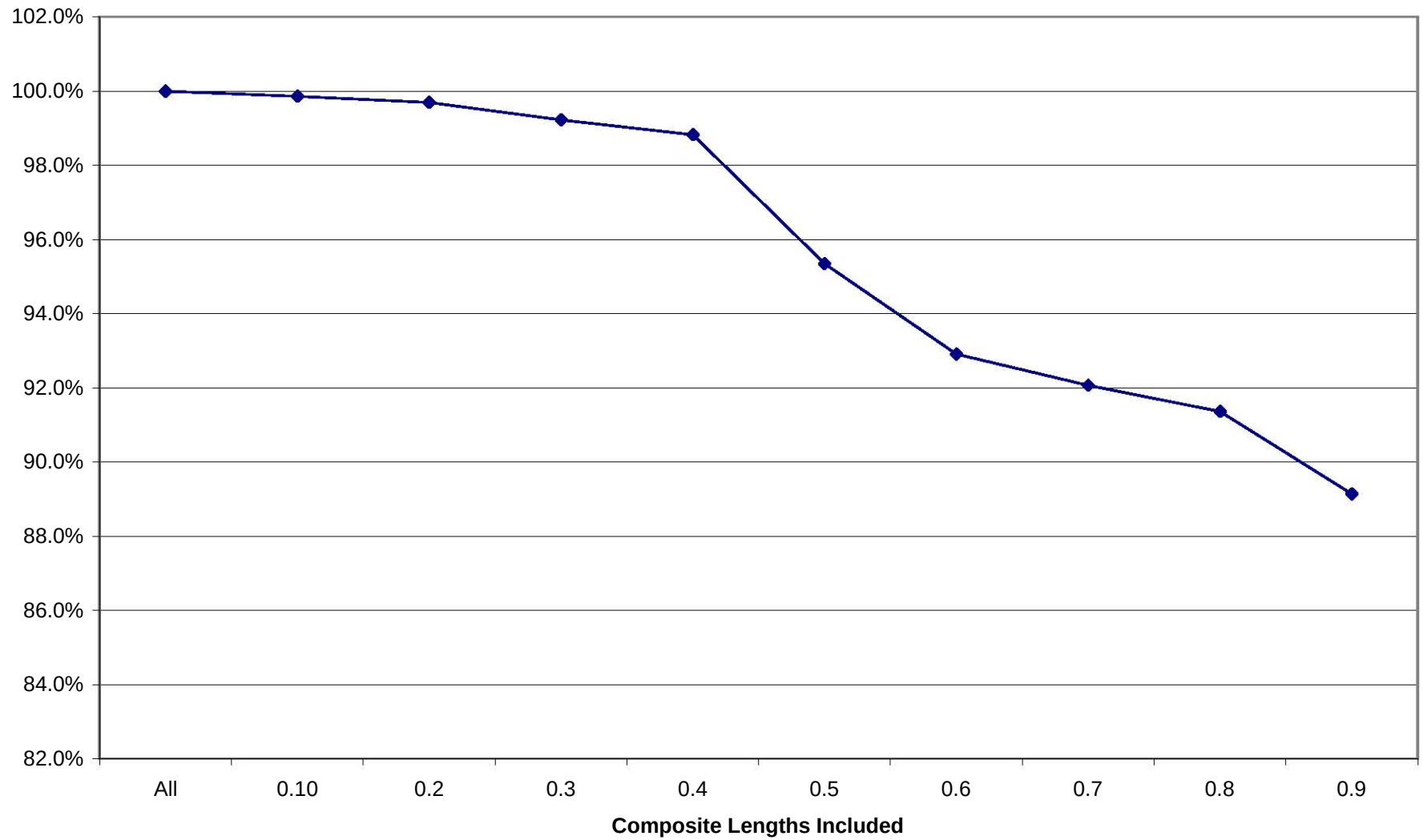
APPENDIX E

COMPOSITE STATISTICS

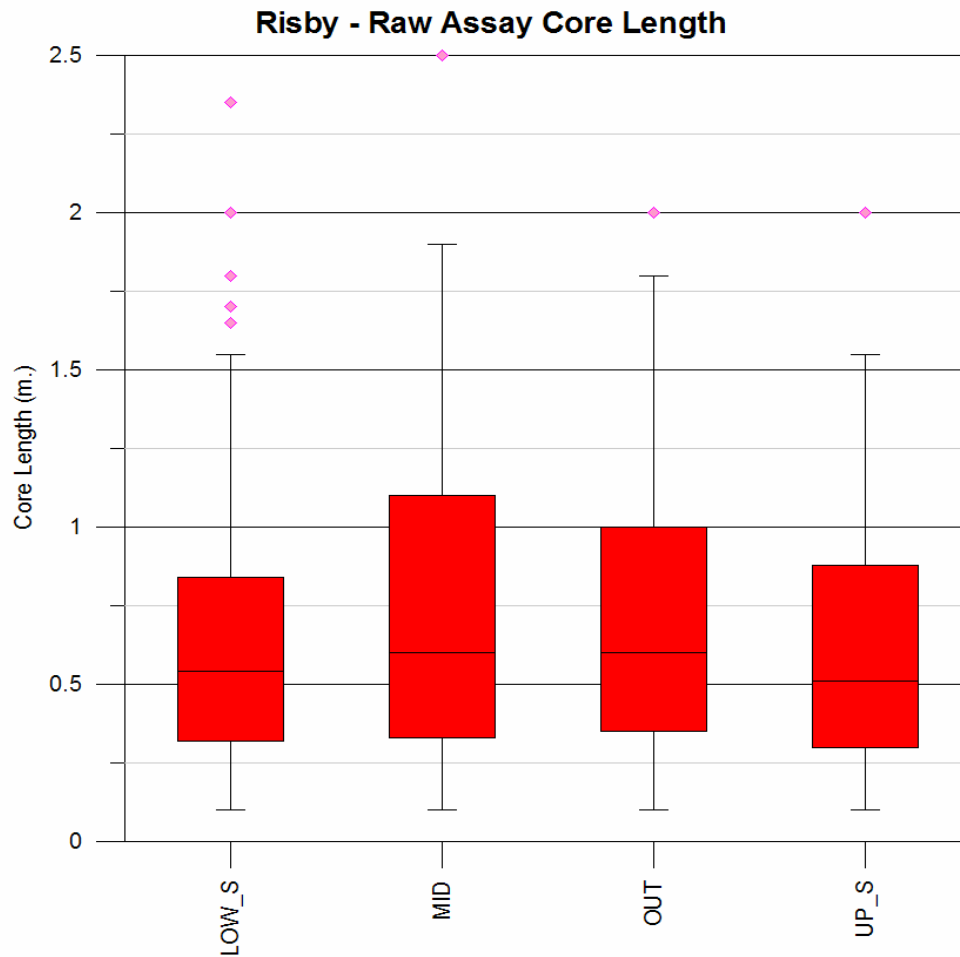
**Percentage of metal in remnant - Low Skarn
1.0 m Composites**



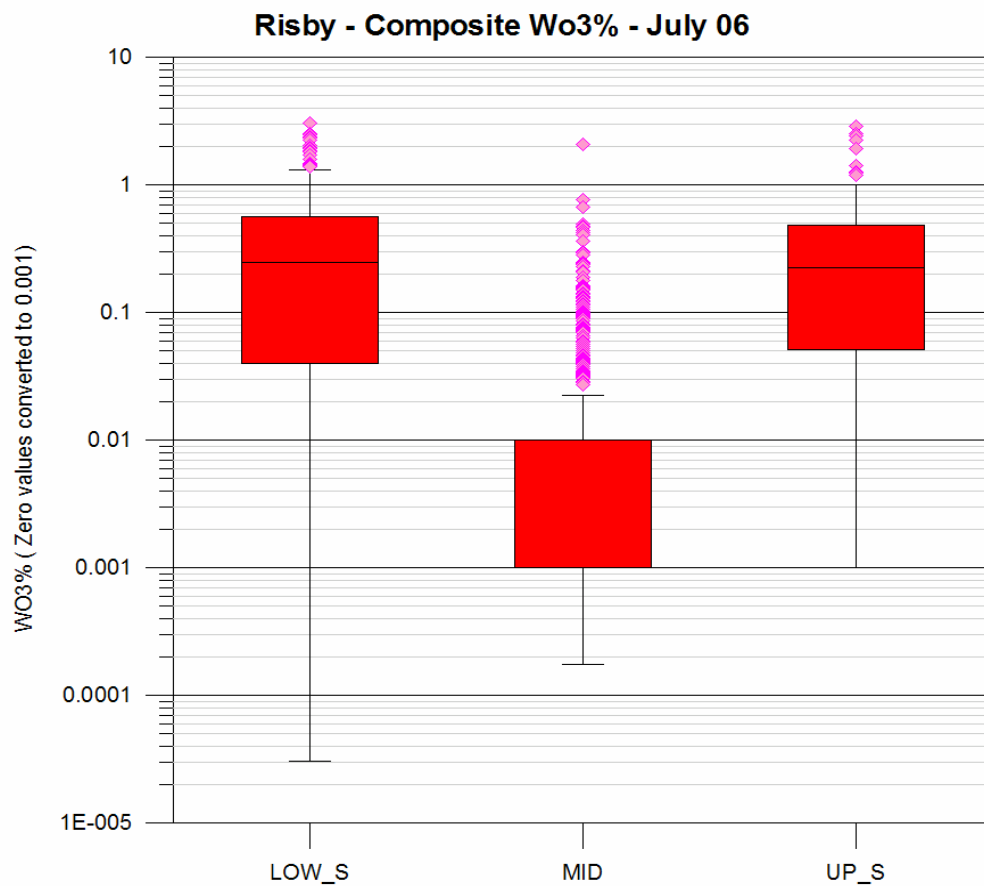
Percentage of metal in remnant - Upper Skarn
1.0 m Composites



Risby Core Length Statistics				
	Lower_Skarn	Middle section	Outside wireframe	Upper_Skarn
Number of values	471	231	264	185
Sum	294.33	166.23	186.75	112.86
Minimum	0.10	0.10	0.10	0.10
Maximum	2.35	2.50	2.00	2.00
Range	2.25	2.40	1.90	1.90
Mean	0.62	0.72	0.71	0.61
Median	0.54	0.60	0.60	0.51
First quartile	0.32	0.33	0.35	0.30
Third quartile	0.84	1.09	1.00	0.87
Standard error	0.02	0.03	0.03	0.03
95% confidence interval	0.04	0.06	0.05	0.06
99% confidence interval	0.05	0.08	0.07	0.07
Variance	0.16	0.23	0.18	0.14
Average deviation	0.31	0.40	0.36	0.31
Standard deviation	0.40	0.48	0.43	0.38
Coefficient of variation	0.63	0.66	0.61	0.62
Skew	1.01	0.77	0.59	0.85
Kurtosis	0.82	(0.14)	(0.57)	0.21

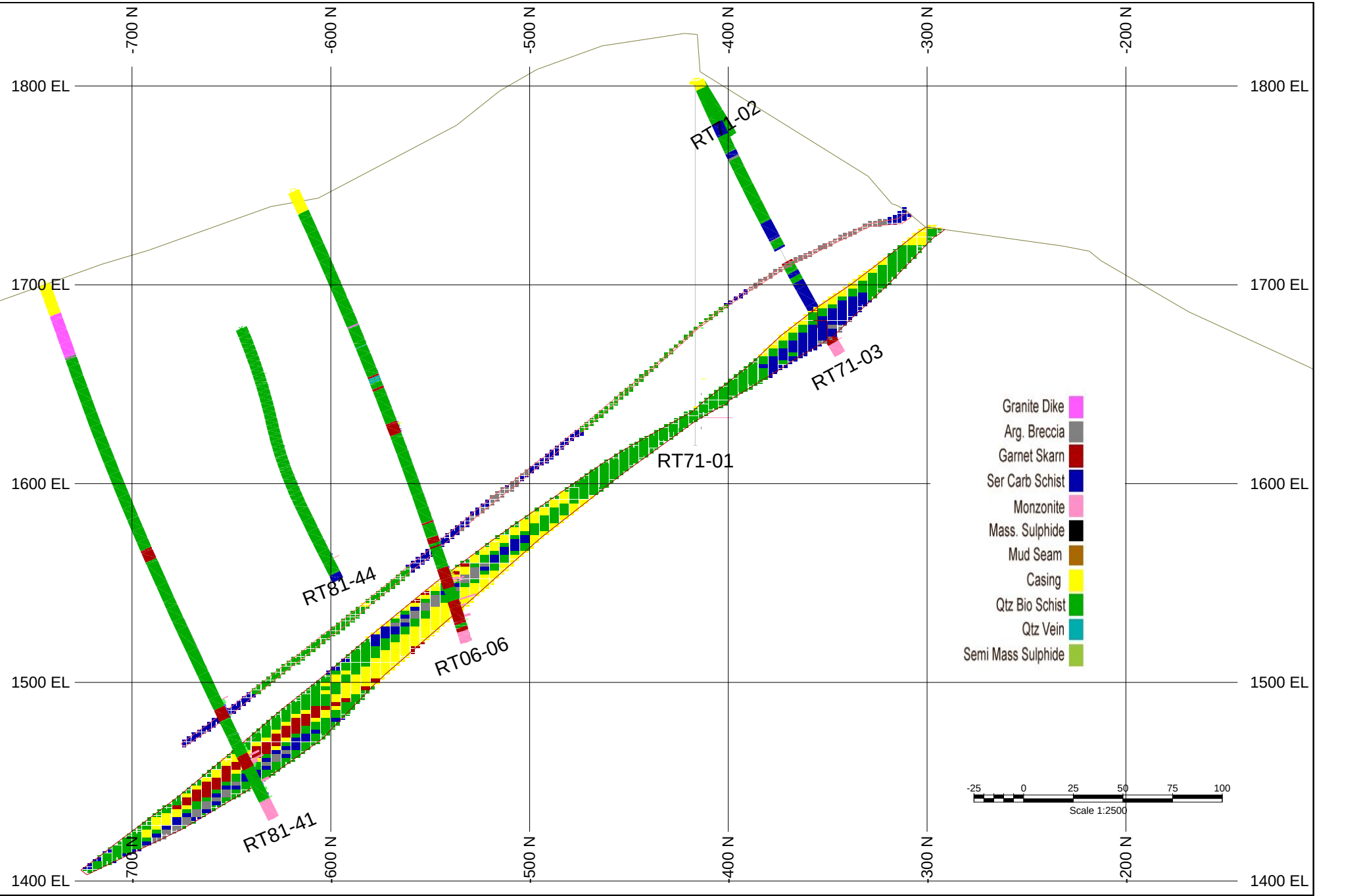


Risby - Composite statistic - Inside wireframe (July 06 dataset)			
	Lower Skarn	Middle section	Upper Skarn
Number of values	428	727	154
Sum	174.02	18.78	54.94
Minimum	0.00	0.00	0.00
Maximum	3.03	2.07	2.88
Range	3.03	2.07	2.88
Mean	0.41	0.03	0.36
Median	0.25	0.00	0.23
First quartile	0.04	0.00	0.05
Third quartile	0.56	0.01	0.48
Standard error	0.02	0.00	0.04
95% confidence interval	0.05	0.01	0.08
99% confidence interval	0.06	0.01	0.10
Variance	0.25	0.01	0.23
Average deviation	0.36	0.04	0.30
Standard deviation	0.50	0.10	0.48
Coefficient of variation	1.23	3.97	1.33
Skew	2.09	12.73	2.95
Kurtosis	5.07	227.83	10.67



APPENDIX F

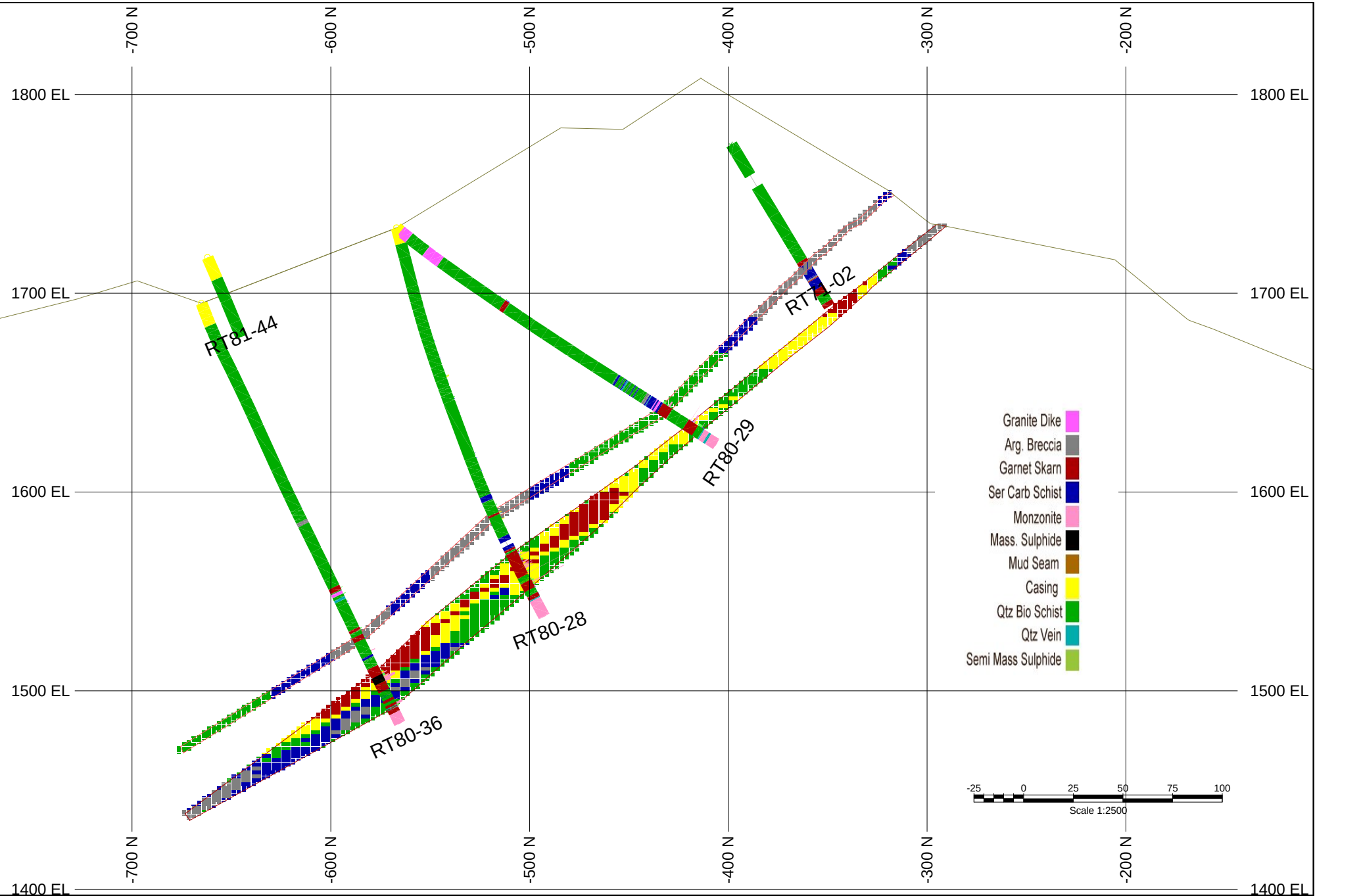
SAMPLE SECTIONS



WO3

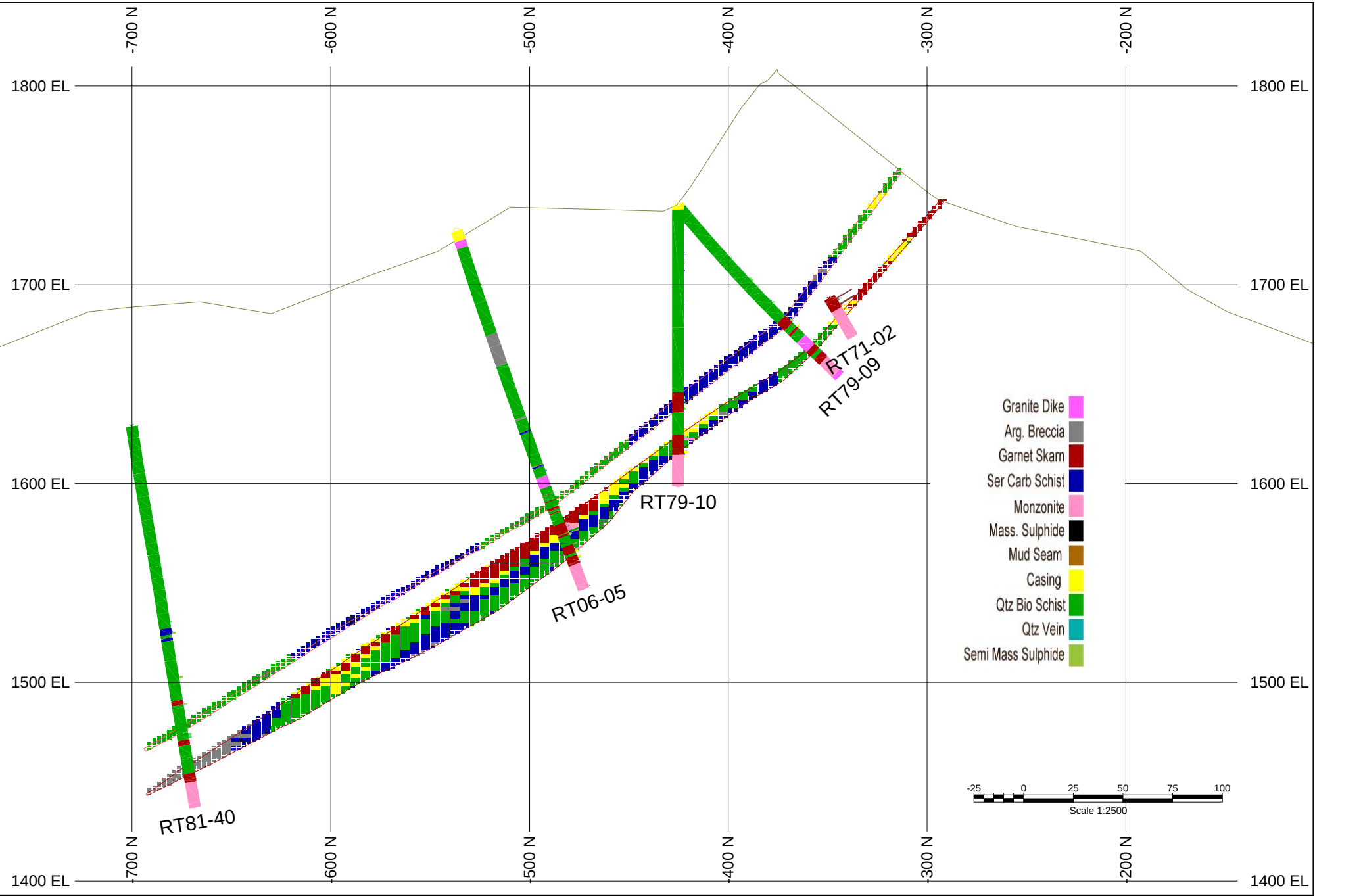
0.00	0.10	Grey
0.10	0.25	Blue
0.25	0.50	Green
0.50	0.75	Yellow
0.75	999.00	Red

Wardrop Engineering Ltd. 330 Bay Street, Suite 604 Toronto, ON M5H 2S8	PlayFair Mining - Risby zone Section 2950W
Units: Meters	



WO3		
0.00	0.10	
0.10	0.25	
0.25	0.50	
0.50	0.75	
0.75	999.00	

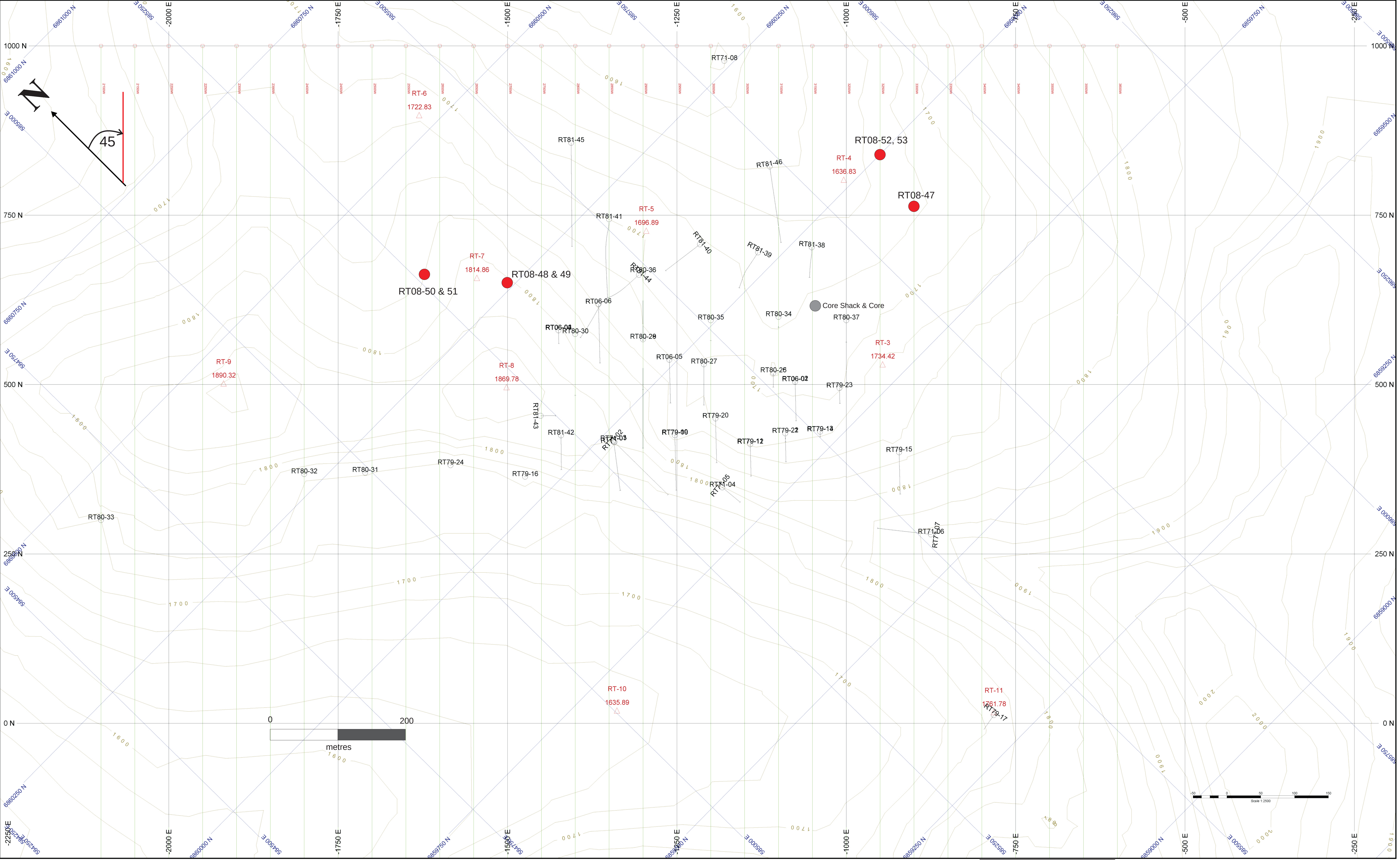
Wardrop Engineering Ltd. 330 Bay Street, Suite 604 Toronto, ON M5H 2S8	PlayFair Mining - Risby zone Section 2900W
Units: Meters	



WO3		
0.00	0.10	
0.10	0.25	
0.25	0.50	
0.50	0.75	
0.75	999.00	

Wardrop Engineering Ltd. 330 Bay Street, Suite 604 Toronto, ON M5H 2S8	PlayFair Mining - Risby zone Section 2950W
Units: Meters	

Appendix B: 2008 Diamond Drill Logs, Location Map, DDH Survey Table



Diamond Drill Core Log RT-08-47				Playfair Mining Ltd.						
Azimuth 225 Dip 90.0 Length (m) 152.1 Dip Test na			Project: RISBY TUNGSTEN YUKON NTS:105 F/14 UTM Zone 8 NAD 83 UTM East: 585,722 mE (585841 E NAD27) UTM North: 6,860,094 mN (6859909 N NAD27) Elev. (m): 1669 Local Grid Co-ord:		Section Line 3300W Start Date 17-Jun-08 Core Size BTW Finish Date 23-Jun-08 Core stored onsite Logged By Mark Nelson Drilled by Superior Drilling, Peachland BC Analyses by Eco Tech, Kamloops BC					
Interval (m)			Sample #'s: 7R125501 - 7R125526							
From	To	Lithology	Description	Sample #	From m	To m	Length m	W %	Cu ppm	WO3 %
0.0	10.7	Overburden	and casing. Casing remains in place							
10.7	14.9	Quartz Monzonite	Intermediate to felsic intrusive; fine grn; pale grey; mod-poor RQD; poor recovery							
14.9	45.0	Limestone	fine grn; med-light grey; cc veinlets oriented ~45 to CA; some fracture planes are rusted; mod RQD and mod recovery							
			22.56-24.08m: healed breccia zone; perhaps healed fault?							
45.0	83.3	QBC	banded-looking rock w/ alternating green/grey and dark grey sub cm bands @ ~45-60 to CA; rare sulph (py); RQD and recovery varies from mod to poor w/ multiple gravel and mud horizons							
			52.73-54.41m: black mud horizon							
83.3	112.5	Limestone	altered limestone; med grey; contact with overlying QBC is difficult to determine and probably gradational; contains sub-cm scale qtz veins and rare sulph (py + po); RQD and recovery is mod							
112.5	123.0	Breccia	clay and gravel breccia; substrate looks limey	7R125501	114.00	115.52	1.5	0.002	15	0.003
				7R125502	115.52	117.04	1.5	0.001	17	0.001
				7R125503	117.04	118.57	1.5	0.001	4	0.001
				7R125504	118.57	120.09	1.5	0.006	20	0.008
				7R125505	120.09	121.62	1.5	0.008	25	0.010
				7R125506	121.62	123.00	1.4	0.001	25	0.001
123.0	126.2	Quartz Monzonite	Intermediate to felsic intrusive; fine grn; pale grey; mod-poor RQD; poor recovery; LC may be obscured in breccia; trace scheelite @ UC	7R125507	123.00	124.50	1.5	0.001	11	0.001
				7R125508	124.50	126.19	1.7	<0.001	13	<0.001
126.2	136.8	QBC	banded w/ qtz veining and trace sulph (py + po) and trace scheelite; RQD ~ 0 at top of unit	7R125509	126.19	127.70	1.5	<0.001	9	<0.001
				7R125510	127.70	129.20	1.5	0.001	22	0.001
				7R125511	129.20	130.70	1.5	<0.001	29	<0.001
				7R125512	130.70	132.20	1.5	<0.001	98	<0.001
				7R125513	132.20	133.70	1.5	<0.001	33	<0.001
				7R125514	133.70	135.20	1.5	<0.001	31	<0.001
				7R125515	135.20	135.48	0.3	<0.001	32	<0.001
				7R125516	std @ 1.04%W & 4580 ppm Cu			1.051	4576	1.325
				7R125517	135.48	137.00	1.5	0.002	31	0.003
136.8	152.1	Quartz Monzonite	intermediate to felsic intrusive; fine-med grn; med grey; contains diss sulph (py + po); no bt visible; traces of scheelite throughout length (< 10%?)	7R125518	137.00	138.50	1.5	0.001	14	0.001
				7R125519	138.50	140.00	1.5	0.001	19	0.001
				7R125520	140.00	141.50	1.5	0.001	21	0.001
				7R125521	141.50	143.00	1.5	0.001	22	0.001
				7R125522	143.00	144.48	1.5	0.001	16	0.001

Diamond Drill Core Log RT-08-47					Playfair Mining Ltd.							
Azimuth 225 Dip 90.0 Length (m) 152.1 Dip Test na			Project: RISBY TUNGSTEN YUKON NTS:105 F/14 UTM Zone 8 NAD 83 UTM East: 585,722 mE (585841 E NAD27) UTM North: 6,860,094 mN (6859909 N NAD27) Elev. (m): 1669 Local Grid Co-ord: Sample #'s: 7R125501 - 7R125526			Section Line 3300W Start Date 17-Jun-08						

Diamond Drill Core Log RT-08-48				Playfair Mining Ltd.						
Azimuth 225 Dip -90.0 Length (m) 311.35 Dip Test 229.5/-88.5 @ 92.35m 210.9/-86.7 @ 183.18m 218.6/-84.8 @ 274.62m			Project: RISBY TUNGSTEN YUKON NTS:105 F/14 UTM Zone 8 NAD 83 UTM East: 585221 (585340 NAD27) UTM North: 6860444 (6860260 NAD27) Elev. (m) 1808m Local Grid Co-ord: same site as 49 Sample #'s: 125527 to 125550; 127151, 2		Section Line 2700W Start Date 29-Jun-08 Core Size BTW Finish Date ? Core stored onsite Logged By Mark Nelson and KC Smith Drilled by Superior Drilling, Peachland BC Analyses by Eco Tech, Kamloops BC					
From	To	Lithology	Description	Sample #	From m	To m	Length m	W ppm	Cu ppm	WO3 %
0.00	6.10	Overburden	and casing. Casing remains in place; QBC							
6.10	12.88	QBC	light and dark cm-wide bands; extremely rubbly at top with low RQD and recovery; occasional clay (orange) seam; LC with liemstone is wavy but distinct							
12.88	14.51	Limestone	pale grey/white; fine grained; good RQD and recovery							
14.51	20.51	QBC	as previous with cm-scale quartz veins that follow foliation @ ~60 to CA 18.95-19.03m: Quartz vein							
20.51	32.46	Quartz Monzonite	intrusive; pale grey; fine-med grn; some fracture surfaces have FeOx staining; LC is rubble zone							
32.46	39.25	QBC	banding foliation consistant @ ~60 to CA 33.68m: individual Xstal of scheelite							
39.25	39.96		intrusive; dark grey; feldspar porphyritic; mafic matrix; LC is rubble zone							
39.96	45.39	QBC								
45.39	60.05	Breccia	orange rubble zone; substrate is probably the intrusive							
60.05	62.03	QBC	Qtz-Bt-Chl Schist; usual banded; poor RQD and recovery; calcite veins @ ~15 to CA 60.93-61.02m: Qtz vein 61.94-62.03m: Qtz vein							
62.03	77.22	Quartz Monzonite	fine grn intrusive; pale grey; dark flecks (biotite) and perhaps some minor sulphide (py?); UC obscured by qtz vein; LC lost in rubble zone							
77.22	86.56	Breccia	breccia, probably part of the contact between the intrusive and the QBC; subunits are mixed in the unhealed breccia 83.44-83.62m: quartz rubble							
86.56	94.92	QBC	Qtz-Bt-Chl Schist; mod RQD 92.35-93.33m: mud seam; black							
94.92	99.59	Quartz Monzonite	altered-looking, bleached; brecciated, but healed							
99.59	101.14	Mud Seam	transition zone, black mud, perhaps altered QBC							
101.14	306.93	QBC	Qtz-Bt-Chl Schist; trace sulphides (po +py) along foliations; qtz bands seem slightly thicker varying up to 1.5 cm with larger veins; some of the quartz bands appear boudinaged; the recovery is good and RQD varies from mod-good 120.13m: solitary scheelite xstal 122.04-122.22m: qtz vein 127.79-128.37m: qtz vein 136.95-137.54m: qtz vein 156.36-156.98m: qtz vein 160.77-160.91m: qtz vein 170.29-170.44m: qtz vein 178.59-178.69m: qtz vein 178.90-179.02m: qtz vein with solitary scheelite							

Diamond Drill Core Log RT-08-48				Playfair Mining Ltd.						
Azimuth 225 Dip -90.0 Length (m) 311.35 Dip Test 229.5/-88.5 @ 92.35m 210.9/-86.7 @ 183.18m 218.6/-84.8 @ 274.62m			Project: RISBY TUNGSTEN YUKON NTS:105 F/14 UTM Zone 8 NAD 83 UTM East: 585221 (585340 NAD27) UTM North: 6860444 (6860260 NAD27) Elev. (m) 1808m Local Grid Co-ord: same site as 49 Sample #'s: 125527 to 125550; 127151, 2		Section Line 2700W Start Date 29-Jun-08 Core Size BTW Finish Date ? Core stored onsite Logged By Mark Nelson and KC Smith Drilled by Superior Drilling, Peachland BC Analyses by Eco Tech, Kamloops BC					
From	To	Lithology	Description	Sample #	From m	To m	Length m	W ppm	Cu ppm	WO3 %
			181.21m: solitary scheelite xstal							
			184.62m: solitary scheelite xstal							
			189.51m: solitary scheelite xstal							
			193.77m: solitary scheelite xstal							
			194.15m: solitary scheelite xstal							
			194.27m: solitary scheelite xstal							
			201.90-202.01m: qtz vein							
			204.50m: mislatch with rubble zone							
			205.28-205.49m: qtz vein with sparse diss scheelite							
			212.73-212.83m: sparse diss scheelite							
			213.50-214.12m: dark black mud zone							
			214.21-214.38m: sparse diss scheelite							
			214.81m: solitary scheelite xstal							
			218.18m: solitary scheelite xstal							
			123.44m: foliation @ ~50 to CA							
			134.11m: foliation @ ~55 to CA							
			141.43m: foliation @ ~50 to CA							
			149.15m: foliation @ ~50 to CA							
			160.32m: foliation @ ~50 to CA							
			170.50m: foliation @ ~50 to CA							
			180.14m: foliation @ ~55 to CA							
			189.60m: foliation @ ~55 to CA							
			201.47m: foliation @ ~55 to CA							
			211.38m: foliation @ ~50 to CA							
			221.19-221.34m: qtz vein							
			220.07m: foliation @ ~50 to CA							
			223.54-223.98m: qtz vein							
			223.98-224.01m: trace scheelite							
			230.29m: foliation @ ~55 to CA							
			230.72-231.58m: qtz vein							
			231.78-231.97m: qtz vein							
			233.00-233.07m: trace scheelite							
			233.21-233.41m: qtz vein							
			233.62-233.74m: qtz vein							
			235.07-235.22m: qtz vein							
			235.76-236.22m: qtz vein							
			236.68-237.39m: qtz vein							
			237.84-238.01m: qtz vein							
			240.44m: foliation @ ~50 to CA	7R125527	243.81	245.34	1.5	0.0	39	0.013
			244.40-245.00m: long rusted fracture	7R125528	245.34	246.84	1.5	0.0	63	0.030
			246.96-247.10m: trace scheelite	7R125529	246.84	247.23	0.4	0.0	69	0.039
			248.41-248.62m: trace scheelite	7R125530	247.23	248.33	1.1	0.0	48	0.003

Diamond Drill Core Log RT-08-48				Playfair Mining Ltd.						
Azimuth 225 Dip -90.0 Length (m) 311.35 Dip Test 229.5/-88.5 @ 92.35m 210.9/-86.7 @ 183.18m 218.6/-84.8 @ 274.62m		Project: RISBY TUNGSTEN YUKON NTS:105 F/14 UTM Zone 8 NAD 83 UTM East: 585221 (585340 NAD27) UTM North: 6860444 (6860260 NAD27) Elev. (m) 1808m Local Grid Co-ord: same site as 49 Sample #'s: 125527 to 125550; 127151, 2		Section Line 2700W Start Date 29-Jun-08 Core Size BTW Finish Date ? Core stored onsite Logged By Mark Nelson and KC Smith Drilled by Superior Drilling, Peachland BC Analyses by Eco Tech, Kamloops BC						
From	To	Lithology	Description	Sample #	From m	To m	Length m	W ppm	Cu ppm	WO3 %
			250.24m: foliation @ ~55 to CA 259.93m: foliation @ ~55 to CA 260.36m: foliation @ ~50 to CA 260.50-260.60m: dark black mud 269.93m: foliation @ ~55 to CA 271.88-272.05m: trace scheelite 272.05-272.17m: qtz vein 272.43-272.65m: trace scheelite 273.72-273.89m: trace scheelite 276.60-276.70m: trace scheelite 277.12-277.50m: qtz vein 277.74-277.95m: trace scheelite 279.85m: foliation @ ~50 to CA 282.50-282.60m: trace scheelite 282.90-283.01m: trace scheelite 283.77-283.98m: trace scheelite 284.35-284.50m: trace scheelite 287.03-287.15m: qtz vein 289.27m: foliation @ ~50 to CA 297.45-297.62m: qtz vein 298.55-298.93m: qtz vein 298.97-300.02m: trace scheelite 300.02m: weaker foliation in chlorite rich area @ ~45 to CA	7R125531	248.33	248.72	0.4	0.0	60	0.044
				7R125532	248.72	249.78	1.1	0.0	38	0.015
				7R125533	249.78	251.28	1.5	0.0	29	0.003
				7R125534	std @ 1.04%W & 4580 ppm Cu			1.0	4651	1.313
				7R125535	255.75	257.25	1.5	0.0	34	0.010
				7R125536	257.25	258.16	0.9	0.0	28	0.015
				7R125537	258.16	259.64	1.5	<0.001	35	nil
				7R125538	269.93	270.93	1.0	0.0	111	0.032
				7R125539	270.93	272.43	1.5	0.0	185	0.053
				7R125540	272.43	273.93	1.5	0.0	78	0.062
				7R125541	273.93	275.35	1.4	0.0	94	0.020
				7R125542	275.35	276.85	1.5	0.0	31	0.030
				7R125543	276.85	278.36	1.5	0.0	35	0.055
				7R125544	278.36	279.85	1.5	0.0	21	0.028
				7R125545	279.85	281.35	1.5	<0.001	29	nil
				7R125546	281.35	282.83	1.5	0.0	46	0.016
				7R125547	282.83	284.35	1.5	0.0	44	0.048
				7R125548	284.35	285.83	1.5	0.0	136	0.026
				7R125549	285.83	287.33	1.5	<0.001	32	nil
				7R125550	std @ 1.04%W & 4580 ppm Cu			1.0	4677	1.311
				7R127151	297.41	298.91	1.5	0.0	131	0.004
				7R127152	298.91	300.41	1.5	0.1	56	0.072
306.93	311.35	Mud Seam	light orange mud seam that varies through a more competent section (breccia) and then into a darker grey mud seam with remnant QBC blocks							
			307.52-307.78m: breccia							
			308.66-308.86m: QBC							
311.35			End of Hole: abandoned due to lack of power from the drill and thick clay/mud seams that were causing the rod string to stick. The presence of scheelite in the core above the final mud seam indicates that the hole was getting close to its target depth.							
		End of Hole	casing left in hole.							
			HOLE lost before proposed final depth ~ 400 metres							
			Projected depths: Upper Zone ~ 320m & Lower Zone ~ 340m							

Diamond Drill Core Log RT-08-49				Playfair Mining Ltd.						
Azimuth 225		Project: RISBY TUNGSTEN YUKON		Section Line 2700W						
Dip -65.0		NTS:105 F/14 UTM Zone 8 NAD 83		Start Date ? Core Size BTW						
Length (m) 7.01		UTM East: 585221 (585340 NAD27)		Finish Date ? Core stored onsite						
Dip Test na		UTM North: 6860444 (6860260 NAD27)		Logged By Mark Nelson						
		Elev. (m) 1808m		Drilled by Superior Drilling, Peachland BC						
		Local Grid Co-ord: same site as 48		Analyses by Eco Tech, Kamloops BC						
Interval (m)		Sample #'s:								
From	To	Lithology	Description	Sample #	From m	To m	Length m	W ppm	Cu ppm	WO3 %
0.00	5.80	Overburden	and casing. Casing remains in place							
5.80	7.01	QBC	Quartz-Biotite-Chlorite schist; cm-thick qtz veins, weak foliation and rubble zone							
			6.80-7.01m: breccia/rubble zone							
7.01			End of Hole: hole abandoned before target depth of 310m							
		End of Hole	casing left in hole?							

Diamond Drill Core Log RT-08-50				Playfair Mining Ltd.						
Azimuth 225		Project: RISBY TUNGSTEN YUKON		Section Line 2600W						
Dip -55.0		NTS:105 F/14 UTM Zone 8 NAD 83		Start Date 7-Sep-08 Core Size HQ/NQ						
Length (m) 313.94		UTM East: 585144 (585263 NAD27)		Finish Date 18-Sep-08 Core stored onsite						
Dip Test 225.3/-56.3 @ 137.16m		UTM North: 6860543 (6860358 NAD27)		Logged By Mark Nelson						
228.8/-55.4 @ 307.85m		Elev. (m): 1779		Drilled by Refined Energy, Edmonton						
		Local Grid Co-ord: on old drill road Same setup as hole 51		Analyses by Eco Tech, Kamloops BC						
Interval (m)		Sample #'s: 7R127153 - 7R127213								
From	To	Lithology	Description	Sample #	From m	To m	Length m	W ppm	Cu ppm	WO3 %
178.01	200.23	Qtz+Chl+Bt	QCB; definately more chlorite-rich, greener; mod RQD and good recovery; UC covered in mud; LC sharp 180.00m: foliation @~ 70 to CA 192.00m: foliation @~ 80 to CA 192.29m: trace scheelite mineralization begins 192.58-192.60m: 10% scheelite 193.41-193.64m: heterogenous distribution; ~2% scheelite 197.70m: foliation @~ 75 to CA							
				7R127159	191.29	192.29	1.00	<0.001	33	nil
				7R127160	192.29	193.29	1.00	0.012	45	0.015
				7R127161	193.29	194.29	1.00	0.009	45	0.011
				7R127162	std @ 1.04%W & 4580 ppm Cu			1.039	4583	1.310
				7R127163	194.29	195.33	1.04	0.006	44	0.008
200.23	202.57	Breccia	highly oxidised; light orange; low RQD; numerour rehealed qtz veins; LC gradational							
202.57	211.10	Qtz+Bt+Chl	fairly low RQD; numerous small qtz vein; high proportion of Bt 205.61m: solitary scheelite 210.19m: foliation @~ 75 to CA							
211.10	220.46	Qtz+Chl+Bt	heterogenous scheelite distribution <1% overall 213.05m: foliation @~ 70 to CA 214.08-214.20m: scheelite 1% 216.52-216.70m: scheelite 2% 217.01-217.04m: scheelite 5% 218.26-218.35m: scheelite 2%	7R127164	212.07	213.07	1.00	0.006	29	0.008
				7R127165	213.07	214.07	1.00	0.036	23	0.045
				7R127166	214.07	215.07	1.00	0.034	55	0.043
				7R127167	215.07	216.08	1.01	0.027	56	0.034
				7R127168	216.08	217.08	1.00	0.051	27	0.064
				7R127169	217.08	218.08	1.00	0.003	21	0.004
				7R127170	218.08	219.12	1.04	0.024	8	0.030
				7R127171	219.12	220.51	1.39	0.001	57	0.001
220.46	229.47	Qtz+Bt+Chl		7R127172	220.51	221.50	0.99	<0.001	20	nil
				7R127173	221.50	222.50	1.00	<0.001	30	nil
229.47	240.76	Qtz+Chl+Bt	LC gradational 231.61m: foliation @~ 75 to CA 240.60m: foliation @~ 70 to CA							
240.76	256.03	Breccia	Breccia and mud zone; very poor RQD and mod recovery; substrate varies from black units that look like shale to lighter QBC units with qtz veins; breccia contains scheelite 247m: foliation @~ 75 to CA	7R127174	247.58	248.58	1.00	<0.001	23	nil
				7R127175	248.58	249.58	1.00	0.015	26	0.019
				7R127176	249.58	250.58	1.00	0.014	28	0.017
				7R127177	250.58	251.58	1.00	0.017	39	0.021
				7R127178	std @ 1.04%W & 4580 ppm Cu			1.049	4617	1.323
				7R127179	251.58	252.58	1.00	0.076	376	0.096
				7R127180	252.58	253.58	1.00	0.136	59	0.171
				7R127181	253.58	254.58	1.00	<0.001	74	nil
				7R127182	254.58	255.58	1.00	0.001	78	0.001
256.03	260.25	Qtz+Bt+Chl	very dark unit; mod RQD and Recovery; under short wave UV there is the yellowish luminescence 256.03-260.25m: yellowish luminescence 5-10% 259.00m: foliation @~ 80 to CA	7R127183	255.58	256.58	1.00	<0.001	41	nil
				7R127184	256.58	257.58	1.00	<0.001	35	nil
				7R127185	257.58	258.58	1.00	<0.001	41	nil
				7R127186	258.58	259.58	1.00	<0.001	30	nil
260.25	261.77	Qtz vein	Qtz veins							
261.77	265.65	Qtz+Bt+Chl	dark schist unit; rare blebs of sulfide (Po)	7R127187	261.84	262.84	1.00	<0.001	65	nil

Diamond Drill Core Log RT-08-50				Playfair Mining Ltd.						
Azimuth 225		Project: RISBY TUNGSTEN YUKON		Section Line 2600W						
Dip -55.0		NTS:105 F/14 UTM Zone 8 NAD 83		Start Date 7-Sep-08 Core Size HQ/NQ						
Length (m) 313.94		UTM East: 585144 (585263 NAD27)		Finish Date 18-Sep-08 Core stored onsite						
Dip Test 225.3/-56.3 @ 137.16m		UTM North: 6860543 (6860358 NAD27)		Logged By Mark Nelson						
228.8/-55.4 @ 307.85m		Elev. (m): 1779		Drilled by Refined Energy, Edmonton						
		Local Grid Co-ord: on old drill road Same setup as hole 51		Analyses by Eco Tech, Kamloops BC						
Interval (m)		Sample #'s: 7R127153 - 7R127213								
From	To	Lithology	Description	Sample #	From m	To m	Length m	W ppm	Cu ppm	WO3 %
		UPPER ZONE	0.263%WO3 over 4.46m (incl. 0.407% over 2.30m)	7R127188	262.84	263.84	1.00	0.020	58	0.025
				7R127189	263.84	264.84	1.00	0.423	28	0.533
265.65	266.07	Chl + Gnt	Chl+Gnt skarn; contains ~1-5% scheelite	7R127190	264.84	266.14	1.30	0.246	44	0.310
266.07	274.03	Qtz+Bt+Chl	QBC with lighter zones that appear to be felsic intrusions; thin heterogenous bands of scheelite	7R127191	266.14	267.30	1.16	0.098	110	0.124
			266.74-267.36m: monzonite	7R127192	267.30	268.30	1.00	0.074	89	0.093
			267.70-267.75m: 5% scheelite	7R127193	268.30	269.30	1.00	0.006	25	0.008
			268.11-269.30m: monzonite	7R127194	std @ 1.04%W & 4580 ppm Cu			1.051	4575	1.325
			269.30-269.72m: 1-5% scheelite	7R127195	269.30	270.30	1.00	0.185	79	0.233
			269.78-269.82m: 1% scheelite	7R127196	270.30	271.27	0.97	0.002	43	0.003
				7R127197	271.27	272.27	1.00	<0.001	37	nil
				7R127198	272.27	273.27	1.00	<0.001	34	nil
				7R127199	273.27	274.03	0.76	<0.001	80	nil
274.03	282.20	Chl + Gnt	Chl+Gnt skarn; contains ~1-5% scheelite over varying intervals	7R127200	274.03	275.03	1.00	0.100	29	0.126
		LOWER ZONE	274.67-274.76m: 1-5% scheelite	7R127201	275.03	276.53	1.50	0.049	35	0.062
			275.68-276.48m: 1% scheelite	7R127202	276.53	277.56	1.03	0.094	103	0.119
			277.39-277.56m: 0.5% scheelite	7R127203	277.56	278.56	1.00	0.097	109	0.122
			278.05-278.51m: 1-2% scheelite	7R127204	278.56	279.56	1.00	0.186	86	0.235
			279.19-281.36m: 1-5% scheelite plus 1-5% Po	7R127205	279.56	280.56	1.00	0.649	341	0.818
			281.36-281.50m: 10% scheelite	7R127206	280.56	281.56	1.00	0.456	140	0.575
			281.50-282.05m: 1-5% scheelite	7R127207	281.56	282.56	1.00	0.817	503	1.030
282.20	313.94	Qtz Monzonite	variably dark and light fine-med grained felsic intrusive; rare trace sulfide (Po); some chloritisation with trace garnet; mod RQD	7R127208	282.56	283.56	1.00	0.004	8	0.005
				7R127209	283.56	284.56	1.00	0.002	5	0.002
				7R127210	std @ 1.04%W & 4580 ppm Cu			1.047	4597	1.320
				7R127211	284.56	285.56	1.00	0.006	30	0.007
				7R127212	285.56	287.06	1.50	0.015	18	0.019
				7R127213	287.06	288.56	1.50	<0.001	11	nil
	313.94	End of Hole								

Diamond Drill Core Log RT-08-51				Playfair Mining Ltd.							
Azimuth 225		Project: RISBY TUNGSTEN YUKON		Section Line 2600W							
Dip -82.0		NTS:105 F/14 UTM Zone 8 NAD 83		Start Date 18-Sep-08 Core Size HQ/NQ							
Length (m) 328.57		UTM East: 585144 (585263 NAD27)		Finish Date 26-Sep-08 Core stored onsite							
Dip Test 226.9/-80.9 @ 139.60m		UTM North: 6860543 (6860358 NAD27)		Logged By Mark Nelson							
221.4/-73.2 @ 325.53m		Elev. (m): 1779		Drilled by Refined Energy, Edmonton							
Interval (m)		Local Grid Co-ord: on old drill road Same setup as hole 50		Analyses by Eco Tech, Kamloops BC							
From	To	Lithology	Description	Sample #	From m	To m	Length m	W ppm	Cu ppm	WO3 %	
0.00	3.85	Overburden	and casing								
3.85	41.65	Qtz+Bt+Chl	QBC with variable amounts of chlorite and qtz veining; unit is typically banded at the cm-scale with lighter, qtz-rich and darker, bt-rich subunits; RQD is generally moderate to low; fracture surfaces are frequently coated with FeOx staining 11.63m: foliation @~ 65 to CA 23.84m: foliation @~ 70 to CA 26.96-27.34m: folded or rehealed breccia zone; increased FeOx and decreased competency 29.76m: foliation @~ 55 to CA 29.76m: Qtz vein @~ 20 to CA 34.20m: minor folds and a qtz vein which offsets foliation by 1 cm 35.94m: foliation @~ 55 to CA								
41.65	42.82	Breccia	highly schistose/fissile unit; QBC substrate; low RQD								
42.82	50.91	Qtz+Bt+Chl	typical QBC								
50.91	59.61	Breccia	highly fractured with rubble and qtz veins								
59.61	90.44	Qtz+Bt+Chl	typical QBC 50.36m: foliation @~ 60 to CA 69.60m: foliation @~ 50 to CA 79.87m: fracture filled with calcite @~ 15 to CA 82.37-82.64m: mud 84.73m: foliation @~ 70 to CA 89.03-89.21m: mud								
90.44	103.90	Mud	mud and breccia zone; RQD is close to zero; recovery is sometimes moderate-poor; couple blockages; rare, fracture-filling sulfides (Py)								
103.90	133.10	Qtz+Bt+Chl	variable QBC with some very dark, Bt-rich sections and some lighter, greener, chlorite-rich sections; towards base of unit qtz veins are 1-5cm thick 107.73m: fracture @~ 20 to CA with Py+calcite 112.08m: foliation @~ 60 to CA 121.52m: foliation @~ 70 to CA 130.57m: foliation @~ 50 to CA								
133.10	137.86	Mud	mud and breccia zone; 50cm long black mud sub unit at base, perhaps due to cuttings; poor RQD 137.08m: end of HQ	@136.55m reduce to NQ core							
137.86	202.34	Qtz+Bt+Chl	QBC; RQD is typically moderate with some 20-50cm zones having poor RQD 166.26-166.50m: mud zone 166.93m: foliation @~ 60 to CA 170.14m: foliation @~ 65 to CA 182.80-188.45m: 5% other yellowish fluorescent mineral	7R127214	187.00	188.52	1.52	<0.001	61	nil	
				7R127215	188.52	189.52	1.00	0.043	162	0.054	
				7R127216	189.52	190.52	1.00	0.026	54	0.033	
				7R127217	190.52	191.52	1.00	0.006	52	0.007	
				7R127218	191.52	192.52	1.00	0.041	46	0.052	
				7R127219	192.52	193.52	1.00	<0.001	57	nil	
202.34	248.50	Qtz+Chl+Bt	green and black banded unit, well developed foliation @~ 60 to CA; UC is gradational; unit contains cm-wide bands of 1-5% scheelite	7R127220	209.70	210.70	1.00	<0.001	17	nil	

Diamond Drill Core Log RT-08-51				Playfair Mining Ltd.							
Azimuth 225		Project: RISBY TUNGSTEN YUKON		Section Line 2600W							
Dip -82.0		NTS:105 F/14 UTM Zone 8 NAD 83		Start Date 18-Sep-08 Core Size HQ/NQ							
Length (m) 328.57		UTM East: 585144 (585263 NAD27)		Finish Date 26-Sep-08 Core stored onsite							
Dip Test 226.9/-80.9 @ 139.60m		UTM North: 6860543 (6860358 NAD27)		Logged By Mark Nelson							
221.4/-73.2 @ 325.53m		Elev. (m): 1779		Drilled by Refined Energy, Edmonton							
Interval (m)		Local Grid Co-ord: on old drill road Same setup as hole 50		Analyses by Eco Tech, Kamloops BC							
From	To	Lithology	Description	Sample #	From m	To m	Length m	W ppm	Cu ppm	WO3 %	
			228.63-228.75m: ~5% scheelite	7R127221	214.78	215.80	1.02	0.009	39	0.011	
				7R127222	225.00	226.00	1.00	<0.001	35	nil	
				7R127223	226.00	227.00	1.00	0.010	71	0.012	
				7R127224	227.00	228.00	1.00	0.018	37	0.023	
				7R127225	std @ 1.04%W & 4580 ppm Cu			1.042	4683	1.314	
				7R127226	228.00	229.00	1.00	0.141	81	0.178	
				7R127227	229.00	230.00	1.00	0.019	42	0.024	
				7R127228	230.00	231.00	1.00	0.008	47	0.011	
				7R127229	231.00	232.00	1.00	<0.001	45	nil	
			233.04-233.61m: qtz vein	7R127230	232.00	233.00	1.00	<0.001	55	nil	
			233.67-233.83m: ~1% scheelite	7R127231	233.00	234.00	1.00	0.144	47	0.182	
				7R127232	234.00	235.00	1.00	<0.001	58	nil	
				7R127233	235.00	236.00	1.00	<0.001	57	nil	
				7R127234	236.00	237.00	1.00	<0.001	89	nil	
			238.89-238.95m: ~1% scheelite	7R127235	237.00	238.00	1.00	0.010	49	0.013	
				7R127236	238.00	239.00	1.00	0.093	41	0.117	
				7R127237	239.00	240.00	1.00	0.001	35	0.001	
				7R127238	240.00	241.00	1.00	0.001	83	0.001	
				7R127239	241.00	242.00	1.00	0.014	18	0.017	
				7R127240	242.00	243.23	1.23	0.007	27	0.008	
				7R127241	std @ 1.04%W & 4580 ppm Cu			1.051	4634	1.325	
				7R127242	243.23	244.23	1.00	0.017	33	0.022	
				7R127243	244.23	245.23	1.00	0.007	21	0.009	
				7R127244	245.23	246.23	1.00	0.019	19	0.023	
				7R127245	246.23	247.23	1.00	0.035	42	0.044	
				7R127246	247.23	248.50	1.27	0.007	120	0.009	
248.50	262.04	Qtz+Bt+Chl	fairly usual QBC; poor to mod RQD; no scheelite								
262.04	276.86	Qtz Feld Porph	Intermediate intrusive w/ Qtz+Feld porphyries; UC is gradational over 20cm; top 5m is brecciated w/ minor mud; trace scheelite present at LC; LC gradational	7R127247	273.74	274.72	0.98	<0.001	25	nil	
				7R127248	274.72	275.72	1.00	0.045	350	0.057	
				7R127249	275.72	276.76	1.04	0.093	40	0.117	
276.86	277.86	Semi Massive Sulfide	SMS; variably 5-30% sulfide (Po) w/ scheelite								
		UPPER ZONE (?)	276.85-277.35m: ~5% scheelite								
			277.35-278.00m: ~1% scheelite	7R127250	276.76	278.10	1.34	1.028	824	1.296	
277.86	293.62	Breccia	mixed breccia and mud zones; substrates include QBC, QBC, Chl+Gnt and Qtz veins; RQD is very poor; trace scheelite is rare	7R127251	288.07	289.57	1.50	0.054	125	0.068	
			288.65-288.80m: <1% scheelite in Chl+Gnt	7R127270	289.57	291.07	1.50	0.006	70	0.008	
				7R127252	291.07	292.57	1.50	0.002	83	0.002	

Upper Zone (?)
0.775% WO3 over 2.40m Incl 1.296%
over 1.34m

Diamond Drill Core Log RT-08-51				Playfair Mining Ltd.							
Azimuth 225		Project: RISBY TUNGSTEN YUKON			Section Line 2600W						
Dip -82.0		NTS:105 F/14 UTM Zone 8 NAD 83			Start Date 18-Sep-08 Core Size HQ/NQ						
Length (m) 328.57		UTM East: 585144 (585263 NAD27)			Finish Date 26-Sep-08 Core stored onsite						
Dip Test 226.9/-80.9 @ 139.60m		UTM North: 6860543 (6860358 NAD27)			Logged By Mark Nelson						
221.4/-73.2 @ 325.53m		Elev. (m): 1779			Drilled by Refined Energy, Edmonton						
		Local Grid Co-ord: on old drill road Same setup as hole 50			Analyses by Eco Tech, Kamloops BC						
Interval (m)		Sample #'s:									
From	To	Lithology	Description	Sample #	From m	To m	Length m	W ppm	Cu ppm	WO3 %	
293.62	296.76	Semi Massive Sulfide	SMS; variably 5-30% sulfide (Po) w/ scheelite; evidence of Chl+Gnt	7R127253	292.57	293.57	1.00	0.001	70	0.001	
		UPPER ZONE	293.62-293.89m: 1% scheelite	7R127254	293.57	295.10	1.53	0.354	328	0.446	
			294.59-287.10m: 1-5% scheelite	7R127255	295.10	296.10	1.00	1.090	1375	1.375	
296.76	298.00	Qtz+Bt+Chl	QBC w/ ~1% scheelite	7R127256	296.10	297.10	1.00	1.526	1380	1.925	
				7R127257	std @ 1.04%W & 4580 ppm Cu			1.048	4608	1.322	
298.00	307.54	Qtz+Chl+Bt	304.70-305.00m: <1% scheelite	7R127258	297.10	298.00	0.90	0.361	304	0.456	
				7R127259	298.00	299.54	1.54	0.034	64	0.043	
				7R127260	299.54	301.04	1.50	0.009	54	0.011	
				7R127261	301.04	302.54	1.50	0.017	52	0.021	
				7R127262	302.54	304.04	1.50	0.004	30	0.005	
				7R127263	304.04	305.01	0.97	0.021	35	0.026	
307.54	311.01	Qtz+Bt+Chl	310.65-310.78m: felsic intrusive (qtz+feld+bt)	7R127264	305.01	306.49	1.48	0.011	46	0.014	
				7R127265	306.49	308.03	1.54	0.001	28	0.001	
				7R127266	308.03	309.51	1.48	<0.001	38	nil	
				7R127267	309.51	311.01	1.50	0.001	51	0.001	
311.01	312.24	Qtz	Qtz vein	7R127268	311.01	312.25	1.24	0.003	46	0.004	
312.24	313.91	Semi Massive Sulfide	SMS; w/ Chl+Gnt; w/ scheelite	7R127269	312.25	313.25	1.00	0.442	583	0.557	
		LOWER ZONE	312.33-313.61m: 1-5% scheelite	7R127271	313.25	314.47	1.22	0.124	281	0.156	
			313.61-314.38m: <1% scheelite	7R127272	314.47	315.97	1.50	0.005	35	0.007	
313.91	318.73	Chl+Gnt	Chl+Gnt skarn; typical mottled green+pinky brown; some more bt-rich bands; LC is diffuse w/ qtz bands over 10cm; trace scheelite present; good RQD	7R127273	315.97	317.47	1.50	0.022	27	0.028	
			316.15-316.22m: trace disseminated scheelite	7R127274	std @ 1.04%W & 4580 ppm Cu			1.042	4603	1.314	
				7R127275	317.47	318.71	1.24	0.011	96	0.014	
318.73	328.57	Qtz Monz	fine-med graind intrusive, ranging from pale grey to dark grey; mod RQD	7R127276	318.71	320.21	1.50	0.001	2	0.002	
				7R127277	320.21	321.71	1.50	0.001	3	0.002	
328.57		End of Hole									

Diamond Drill Core Log RT-08-52					Playfair Mining Ltd.							
Azimuth 225 Dip -50.0 Length (m) 276.15 Dip Test 207.9 / -48.5 @138.9m 230.5 / -48.0 @276.1m			Project: RISBY TUNGSTEN YUKON NTS:105 F/14 UTM Zone 8 NAD 83 UTM East: 585741 (585860 NAD27) UTM North: 6860185 (6860000 NAD 27) Elev. (m) 1650 Local Grid Co-ord: same site as 53 Sample #'s: no7r127278-no7r127319			Section Line 3250W Start Date Sept. 30, 2008 Finish Date Oct. 05, 2008 Logged By K.C. Smith Drilled by Refined Energy Analyses by Eco Tech, Kamloops BC Core Size H/NQ Core stored onsite						
Interval (m)												
From	To	Lithology	Description			Sample #	From m	To m	Length m	mineralization %	W ppm	WO3 %
0.00	1.83	Overburden	and casing. Casing remains in place									
1.83	14.58	QBC	CO3 altered QBC with foliations in the schist between 60 and 70 degrees to core access. Sulphides primarily consist of pyrrhotite and pyrite and range from 2-5% of the rock composition. Small veins <10cm are found throughout the section. Heavy faulting and fracturing throughout the section. low rqd and recovery									
14.58	16.22	L/s vein	Limestone consisting of light to dirty consistencies. Region is heavily faulted throughout									
16.22	73.45	qbc	co3 alteration persists in schist to approx 23.51m. Angles of foliations in schist are the same as those seen between 1.83-14.58m. veining follows foliations. Qtz veins >10cm: 24.92-25.39m 29.55-29.88m 33.46-33.63m 40.48-40.78m 50.69-50.86m 58.39-58.45m 61.18-61.28m 54.63-54.76m Fault zones >10cm: 41.14-41.58 46.18-46.79 68.57-73.45m			n07r127278	36.14	37.14	1.00	trace scheelite	<0.001	nil
						n07r127279	40.00	41.00	1.00	trace scheelite	<0.001	nil
						no7r127280	46.79	47.79	1.00	trace scheelite	<0.001	nil
						no7r127281	52.98	53.98	1.00	trace scheelite	<0.001	nil
						no7r127282	60.21	61.21	1.00	trace scheelite	<0.001	nil
						no7r127283	63.62	64.62	1.00	trace scheelite	<0.001	nil
						no7r127284	104.08	105.08	1.00	trace scheelite	<0.001	nil
73.45	79.36	brx'd L/S	zone of highly faulted/brecciated limestone. Variations in limestone coloration range from white to black and much of the rock has been faulted to such an extent as to make it into clay. 2-3% sulphide mineralization in zone. No clean fault line.									
79.36	108.80	QBC	moderate to heavily fractured zone with minor faults <10cm wide and marked by the gouge. Same foliations and veining as seen above Qtz vein >10cm: 92.02-92.36m									
108.80	141.31	qtz monzonite	2-5% pyrite, highly faulted zone of grey intrusive volcanic of quartz, feldspar and hornblende. about 60% of the unit is broken into peices less then 8 cm, spread throughout down to gouge.			@ 142.0 m reduce to NQ core						

Diamond Drill Core Log RT-08-52				Playfair Mining Ltd.															
Azimuth 225 Dip -50.0 Length (m) 276.15 Dip Test 207.9 / -48.5 @138.9m 230.5 / -48.0 @276.1m			Project: RISBY TUNGSTEN YUKON NTS:105 F/14 UTM Zone 8 NAD 83 UTM East: 585741 (585860 NAD27) UTM North: 6860185 (6860000 NAD 27) Elev. (m) 1650 Local Grid Co-ord: same site as 53 Sample #'s: no7r127278-no7r127319				Section Line 3250W Start Date Sept. 30, 2008 Finish Date Oct. 05, 2008 Logged By K.C. Smith Drilled by Refined Energy Analyses by Eco Tech, Kamloops BC					Core Size H/NQ Core stored onsite							
Interval (m)																			
From	To	Lithology	Description				Sample #	From m	To m	Length m	mineralization %	W ppm	WO3 %						
141.31	237.30	qbc	foliations in the qbc range between 70 and 80 degrees to the core access. Zone has significant fracturing. Qtz veins >10cm: 157.15-157.32m 163.37-163.90m 164.97-165.14m 176.07-176.22 208.47-208.87m zones of major faulting 173.11-184.71m & 189.54-190.21m mineralization is about 10% at the lower contact with the monzonite for about one meter but it is not constant throughout the last two meters but are patches of 10- 15 cm with between spaces with spaces of 20-30 cm. Veins <5m run parallel to foliations. Which are same as seen above projected intercepts: upper zone ~210m & Lower zone ~ 245m																
							no7r127285	147.39	148.39	1.0	trace scheelite	0.002	0.003						
							no7r127286	157.09	158.09	1.0	trace scheelite	<0.001	nil						
							no7r127287	160.30	161.30	1.0	trace scheelite	<0.001	nil						
							no7r127288	165.93	166.93	1.0	2-3% scheelite, intermitent zones	0.015	0.019						
							no7r127289	167.93	168.93	1.0	2-3% scheelite, intermitent zones	0.024	0.030						
							no7r127290	168.93	169.93	1.0	2-3% scheelite, intermitent zones	0.005	0.006						
							no7r127291	169.93	170.93	1.0	2-3% scheelite, intermitent zones	0.017	0.021						
							no7r127292	172.16	173.16	1.0	2-3% scheelite, intermitent zones	0.046	0.058						
							no7r127293	175.56	176.56	1.0	2-3% scheelite, intermitent zones	0.067	0.084						
							no7r127294	176.56	177.56	1.0	2-3% scheelite, intermitent zones	0.018	0.023						
							no7r127295	177.56	178.17	0.6	2-3% scheelite, intermitent zones	0.046	0.058						
							no7r127296	179.54	180.36	0.8	2-3% scheelite, intermitent zones	0.034	0.043						
							no7r127297	193.32	193.85	0.5	2-3% scheelite, intermitent zones	<0.001	nil						
							no7r127298	195.10	196.10	1.0	2-3% scheelite, intermitent zones	0.129	0.163						
							no7r127299	199.94	200.92	1.0	2-3% scheelite, intermitent zones	<0.001	nil						
							no7r127300	203.23	204.23	1.0	2-3% scheelite, intermitent zones	0.053	0.067						
							no7r127301	204.23	205.23	1.0	2-3% scheelite, intermitent zones	0.051	0.064						
							no7r127302	205.23	206.23	1.0	3-5% scheelite, intermitent zones	0.004	0.005						
							no7r127303	206.23	207.23	1.0	3-5% scheelite, intermitent zones	<0.001	nil						
							no7r127304	207.23	208.23	1.0	3-5% scheelite, intermitent zones	0.011	0.014						
							no7r127305	208.23	209.23	1.0	3-5% scheelite, intermitent zones	0.600	0.757						
							Upper Zone? 208.23-209.23m: 1.0m of 0.757% WO3 to be sampled in future-->												
													no7r127306	217.20	218.20	1.0	3-5% scheelite, intermitent zones	0.018	0.023
													no7r127307	225.60	226.60	1.0	3-5% scheelite, intermitent zones	0.215	0.271
							Lower Zone? 225.60-228.69m: 3.09m of 0.189%WO3						no7r127308	226.60	227.60	1.0	3-5% scheelite, intermitent zones	0.064	0.081
													no7r127309	227.60	228.69	1.1	3-5% scheelite, intermitent zones	0.169	0.213
													no7r127310	228.99	std @ 1.04%W & 4580 ppm Cu		1.030	1.299	
													no7r127311	228.99	230.00	1.0	1-3% scheelite, intermitent zones	0.066	0.083

Diamond Drill Core Log RT-08-52				Playfair Mining Ltd.									
Azimuth 225 Dip -50.0 Length (m) 276.15 Dip Test 207.9 / -48.5 @138.9m 230.5 / -48.0 @276.1m			Project: RISBY TUNGSTEN YUKON NTS:105 F/14 UTM Zone 8 NAD 83 UTM East: 585741 (585860 NAD27) UTM North: 6860185 (6860000 NAD 27) Elev. (m) 1650 Local Grid Co-ord: same site as 53 Sample #'s: no7r127278-no7r127319				Section Line 3250W Start Date Sept. 30, 2008 Finish Date Oct. 05, 2008 Logged By K.C. Smith Drilled by Refined Energy Analyses by Eco Tech, Kamloops BC				Core Size H/NQ Core stored onsite		
Interval (m)													
From	To	Lithology	Description				Sample #	From m	To m	Length m	mineralization %	W ppm	WO3 %
							no7r127312	230.00	231.00	1.0	1-3% scheelite, intermitent zones	0.009	0.012
							no7r127313	231.00	232.00	1.0	1-3% scheelite, intermitent zones	<0.001	nil
							no7r127314	232.00	233.00	1.0	1-3% scheelite, intermitent zones	0.070	0.088
							no7r127315	233.00	234.00	1.0	1-3% scheelite, intermitent zones	0.055	0.069
							no7r127316	234.00	235.00	1.0	1-3% scheelite, intermitent zones	0.042	0.053
							no7r127317	235.00	236.00	1.0	1-3% scheelite, intermitent zones	0.070	0.088
							no7r127318	236.00	237.00	1.0	1-3% scheelite, intermitent zones	0.022	0.028
237.30	276.15	qtz monzonite	no visible mineralization of scheelite. Multiple zones of faulting >10cm throughout and marked by clay between 256.53-257.40 small dark limestone intrusion between 257.08-257.20 with ~5% sulphide mineralization rock is grey intrusive igneous rock, med grained. casing removed				no7r127319	237.00	238.00	1.0	1-3% scheelite, intermitent zones	<0.001	nil
		End of Hole											
		Comments	Down hole reflex ez-shot record date: october 5, 2008 hole depth: 456 feet (138.9 m) pulled back 0 feet azimuth, corrected (23.95): 207.9 azimuth not corrected: 183.95 inclination/dip: 48.5 Roll (toolface) rel to mag north: 260.6 magnetic field: 5775 Temperature: 6.8 Down hole reflex ez-shot record date: october 5, 2008 time hole depth: 906 feet (276.1m) pulled back 20 feet azimuth, corrected (23.95): 230.45 azimuth not corrected: 206.5 inclination/dip: 48.0 Roll (toolface) rel to mag north: 45.9 magnetic field: 5760 Temperature: 7.7										

Diamond Drill Core Log RT-08-53				Playfair Mining Ltd.								
Azimuth 225 Dip 85.0 Length (m) 266.09 Dip Test 222.3/ -84.5 @ 130.5 m 207.4/ -82.8 @ 264.6m			Project: RISBY TUNGSTEN YUKON NTS:105 F/14 UTM Zone 8 NAD 83 UTM East: 585741 (585860 NAD27) UTM North: 6860185 (6860000 NAD 27) Elev. (m) 1650 Local Grid Co-ord: same site as 52			Section Line 3250W Start Date 30-Sep-08 Finish Date 10-Oct-08 Logged By K.C. Smith Drilled by Refind Energy Analyses by Eco Tech, Kamloops BC					Core Size H&nq	Core stored onsite
Interval (m)			Sample #'s: no7r127320-no7r127359									
From	To	Lithology	Description			Sample #	From	To	Length	mineralization	W	WO3
0.00	2.44	casing	casing and overburden									
2.44	10.61	QBC	Quartz, biotite, chlorite, carbonate schist. Foliations are 40-50 degrees to core axis.									
10.61	17.68	Lime stone	white to grey in colouration. Mild banding of the two different colours in some regions, massive in others. Bands are 60-70 degrees to the core axis. Unit is highly fractured and faulted for approximately 60 % of the unit.									
17.68	92.64	QBC	highly faulted and contains a large amount of carbonate as unit fizzes freely throughout. Foliations are seen in the non fractured rock only and are slightly crenulated. Angles of foliations to core axis vary from 10-30 degrees to ca in both directions (possibly core put in box backwards?). minor qtz veining parallel to foliations begin to be seen at apprx 33m depth.									
			faulted/fractured zone >10cm marked by gouge + clay			127320	51.61	52.62	1.0	trace scheelite	0.002	0.003
			17.68 - 21.52 (majorly faulted)									
			44.87 - 46.50			127321	56.25	57.25	1.0	trace scheelite	0.001	0.001
			46.90 - 47.23									
			54.32 - 55.30			127322	76.77	77.77	1.0	trace scheelite	0.001	0.001
			58.27 - 58.85									
			Quartz veins >10cm			127323	90.83	91.81	1.0	trace scheelite	0.002	0.003
			51.21 - 51.81									
			55.77 - 56.13									
			67.54 - 67.77									
			70.57 - 71.95									
92.64	93.98	organic	highly fractured region of black, soft coal, possibly broken down graphite? 5-6% pyrite in small concentrated masses throughout the unit (1-2cm across). Top contact at ~55 degree angle to core axis, lower contact marked by a fault and is not measurable (found at 93.75 - 93.98m).									
			dirty limestone (likely due to intermixed organics). Quarz veins and layers of mature coal/graphite (is shiny until rubbed then becomes less lustrous). 5% pyrite finely disseminated throughout. Lower contact was not measurable as is not clear cut.									
			foliations from 50-60 degrees to core access. Moderately fractured to highly fractured thorough unit. Most fractures are along foliations. 5-8% pyrite									
			faults > 10cm. Marked by gouge and clay									
			104.83 - 105.07									
101.22	115.72	QBC	105.32 - 106.07									
			111.45 - 115.72									
			Black intrusive rock of fine to med grain size. Feldspars and sulphides plus small regions of specular hematite. Highly faulted between 115.92 to 120.02									

Diamond Drill Core Log RT-08-53				Playfair Mining Ltd.									
Azimuth 225 Dip 85.0 Length (m) 266.09 Dip Test 222.3/ -84.5 @ 130.5 m 207.4/ -82.8 @ 264.6m			Project: RISBY TUNGSTEN YUKON NTS:105 F/14 UTM Zone 8 NAD 83 UTM East: 585741 (585860 NAD27) UTM North: 6860185 (6860000 NAD 27) Elev. (m) 1650 Local Grid Co-ord: same site as 52 Sample #'s: no7r127320-no7r127359				Section Line 3250W Start Date 30-Sep-08 Finish Date 10-Oct-08 Logged By K.C. Smith Drilled by Refiend Energy Analyses by Eco Tech, Kamloops BC				Core Size H&nq Core stored onsite		
Interval (m)			Description vuggy in places, about 5% mafics visible (likely hornblende) 45% quartz and 50% fine grained feldspars? Sauseritization of feldspars present and chlorite alteration visible along hairline fractures. Carbonate veinlettes of less then or equal to 1mm throughout. moderate to heavy fracturing of the rock. fractures range from 20 - 70 degrees to core access in both directions (possibly due to some peices being put in the wrong direction). contact is brecciated with no clear contgact angle and found between 146.69 - 165.14m. differentiation within the unit is present and crystal size varies between fine to medium grain. colouration ranges from medium grey to dark grey. the medium grey is mottled where as the dark grey is solid. Faults >10cm, marked by gouge: 126.09-126.55, 135.30-135.48, 139.73-141.88, 130.73-131.02, 142.44-142.64, 155.65-170.08, 160.93-161.25, 165.05-179.08				Sample #	From	To	Length	mineralization	W	WO3
From 125.42	To 165.14	Lithology Monzonite/ bleached diorite?					@ 138.9m reduce to NC core						
165.14	209.70	QBC	quartz veins parallell to foliations begins around 172.11m. Heavy fracturing and faulting to ~172.11m fault zones >10 cm marked by gouge and clay 165.05-179.08 quartz veins > 10cm 174.68-175.02 177.27-177.72 183.00-183.45 184.18-184.64 178.34-178.86 189.63-190.19 190.87-191.47 195.71-196.46 197.24-197.51 197.70-197.96										
				127324	175.11	176.11	1.0	trace scheelite	0.006	0.008			
				127325	177.69	178.35	0.7	trace scheelite	0.015	0.019			
				127326	181.29	182.29	1.0	trace scheelite	0.012	0.015			
				127327	184.81	185.81	1.0	trace scheelite	0.015	0.019			
				127328	185.81	186.81	1.0	trace scheelite	0.023	0.029			
				127329	186.81	187.81	1.0	trace scheelite	0.054	0.068			
				127330	187.81	188.81	1.0	trace scheelite	0.011	0.014			
				127331	188.81	189.91	1.1	trace scheelite	0.059	0.074			
				127332	198.75	199.75	1.0	trace scheelite	0.036	0.045			
				127333	199.75	200.75	1.0	trace scheelite	0.035	0.044			
				127334	200.75	201.75	1.0	trace scheelite	0.005	0.006			
				127335	201.75	202.75	1.0	2-3% scheelite	0.001	0.001			

Diamond Drill Core Log RT-08-53				Playfair Mining Ltd.							
Azimuth 225 Dip 85.0 Length (m) 266.09 Dip Test 222.3/ -84.5 @ 130.5 m 207.4/ -82.8 @ 264.6m			Project: RISBY TUNGSTEN YUKON NTS:105 F/14 UTM Zone 8 NAD 83 UTM East: 585741 (585860 NAD27) UTM North: 6860185 (6860000 NAD 27) Elev. (m) 1650 Local Grid Co-ord: same site as 52 Sample #'s: no7r127320-no7r127359			Section Line 3250W Start Date 30-Sep-08 Finish Date 10-Oct-08 Logged By K.C. Smith Drilled by Refind Energy Analyses by Eco Tech, Kamloops BC				Core Size H&N	Core stored onsite
Interval (m)		Lithology	Description	Sample #	From	To	Length	mineralization	W	WO3	
From	To										
				127347	240.56	241.53	1.0	2-3% scheelite	0.013	0.016	
				127348	242.25	243.25	1.0	2-3% scheelite	0.044	0.055	
				127349	245.28	246.28	1.0	2-3% scheelite	0.007	0.009	
				127350	246.28	247.28	1.0	2-3% scheelite	0.003	0.004	
				127351	247.28	248.28	1.0	2-3% scheelite	0.043	0.054	
				127352	248.28	249.28	1.0	2-3% scheelite	0.004	0.005	
		127353	249.28	250.28	1.0	2-3% scheelite	0.001	0.001			
		127354	250.28	251.28	1.0	2-3% scheelite	0.007	0.009			
252.87	266.09	limestone	weakly to strongly banded limestone with quartz veins 10-40 degrees to core axis throughout. Bands of the l/s are 60-70 degrees to ca	127355	std @ 1.04%W & 4580 ppm Cu				1.025	1.293	
				127356	251.28	252.28	1.0	2-3% scheelite	0.005	0.006	
				127357	252.28	253.28	1.0	2-3% scheelite	0.002	0.003	
				127358	253.28	254.28	1.0	2-3% scheelite	0.017	0.021	
				127359	254.28	255.28	1.0	2-3% scheelite	0.008	0.010	
			Projected depths (based on RT08-52): Upper Zone 248m & Lower Zone 275m; Hole stopped short of lower zone and qtz monzonite due to severe weather/drilling conditions								
		Comments	Down hole reflex ez-shot record date: october 10, 2008 time 5:00 hole depth: 428 feet (130.45 m) pulled back 0 feet azimuth, corrected (23.95): 222.3 azimuth not corrected: 198.3 inclination/dip: 84.5 Roll (toolface) rel to mag north: 310.1 magnetic field: 5847 Temperature: 7.9 Down hole reflex ez-shot record date: october 14, 2008 time: 4:00 hole depth: 868 feet (264.57m) pulled back: 20 feet azimuth, corrected (23.95): 207.4 azimuth, not corrected: 183.4 inclination/dip: 82.8 Roll (toolfaceP rel to mag north: 232.1 magnetic field: 5799 temperature: 12.1								

Hole #	Wardrop Section	UTM Coordinates (NAD 83)			UTM Coordinates (NAD 27)			Dip Degs.	Azimuth Degs.	Length Meters	Casing In place	Comments
		East	North	Elev (m)	East	North	Elev (m)					
RT08-47	3300W	585722	6860094	1669	585841	6859909	1669	-90	225	152.10	no	hole lost before target depth of ~290m
RT08-48	2700W	585221	6860444	1808	585340	6860260	1808	-90	225	311.35	yes	hole lost before target depth of ~400m
RT08-49	2700W	585221	6860444	1808	585340	6860260	1808	-65	225	7.01	yes	hole lost before target depth of ~310m
RT08-50	2600W	585144	6860543	1779	585263	6860358	1779	-55	225	313.94	no	H/NQ
RT08-51	2600W	585144	6860543	1779	585263	6860358	1779	-82	225	328.57	no	H/NQ
RT08-52	3250W	585741	6860185	1650	585860	6860000	1650	-50	225	276.15	no	H/NQ
RT08-53	3250W	585741	6860185	1650	585860	6860000	1650	-85	225	266.09	no	H/NQ stopped short of target due to waterline freeze
										1,655.21		

DDH	depth	Azimuth	dip	Magnetics (nt)
RT08-47	0.00	225.0	-90.0	na
RT08-48	0.00	225.0	-90.0	na
RT08-48	92.35	229.5	-88.5	na
RT08-48	183.18	210.9	-86.7	na
RT08-48	274.62	218.6	-84.8	na
RT08-49	0.00	225.0	-65.0	na
RT08-50	0.00	225.0	-55.0	na
RT08-50	137.16	225.3	-56.3	na
RT08-50	307.85	228.8	-55.4	na
RT08-51	0.00	225.0	-82.0	na
RT08-51	139.60	226.9	-80.9	na
RT08-51	325.53	221.4	-73.2	na
RT08-52	0.00	225.0	-50.0	na
RT08-52	138.90	207.9	-48.5	5775
RT08-52	276.10	230.5	-48.0	5760
RT08-53	0.00	225.0	-85.0	na
RT08-53	130.50	222.3	-84.5	5847
RT08-53	264.60	207.4	-82.8	5799

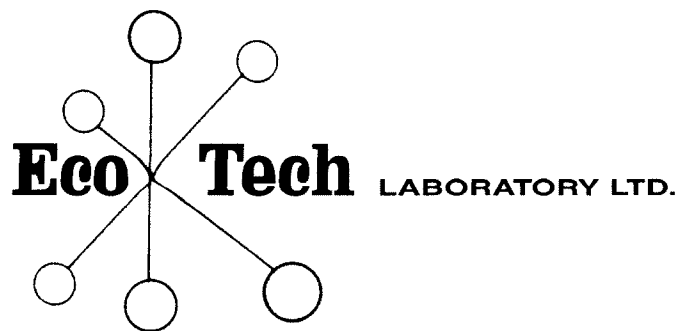
Eco Tech Lab Measured SG				
Sample #	WO3%	SG g/cm ³	Eco Tech Work Order	DDH
7R127189	0.533	3.00	AW 2008-8468	RT08-50
7R127190	0.310	2.91	AW 2008-8468	RT08-50
7R127204	0.235	3.01	AW 2008-8468	RT08-50
7R127205	0.818	2.93	AW 2008-8468	RT08-50
7R127207	1.030	2.78	AW 2008-8468	RT08-50
7R127250	1.296	2.84	AW 2008-8506	RT08-51
7R127254	0.446	2.81	AW 2008-8506	RT08-51
7R127256	1.924	2.97	AW 2008-8506	RT08-51
7R127258	0.455	2.18	AW 2008-8506	RT08-51
7R127269	0.557	3.06	AW 2008-8506	RT08-51
Average		2.85		
Field Measured Tungsten enriched skarn measurements only				
DDH	Litho	SG	WO3%	Sample ID
RT06-02	Skarn	2.59	0.59	428858
RT06-02	Skarn	3.12	0.79	428859
RT06-02	Skarn	3.05	0.14	428864
RT06-05	Skarn	3.01	0.01	428900
RT06-05	Skarn	3.40	1.87	428915
RT06-05	Skarn	3.21	1.87	428915
RT06-06	QBC + grnt	2.74	0.14	429064
RT06-06	Skarn + ser	3.53	1.97	429098
RT06-06	Skarn + ser	2.90	1.07	429110
RT08-50	CHL+GNT+sk	2.98	0.58	127206
Average		3.05		
Average of both Eco Tech & PLY 20078 Field Measure = 2.95 g/cm ³				

DDH	Litho	From (m)	To (m)	dry (g)	in water (g)	SG	WO3%	Sample ID
RT06-01	QBC	8.94	9.09	260.9	169.5	2.85		
	QBC	13.20	13.31	162.4	104.3	2.80		
	QCB + grnt	18.43	18.61	330.0	226.0	3.17		
	QCB	24.12	24.33	371.4	252.0	3.11		
	QCB	30.10	30.21	413.0	263.5	2.76		
	QBC + TR SCHEELITE	36.96	37.08	173.1	111.8	2.82		
	QBC	42.07	42.23	274.0	177.8	2.85		
	QBC + TR SCHEELITE	47.41	47.52	421.3	271.3	2.81		
	QBC	57.07	57.24	247.5	157.5	2.75		
	QBC + PO	58.95	59.08	227.2	151.5	3.00		
	QCB	63.54	63.64	179.1	118.5	2.96		
	QBC	72.03	72.17	468.2	298.5	2.76		
	QBC	78.90	79.00	252.3	161.2	2.77		
	QBC	83.41	83.54	214.3	137.0	2.77		
	QBC	90.71	90.90	300.2	194.2	2.83		
	QCB + grnt	93.88	93.94	229.4	158.6	3.24		
	Qtz Mon	100.02	100.18	542.9	338.2	2.65		
	Qtz Mon	106.17	106.34	567.6	350.0	2.61		
	Qtz Mon	112.01	112.18	598.2	370.0	2.62		
	Qtz Mon	115.22	115.32	338.5	207.8	2.59		
mineralized interval not tested.								
RT06-02	QBC	8.45	8.57	221.5	147.5	2.99		
	QBC	13.75	13.87	195.6	126.6	2.83		
	QTZ PORPH W/ DISS PO	17.71	17.85	485.3	305.0	2.69		
	QCB	19.58	19.77	346.6	235.0	3.11		
	QBC	22.68	22.82	237.6	161.5	3.12		
	QCB	25.67	25.80	482.0	318.5	2.95		
	QBC	30.10	30.18	123.1	79.5	2.82		
	QCB	31.07	31.27	322.0	217.0	3.07		
	QBC	37.30	37.42	425.5	272.0	2.77		
	QCB	44.96	45.06	168.5	113.0	3.04		
	QCB	45.96	46.03	141.0	45.0	1.47		
	QCB	50.42	50.51	157.7	106.5	3.08		
	QCB	53.65	53.76	208.2	143.2	3.20		
	QBC	56.86	57.03	271.0	179.0	2.95		
	QBC	59.80	59.88	279.1	178.5	2.77		
	QBC	60.50	60.59	340.8	215.5	2.72		
	QBC	65.13	65.34	702.0	450.0	2.79		
	Skarn	73.06	73.12	96.0	59.0	2.59	0.59	428858
	Skarn	75.37	75.50	237.0	161.0	3.12	0.79	428859
	Skarn	77.50	77.62	226.0	152.0	3.05	0.14	428864
RT06-05	QBC	81.35	81.42	134.0	87.0	2.85		
	Qtz Mon	83.70	83.80	373.0	230.0	2.61		
	QTZ	91.95	92.10	229.0	142.0	2.63		
RT06-05	QBC	12.13	12.27	531.3	339.2	2.77		
	QCB	31.53	31.63	171.4	111.0	2.84		
	QBC	45.61	45.67	291.7	180.2	2.62		
	QBC	72.51	72.61	328.8	202.3	2.60		
	QCB	82.57	82.67	173.6	113.3	2.88		
	QTZ	87.73	87.86	472.1	297.2	2.70		
	QCB	93.94	94.05	413.3	269.2	2.87		
	QBC	109.14	109.32	298.5	191.9	2.80		
	QBC	121.30	121.42	437.8	281.8	2.81		
DDH	Litho	From (m)	To (m)	dry (g)	in water (g)	SG	WO3%	Sample ID
	QBC	127.75	127.85	162.3	104.8	2.82		
	QTZ PORPH	133.28	133.46	585.0	366.8	2.68		
	QCB	139.54	139.67	220.2	142.0	2.82		
	Skarn	143.76	143.92	235.3	157.0	3.01	0.01	428900
	QBC	149.89	150.00	182.9	113.6	2.64		
	Skarn	160.38	160.53	333.0	235.0	3.40	1.87	428915

	Skarn	160.82	160.90	156.6	107.8	3.21	1.87	428915
	QCB	169.94	170.10	266.9	175.1	2.91		
	QBC	172.98	173.10	198.0	126.2	2.76		
	QTZ	177.71	178.00	151.3	94.8	2.68		
	Qtz Mon	188.08	188.18	299.7	186.0	2.64		
	Qtz Mon	191.03	191.22	641.4	398.4	2.64		
RT06-06	QBC	19.70	19.82	444.4	282.5	2.74		
	QBC	26.42	26.50	308.3	199.3	2.83		
	QBC	37.73	37.81	267.9	170.2	2.74		
	QBC	54.43	54.51	273.8	175.1	2.77		
	QBC	60.95	61.09	510.8	330.5	2.83		
	QBC	66.75	66.82	121.5	78.2	2.81		
	QBC	72.76	72.85	140.6	89.8	2.77		
	QBC	77.78	77.89	161.4	102.1	2.72		
	QTZ	85.10	85.25	253.0	157.8	2.66		
	QBC	88.09	88.21	200.0	125.2	2.67		
	QCB	94.21	94.35	131.1	150.4	-6.79		
	QCB	99.40	99.51	188.7	125.7	3.00		
	QBC	106.77	106.89	180.4	118.2	2.90		
	QBC + QTZ	112.47	112.57	170.9	107.5	2.70		
	QBC	121.62	121.75	212.6	134.5	2.72		
	QBC	124.92	125.06	185.5	98.7	2.14		
	QBC	130.49	130.66	265.7	162.7	2.58		
	QBC	134.62	134.70	162.5	100.8	2.63		
	QBC	142.95	143.04	95.3	42.0	1.79		
	QBC + QTZ	149.30	149.46	226.9	124.1	2.21		
	QBC + PO	155.47	155.61	184.3	103.0	2.27		
	QBC	160.94	161.03	138.2	88.0	2.75		
	QBC	168.02	168.18	250.8	158.2	2.71		
	QBC + QTZ	173.43	173.57	233.2	147.7	2.73		
	QBC + grnt skarn	179.55	179.70	251.6	159.8	2.74	0.14	429064
	BX	185.45	185.62	267.4	163.3	2.57		
	QBC + grnt skarn	193.06	193.19	242.5	166.8	3.20	0.23	429079
	QBC	197.82	197.95	448.3	285.8	2.76		
	QBC + grnt skarn	207.00	207.14	244.0	168.2	3.22	0.26	429090
	Skarn + semi-massive po	211.44	211.69	268.4	192.3	3.53	1.97	429098
	QBC	219.15	219.27	453.8	293.5	2.83		
	Skarn + semi-massive po	225.16	225.25	163.2	107.0	2.90	1.07	429110
	QBC + grnt skarn	228.30	228.38	149.2	100.8	3.08	0.01	429115
	QCB + PO	233.64	233.81	326.6	223.5	3.17	0.01	429120
	Qtz Mon	239.49	239.63	227.8	140.6	2.61		
RT08-48	QBC	271.77	271.89	215.0	50.0	1.30		
	QTZ	277.31	277.50	468.0	282.0	2.52		
	QBC	304.23	304.47	341.0	520.0	-1.91		
RT08-50	CHL+GNT+SCH	281.32	281.53	1179.0	784.0	2.98	0.58	127206
	Tungsten enriched skarn measurements only							
RT06-02	Skarn	73.06	73.12	96.0	59.0	2.59	0.59	428858
RT06-02	Skarn	75.37	75.50	237.0	161.0	3.12	0.79	428859
RT06-02	Skarn	77.50	77.62	226.0	152.0	3.05	0.14	428864
RT06-05	Skarn	143.76	143.92	235.3	157.0	3.01	0.01	428900
RT06-05	Skarn	160.38	160.53	333.0	235.0	3.40	1.87	428915
RT06-05	Skarn	160.82	160.90	156.6	107.8	3.21	1.87	428915
RT06-06	QBC + grnt skarn	179.55	179.70	251.6	159.8	2.74	0.14	429064
RT06-06	Skarn + semi-massive po	211.44	211.69	268.4	192.3	3.53	1.97	429098
RT06-06	Skarn + semi-massive po	225.16	225.25	163.2	107.0	2.90	1.07	429110
RT08-50	CHL+GNT+SCH	281.32	281.53	1179.0	784.0	2.98	0.58	127206
					Average SG	3.05		



Appendix C: 2008 Core sample Analytical Results



ASSAYING, GEOCHEMISTRY
ANALYTICAL CHEMISTRY
ENVIRONMENTAL TESTING
ISO 9001 Accredited Co.

10041 Dallas Drive, Kamloops, BC V2C 6T4
Phone (250) 573-5700 Fax (250) 573-4557
E-mail: info@ecotechlab.com
www.ecotechlab.com

CERTIFICATE OF ASSAY AK 2008-8205

Playfair Mining Ltd.
470 Granville St, Suite 520
Vancouver, BC
V6C 1V5

29-Aug-08

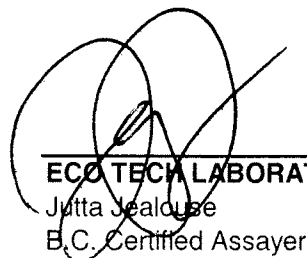
No. of samples received: 26
Sample Type: Core
Project: RT08-47
Submitted by: Mark Nelson

ET #.	Tag #	W (%)
1	7R125501	0.002
2	7R125502	0.001
3	7R125503	0.001
4	7R125504	0.006
5	7R125505	0.008
6	7R125506	0.001
7	7R125507	0.001
8	7R125508	<0.001
9	7R125509	<0.001
10	7R125510	0.001
11	7R125511	<0.001
12	7R125512	<0.001
13	7R125513	<0.001
14	7R125514	<0.001
15	7R125515	<0.001
16	7R125516	1.051
17	7R125517	0.002
18	7R125518	0.001
19	7R125519	0.001
20	7R125520	0.001
21	7R125521	0.001
22	7R125522	0.001
23	7R125523	0.001
24	7R125524	0.002
25	7R125525	0.002
26	7R125526	0.003

QC DATA:

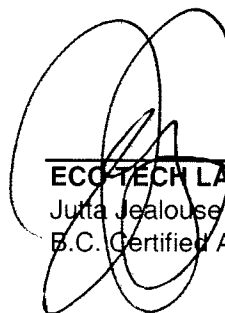
Repeat:

1	7R125501	0.001
10	7R125510	0.002


ECO TECH LABORATORY LTD.
Jutta Jealous
B.C. Certified Assayer

ET #.	Tag #	W (%)
Resplit:		
1	7R125501	0.002
Standard:		
TLG-1		0.083
TLG-1		0.082
MP2		0.654
CT-1		1.040

JJ/nw
XLS/07



ECOTECH LABORATORY LTD.
Julia Jealouse
B.C. Certified Assayer

ECO TECH LABORATORY LTD.

10041 Dallas Drive

KAMLOOPS, B.C.

V2C 6T4

ICP CERTIFICATE OF ANALYSIS AK 2008- 8205

Playfair Mining Ltd.

470 Granville St, Suite 520

Vancouver, BC

V6C 1V5

Phone: 250-573-5700

Fax : 250-573-4557

No. of samples received: 26

Sample Type: Core

Project: Risby Tungsten

Shipment # : RT08-47

Submitted by: Mark Nelson

Values in ppm unless otherwise reported

Et #.	Tag #	Ag	Al %	As	Ba	Bi	Ca %	Cd	Co	Cr	Cu	Fe %	La	Mg %	Mn	Mo	Na %	Ni	P	Pb	Sb	Sn	Sr	Ti %	U	V	W	Y	Zn
1	7R125501	<0.2	1.84	15	50	<5	1.18	<1	16	82	15	3.49	30	0.95	340	4	0.02	33	530	26	5	<20	15	0.06	<10	42	<10	9	31
2	7R125502	<0.2	1.93	40	55	<5	0.61	<1	18	91	17	3.49	30	0.95	316	4	0.02	38	400	28	10	<20	<1	0.08	<10	45	<10	8	33
3	7R125503	<0.2	1.82	25	50	<5	2.07	<1	13	70	4	3.02	30	0.97	359	3	0.03	28	570	24	10	<20	81	0.06	<10	36	<10	12	29
4	7R125504	<0.2	1.44	20	85	<5	0.75	<1	9	50	20	2.17	20	0.64	312	2	0.07	4	700	22	5	<20	203	0.11	<10	43	<10	10	29
5	7R125505	<0.2	2.11	25	125	10	0.92	<1	19	72	25	3.77	<10	0.95	516	3	0.04	25	520	26	<5	<20	37	0.16	<10	51	<10	5	53
6	7R125506	<0.2	2.39	10	140	20	0.29	<1	20	101	25	3.99	<10	1.06	382	4	0.03	32	390	26	5	<20	26	0.19	<10	51	<10	1	59
7	7R125507	<0.2	1.16	10	100	<5	0.89	<1	7	64	11	2.11	10	0.61	415	2	0.05	4	660	18	5	<20	12	0.12	<10	44	<10	10	36
8	7R125508	<0.2	1.24	10	125	10	0.96	<1	8	65	13	2.07	10	0.64	444	3	0.06	4	680	18	10	<20	17	0.14	<10	47	<10	10	35
9	7R125509	<0.2	1.42	10	95	10	1.60	<1	11	67	9	2.39	20	0.82	468	2	0.05	11	570	18	10	<20	14	0.11	<10	40	<10	9	35
10	7R125510	<0.2	2.19	25	125	5	0.67	<1	22	105	22	3.63	<10	1.00	428	5	0.06	33	410	28	10	<20	28	0.15	<10	50	<10	3	57
11	7R125511	<0.2	2.65	40	105	5	0.70	<1	25	90	29	4.85	<10	1.27	465	6	0.04	42	620	32	20	<20	24	0.13	<10	56	<10	4	87
12	7R125512	<0.2	2.76	20	145	10	0.64	<1	25	99	98	4.75	<10	1.39	512	5	0.04	42	660	32	15	<20	22	0.18	<10	57	<10	3	84
13	7R125513	<0.2	2.79	20	125	20	0.33	<1	26	93	33	4.87	<10	1.24	477	4	0.04	40	580	32	15	<20	14	0.19	<10	59	<10	2	90
14	7R125514	<0.2	2.87	10	135	15	0.50	<1	27	91	31	4.97	<10	1.30	482	5	0.04	42	560	36	15	<20	12	0.20	<10	60	<10	2	87
15	7R125515	<0.2	2.71	10	115	15	0.28	<1	27	93	32	4.90	<10	1.27	407	3	0.08	39	530	34	<5	<20	5	0.18	<10	53	<10	<1	89
16	7R125516	1.9	1.01	<5	110	885	3.47	5	72	20	4576	>10	<10	1.08	646	15	0.06	113	380	20	<5	<20	85	0.15	<10	11	<10	<1	64
17	7R125517	<0.2	2.52	25	75	15	0.50	<1	25	79	31	4.86	<10	1.19	404	5	0.03	42	410	36	10	<20	11	0.11	<10	48	<10	4	85
18	7R125518	<0.2	1.26	15	45	<5	1.54	<1	6	60	14	2.00	10	0.61	233	<1	0.07	3	810	20	<5	<20	19	0.06	<10	36	<10	15	22
19	7R125519	<0.2	1.35	25	60	<5	1.67	<1	7	52	19	2.18	20	0.62	226	3	0.07	4	780	22	<5	<20	17	0.07	<10	38	<10	15	23
20	7R125520	<0.2	1.19	10	80	<5	1.42	<1	7	56	21	2.25	10	0.62	284	2	0.06	3	760	22	10	<20	18	0.10	<10	41	<10	14	27
21	7R125521	<0.2	1.03	15	55	<5	2.07	<1	6	48	22	1.98	20	0.53	317	3	0.05	3	680	20	5	<20	17	0.05	<10	35	<10	14	28
22	7R125522	<0.2	1.21	10	90	<5	1.27	<1	7	54	16	2.01	20	0.57	292	4	0.07	4	680	24	10	<20	20	0.08	<10	41	<10	13	33
23	7R125523	<0.2	1.09	5	70	5	1.44	<1	6	63	15	1.98	20	0.52	304	3	0.06	4	670	22	10	<20	14	0.07	<10	36	<10	12	32
24	7R125524	0.2	1.13	15	80	<5	0.93	<1	7	70	10	2.14	10	0.58	356	2	0.06	5	650	20	5	<20	11	0.10	<10	40	<10	10	50
25	7R125525	1.2	1.24	10	60	<5	1.32	<1	7	68	18	2.12	20	0.56	323	2	0.06	6	640	24	<5	<20	8	0.07	<10	34	<10	11	37
26	7R125526	<0.2	1.15	20	70	<5	0.96	<1	6	64	23	1.96	20	0.56	245	1	0.06	3	680	20	5	<20	5	0.07	<10	39	<10	12	29

Et #.	Tag #	Ag	Al %	As	Ba	Bi	Ca %	Cd	Co	Cr	Cu	Fe %	La	Mg %	Mn	Mo	Na %	Ni	P	Pb	Sb	Sn	Sr	Ti %	U	V	W	Y	Zn		
QC DATA:																															
Repeat:																															
1	7R125501	<0.2	1.88	20	55	10	1.19	<1	16	84	16	3.49	30	0.98	342	4	0.02	32	530	26	10	<20	19	0.07	<10	42	<10	10	31		
10	7R125510	<0.2	2.09	35	115	15	0.66	<1	22	104	22	3.56	<10	0.94	413	3	0.05	32	420	32	10	<20	27	0.16	<10	49	<10	3	59		
Resplit:																															
1	7R125501	<0.2	1.74	25	45	5	1.19	<1	17	82	15	3.40	30	0.90	328	2	0.02	33	560	28	5	<20	17	0.06	<10	39	<10	10	36		
Standard:																															
PB129a		11.8	0.81	10	65	<5	0.47	59	7	11	1417	1.63	<10	0.71	351	4	0.02	7	440	6164	20	<20	32	0.04	<10	17	<10	<1	9982		

JJ/nw
dt/8205s
XLS/07


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 Jutta Jealouse
 B.C. Certified Assayer

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ICP CERTIFICATE OF ANALYSIS AK 2008- 8206

Playfair Mining Ltd.

470 Granville St, Suite 520
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V6C 1V5

Phone: 250-573-5700

Fax : 250-573-4557

No. of samples received: 26

Sample Type: Core

Project: Risby Tungston

Shipment #: RT08-48

Submitted by: Mark Nelson

Values in ppm unless otherwise reported

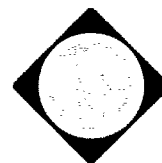
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1	7R125527	<0.2	5.60	100	80	45	4.46	<1	11	74	39	2.00	30	0.69	178	<1	0.41	27	390	138	<5	<20	328	0.10	<10	30	<10	4	56
2	7R125528	<0.2	5.65	110	70	80	4.64	<1	12	67	63	2.06	30	0.53	165	<1	0.39	26	360	132	5	<20	300	0.10	<10	25	<10	3	50
3	7R125529	0.7	5.65	100	160	55	4.25	<1	14	94	69	2.82	20	0.82	215	3	0.35	30	310	134	15	<20	306	0.11	<10	34	<10	2	60
4	7R125530	<0.2	6.00	115	85	45	4.94	<1	12	77	48	1.92	30	0.50	172	<1	0.44	27	460	148	5	<20	325	0.10	<10	25	<10	5	48
5	7R125531	<0.2	5.32	95	80	35	4.34	<1	12	83	60	2.20	30	0.56	212	<1	0.35	25	460	128	5	<20	258	0.10	<10	28	<10	3	53
6	7R125532	<0.2	5.48	95	140	30	3.73	<1	16	98	38	3.05	30	1.12	260	1	0.43	37	370	128	10	<20	255	0.13	<10	50	<10	2	76
7	7R125533	<0.2	5.77	105	130	20	4.12	<1	14	96	29	2.63	30	0.94	224	1	0.46	37	410	140	15	<20	252	0.12	<10	44	<10	6	65
8	7R125534	1.8	1.08	<5	95	870	3.34	2	62	18	4651	>10	<10	1.08	628	13	0.05	107	350	28	<5	<20	83	0.14	<10	9	<10	<1	66
9	7R125535	<0.2	5.46	55	110	10	3.45	<1	15	85	34	2.59	30	0.95	193	<1	0.43	32	550	92	<5	<20	240	0.12	<10	43	<10	5	53
10	7R125536	<0.2	5.79	75	115	25	4.33	<1	11	80	28	2.03	30	0.78	196	<1	0.41	24	480	108	<5	<20	240	0.11	<10	31	<10	1	58
11	7R125537	<0.2	4.29	60	160	15	3.02	<1	15	136	35	2.57	20	0.99	174	2	0.31	34	220	86	<5	<20	177	0.11	<10	42	<10	2	54
12	7R125538	0.2	3.75	50	70	220	2.81	<1	16	97	111	3.03	20	0.72	145	<1	0.29	24	230	68	<5	<20	258	0.08	<10	30	<10	<1	51
13	7R125539	<0.2	5.28	65	100	25	3.91	<1	21	102	185	3.43	30	1.00	216	5	0.37	32	280	96	<5	<20	342	0.11	<10	43	<10	<1	69
14	7R125540	<0.2	5.61	80	55	25	4.43	<1	15	79	78	2.39	30	0.77	194	1	0.39	23	330	104	<5	<20	372	0.09	<10	33	<10	<1	55
15	7R125541	<0.2	4.92	55	55	225	4.35	<1	16	86	94	2.82	30	0.56	207	3	0.36	25	250	92	<5	<20	353	0.07	<10	22	<10	2	47
16	7R125542	<0.2	5.67	60	65	120	4.78	<1	11	77	31	1.74	30	0.65	225	2	0.41	23	340	106	<5	<20	401	0.09	<10	29	<10	2	64
17	7R125543	<0.2	4.80	50	55	100	4.25	<1	8	79	35	1.38	20	0.38	188	2	0.29	17	230	90	<5	<20	305	0.07	<10	18	<10	2	52
18	7R125544	<0.2	5.67	65	5	10	5.95	<1	5	47	21	0.88	30	0.15	288	<1	0.35	12	260	104	<5	<20	359	0.06	<10	8	<10	1	41
19	7R125545	<0.2	5.51	55	80	15	3.83	<1	14	107	29	2.17	40	0.96	139	3	0.50	31	390	102	10	<20	424	0.10	<10	50	<10	4	58
20	7R125546	<0.2	6.52	75	215	35	4.51	<1	14	87	46	2.85	30	1.15	227	3	0.47	29	450	120	10	<20	424	0.12	<10	59	<10	1	74
21	7R125547	<0.2	5.51	60	205	50	3.44	<1	18	104	44	3.56	30	1.50	226	5	0.33	34	380	104	10	<20	317	0.13	<10	61	<10	<1	81
22	7R125548	0.2	6.15	65	160	35	4.07	<1	19	102	136	3.45	30	1.31	203	1	0.48	40	390	112	10	<20	412	0.14	<10	78	<10	2	67
23	7R125549	<0.2	5.52	65	60	10	3.92	<1	16	104	32	2.49	30	1.02	160	2	0.45	32	300	100	<5	<20	414	0.10	<10	49	<10	2	60
24	7R125550	1.9	1.04	<5	85	790	3.44	3	59	19	4677	>10	<10	1.12	640	15	0.06	111	370	30	<5	<20	79	0.15	<10	8	<10	<1	58
25	7R127151	0.2	3.68	30	70	180	3.51	<1	10	103	131	2.22	20	0.49	220	2	0.21	21	220	70	5	<20	233	0.07	<10	20	<10	<1	39
26	7R127152	<0.2	5.27	65	40	20	5.04	<1	6	49	56	1.24	20	0.25	189	<1	0.28	15	310	96	<5	<20	255	0.07	<10	12	<10	<1	32

Et #.	Tag #	Ag	Al %	As	Ba	Bi	Ca %	Cd	Co	Cr	Cu	Fe %	La	Mg %	Mn	Mo	Na %	Ni	P	Pb	Sb	Sn	Sr	Ti %	U	V	W	Y	Zn		
QC DATA:																															
Repeat:																															
1	7R125527	<0.2	5.94	95	75	40	4.26	<1	12	71	41	1.98	30	0.71	182	2	0.43	24	400	130	<5	<20	329	0.11	<10	31	<10	7	49		
10	7R125536	<0.2	5.89	70	120	30	4.38	<1	11	80	29	2.02	30	0.78	198	<1	0.43	24	480	108	<5	<20	243	0.11	<10	31	<10	2	58		
Resplit:																															
1	7R125527	<0.2	6.08	90	70	40	4.75	<1	12	74	37	1.97	30	0.69	182	1	0.45	27	350	132	10	<20	336	0.11	<10	26	<10	<1	50		
Standard:																															
Pb129a		11.8	0.85	25	75	<5	0.50	57	6	12	1437	1.57	<10	0.68	314	4	0.03	6	450	6182	20	<20	37	0.05	<10	16	<10	<1	9915		

JJ/nw
dt/6137s
XLS/07


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GEOCHEMICAL

CERTIFICATE OF ASSAY AK 2008-8206

Playfair Mining Ltd.
470 Granville St, Suite 520
Vancouver, BC
V6C 1V5

24-Sep-08

No. of samples received: 26
Sample Type: Core
Submitted by: Micheal Moore

ET #.	Tag #	W %
1	7R125527	0.010
2	7R125528	0.024
3	7R125529	0.031
4	7R125530	0.002
5	7R125531	0.035
6	7R125532	0.012
7	7R125533	0.002
8	7R125534	1.041
9	7R125535	0.008
10	7R125536	0.012
11	7R125537	<0.001
12	7R125538	0.025
13	7R125539	0.042
14	7R125540	0.049
15	7R125541	0.016
16	7R125542	0.024
17	7R125543	0.044
18	7R125544	0.022
19	7R125545	<0.001
20	7R125546	0.013
21	7R125547	0.038
22	7R125548	0.021
23	7R125549	<0.001
24	7R125550	1.040
25	7R127151	0.003
26	7R127152	0.057


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GEOCHEMICAL

Playfair Mining Ltd. AW8-8206

24-Sep-08

ET #.	Tag #	W %
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QC DATA:

Repeat:

1	7R125527	0.010
10	7R125536	0.012
19	7R125545	<0.001

Resplit:

1	7R125527	0.013
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Standard:

TLG-1	0.083
MP2	0.667
CT1	1.036

JJ/nw
XLS/07


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CERTIFICATE OF ASSAY AW 2008-8506

Playfair Mining Ltd.
470 Granville St, Suite 520
Vancouver, BC
V6C 1V5

14-Nov-08

No. of samples received: 64
Sample Type: Core
Project: Risby
Shipment #: RT08-51
Submitted by: Mark Nelson

ET #.	Tag #	W ppm
1	7R127214	<0.001
2	7R127215	0.043
3	7R127216	0.026
4	7R127217	0.006
5	7R127218	0.041
6	7R127219	<0.001
7	7R127220	<0.001
8	7R127221	0.009
9	7R127222	<0.001
10	7R127223	0.010
11	7R127224	0.018
12	7R127225	1.042
13	7R127226	0.141
14	7R127227	0.019
15	7R127228	0.008
16	7R127229	<0.001
17	7R127230	<0.001
18	7R127231	0.144
19	7R127232	<0.001
20	7R127233	<0.001
21	7R127234	<0.001
22	7R127235	0.010
23	7R127236	0.093
24	7R127237	0.001
25	7R127238	0.001
26	7R127239	0.014
27	7R127240	0.007
28	7R127241	1.051
29	7R127242	0.017
30	7R127243	0.007
31	7R127244	0.019
32	7R127245	0.035
33	7R127246	0.007

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B.C. Certified Assayer



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Stewart
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Playfair Mining Ltd. AW8-8506

14-Nov-08

ET #.	Tag #	W ppm
34	7R127247	<0.001
35	7R127248	0.045
36	7R127249	0.093
37	7R127250	1.028
38	7R127251	0.054
39	7R127252	0.002
40	7R127253	0.001
41	7R127254	0.354
42	7R127255	1.090
43	7R127256	1.526
44	7R127257	1.048
45	7R127258	0.361
46	7R127259	0.034
47	7R127260	0.009
48	7R127261	0.017
49	7R127262	0.004
50	7R127263	0.021
51	7R127264	0.011
52	7R127265	0.001
53	7R127266	<0.001
54	7R127267	0.001
55	7R127268	0.003
56	7R127269	0.442
57	7R127270	0.006
58	7R127271	0.124
59	7R127272	0.005
60	7R127273	0.022
61	7R127274	1.042
62	7R127275	0.011
63	7R127276	0.001
64	7R127277	0.001

QC DATA:

Repeat:

1	7R127214	<0.001
10	7R127223	0.011
19	7R127232	<0.001
32	7R127245	0.034
41	7R127254	0.360
50	7R127263	0.023
63	7R127276	0.001

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Playfair Mining Ltd. AW8-8506

14-Nov-08

ET #.	Tag #	W ppm
Resplit:		
1	7R127214	<0.001
36	7R127249	0.090
Standard:		
TLG1		0.084
TLG1		0.085
CT-1		1.043
CT-1		1.036

JJ/JK
XLS/07


ECO TECH LABORATORY LTD.
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30-Oct-08

Alex Stewart Geochemical
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10041 Dallas Drive
KAMLOOPS, B.C.
V2C 6T4

ICP CERTIFICATE OF ANALYSIS AK 2008- 8506

Playfair Mining Ltd.
470 Granville St, Suite 520
Vancouver, BC
V6C 1V5

Phone: 250-573-5700
Fax : 250-573-4557

No. of samples received: 64
Sample Type: Core
Project: Risby
Shipment #: RT08-51
Submitted by: Mark Nelson

Values in ppm unless otherwise reported

Et #.	Tag #	Ag	Al %	As	Ba	Bi	Ca %	Cd	Co	Cr	Cu	Fe %	La	Mg %	Mn	Mo	Na %	Ni	P	Pb	Sb	Sn	Sr	Ti %	U	V	W	Y	Zn
1	7R127214	<0.2	2.61	10	150	20	0.36	<1	23	113	61	5.64	<10	1.06	308	2	0.03	39	340	36	<5	<20	5	0.16	<10	47	<10	<1	97
2	7R127215	<0.2	3.25	20	80	25	>10	<1	12	63	162	3.36	10	0.57	462	5	0.11	27	570	38	<5	<20	1173	0.07	<10	62	<10	<1	61
3	7R127216	<0.2	3.27	10	105	50	2.41	<1	20	106	54	4.17	10	0.79	302	3	0.14	46	550	40	<5	<20	174	0.10	<10	115	<10	1	65
4	7R127217	<0.2	4.79	25	145	155	2.92	<1	15	108	52	3.67	30	1.04	314	36	0.25	38	530	54	5	<20	161	0.07	<10	67	<10	4	75
5	7R127218	<0.2	6.05	40	180	15	3.13	<1	18	105	46	4.21	20	1.33	274	2	0.36	38	450	66	<5	<20	218	0.11	<10	59	<10	3	83
6	7R127219	<0.2	5.14	25	150	15	3.45	<1	22	108	57	4.71	20	1.20	299	1	0.29	38	430	56	<5	<20	211	0.11	<10	49	<10	2	78
7	7R127220	<0.2	6.74	45	50	20	5.41	<1	10	76	17	1.99	30	0.68	236	<1	0.45	22	470	72	<5	<20	317	0.08	<10	34	<10	4	60
8	7R127221	<0.2	6.81	50	95	45	4.62	<1	13	89	39	2.74	20	0.91	228	<1	0.44	31	580	70	10	<20	311	0.09	<10	42	<10	<1	64
9	7R127222	<0.2	4.84	35	90	10	3.12	<1	13	87	35	3.24	20	1.05	309	<1	0.34	28	460	52	<5	<20	289	0.11	<10	51	<10	2	65
10	7R127223	<0.2	5.93	30	115	35	3.44	<1	19	96	71	4.40	30	1.37	289	3	0.39	40	430	62	5	<20	264	0.11	<10	63	<10	3	87
11	7R127224	<0.2	5.45	30	75	20	3.38	<1	16	96	37	3.70	30	1.09	296	2	0.39	36	530	58	5	<20	236	0.10	<10	55	<10	4	65
12	7R127225	2.1	1.08	<5	125	830	3.43	4	69	12	4683	>10	<10	0.97	630	11	0.05	112	320	22	<5	<20	87	0.12	<10	8	<10	<1	65
13	7R127226	<0.2	6.64	35	100	20	4.23	<1	15	73	81	3.62	20	0.75	296	3	0.36	28	410	70	<5	<20	338	0.09	<10	38	<10	2	60
14	7R127227	<0.2	5.87	35	80	25	3.36	<1	18	105	42	4.00	30	1.20	273	1	0.40	39	440	60	5	<20	300	0.11	<10	61	<10	3	65
15	7R127228	<0.2	5.99	30	120	25	3.37	<1	18	95	47	3.75	20	1.11	227	<1	0.34	38	490	62	<5	<20	249	0.12	<10	57	<10	2	94
16	7R127229	<0.2	4.63	25	140	<5	2.83	<1	18	101	45	4.37	20	1.49	348	3	0.21	40	420	50	5	<20	171	0.10	<10	70	<10	2	121
17	7R127230	<0.2	3.97	20	145	10	2.38	<1	16	101	55	3.99	10	1.24	297	3	0.18	36	410	46	5	<20	177	0.09	<10	72	<10	2	75
18	7R127231	<0.2	2.63	20	100	25	1.94	<1	9	138	47	2.53	<10	0.53	210	3	0.16	34	250	32	<5	<20	125	0.06	<10	32	<10	<1	49
19	7R127232	<0.2	5.07	30	180	10	2.34	<1	19	106	58	4.63	<10	1.36	249	3	0.23	41	470	58	5	<20	208	0.11	<10	90	<10	<1	123
20	7R127233	<0.2	4.71	25	175	10	1.95	<1	19	117	57	5.15	<10	1.60	270	4	0.25	43	490	56	<5	<20	161	0.13	<10	121	<10	<1	133
21	7R127234	<0.2	6.02	35	155	10	3.20	<1	24	83	89	5.01	10	1.44	306	2	0.27	46	440	68	<5	<20	291	0.12	<10	98	<10	1	121
22	7R127235	<0.2	6.26	40	205	20	3.49	<1	16	103	49	4.12	30	1.30	282	1	0.36	37	390	68	<5	<20	319	0.12	<10	75	<10	2	101
23	7R127236	<0.2	5.73	35	175	25	3.21	<1	16	85	41	3.98	20	1.23	263	3	0.35	35	420	62	5	<20	299	0.10	<10	69	<10	3	91
24	7R127237	<0.2	5.83	35	205	20	3.02	<1	17	97	35	4.54	20	1.46	333	1	0.35	37	430	60	<5	<20	325	0.13	<10	87	<10	3	97
25	7R127238	0.2	4.29	15	120	275	3.86	<1	18	76	83	4.16	20	1.09	496	4	0.22	56	370	48	<5	<20	295	0.08	<10	60	<10	4	89

Et #.	Tag #	Ag	Al %	As	Ba	Bi	Ca %	Cd	Co	Cr	Cu	Fe %	La	Mg %	Mn	Mo	Na %	Ni	P	Pb	Sb	Sn	Sr	Ti %	U	V	W	Y	Zn
26	7R127239	0.2	2.13	10	65	165	3.03	<1	8	94	18	3.17	10	0.84	553	2	0.04	20	270	24	<5	<20	74	0.04	<10	38	<10	2	80
27	7R127240	<0.2	4.77	30	45	75	5.28	<1	11	58	27	3.30	30	1.03	871	1	0.22	23	350	48	<5	<20	312	0.06	<10	48	<10	2	103
28	7R127241	1.9	1.10	<5	125	865	3.45	3	70	13	4634	>10	<10	0.99	643	13	0.05	113	340	24	<5	<20	89	0.12	<10	9	<10	<1	63
29	7R127242	<0.2	5.05	25	25	20	8.97	<1	8	37	33	3.56	20	0.83	1568	<1	0.17	15	260	44	<5	<20	383	0.05	<10	25	<10	2	84
30	7R127243	<0.2	5.08	30	10	10	6.28	<1	5	32	21	2.14	20	0.49	1025	<1	0.25	13	340	48	<5	<20	323	0.05	<10	18	<10	1	58
31	7R127244	<0.2	5.73	40	35	10	4.83	<1	7	63	19	2.06	30	0.62	565	1	0.37	17	370	56	5	<20	464	0.06	<10	27	<10	2	61
32	7R127245	<0.2	5.97	45	50	30	4.45	<1	8	56	42	1.65	30	0.38	162	1	0.36	20	350	62	<5	<20	475	0.06	<10	25	<10	2	52
33	7R127246	<0.2	6.31	35	135	55	4.08	<1	21	75	120	4.29	20	0.91	307	2	0.35	38	340	64	5	<20	466	0.09	<10	45	<10	1	72
34	7R127247	<0.2	1.61	10	115	15	1.10	<1	9	74	25	3.13	20	0.80	451	1	0.12	4	730	20	<5	<20	20	0.14	<10	65	<10	7	56
35	7R127248	<0.2	2.27	<5	70	50	7.35	<1	17	58	350	8.63	<10	1.54	1268	3	0.04	18	760	24	<5	<20	82	0.07	<10	64	<10	<1	49
36	7R127249	<0.2	2.77	15	110	35	>10	<1	4	46	40	3.02	<10	1.51	1510	2	0.11	8	2240	26	10	<20	428	0.05	<10	61	<10	<1	43
37	7R127250	0.7	3.84	<5	80	375	4.62	<1	18	45	824	9.99	<10	1.13	990	4	0.11	24	440	38	<5	<20	210	0.06	<10	60	<10	<1	101
38	7R127251	0.3	1.30	2510	35	75	8.92	<1	12	47	125	5.26	<10	0.87	1540	10	0.01	44	1280	26	<5	<20	189	0.03	<10	124	<10	6	117
39	7R127252	<0.2	0.78	5	45	<5	1.41	<1	16	60	83	3.69	<10	0.31	111	19	<0.01	65	210	18	<5	<20	36	0.01	<10	29	<10	2	51
40	7R127253	<0.2	1.04	<5	60	<5	2.42	<1	15	64	70	3.72	<10	0.41	202	24	<0.01	70	550	20	<5	<20	41	0.02	<10	81	<10	5	66
41	7R127254	<0.2	5.46	<5	80	215	4.75	1	18	70	328	9.93	<10	1.24	1114	9	0.29	35	500	50	<5	<20	263	0.09	<10	115	<10	<1	121
42	7R127255	1.2	5.06	<5	95	510	1.27	2	31	67	1375	>10	<10	2.40	938	5	0.06	29	350	50	<5	<20	53	0.17	<10	91	<10	<1	173
43	7R127256	0.8	4.30	<5	90	250	1.97	2	30	67	1380	>10	<10	1.88	904	7	0.06	31	590	48	<5	<20	54	0.15	<10	96	<10	<1	157
44	7R127257	1.9	1.09	<5	120	875	3.31	3	68	13	4608	>10	<10	0.99	641	10	0.05	112	350	22	<5	<20	84	0.13	<10	9	<10	<1	64
45	7R127258	<0.2	5.88	<5	85	50	4.33	<1	15	54	304	9.89	<10	1.26	848	7	0.18	21	530	52	<5	<20	258	0.06	<10	69	<10	<1	132
46	7R127259	<0.2	7.10	50	60	10	5.04	<1	11	69	64	2.68	30	0.69	212	3	0.50	24	530	78	10	<20	412	0.09	<10	33	<10	3	55
47	7R127260	<0.2	5.62	40	45	5	3.64	<1	14	81	54	3.30	30	0.91	214	2	0.42	26	630	60	<5	<20	342	0.08	<10	40	<10	3	78
48	7R127261	<0.2	5.14	35	70	15	3.92	<1	11	88	52	3.12	30	0.83	269	3	0.46	25	3140	54	<5	<20	241	0.07	<10	42	<10	3	64
49	7R127262	<0.2	5.82	45	50	5	3.83	<1	12	76	30	2.42	30	0.73	159	1	0.50	26	540	62	10	<20	348	0.09	<10	40	<10	3	75
50	7R127263	<0.2	6.67	55	55	35	5.06	<1	6	48	35	1.56	30	0.38	195	<1	0.35	13	490	74	5	<20	437	0.07	<10	19	<10	3	97
51	7R127264	<0.2	6.11	40	70	10	3.87	<1	15	85	46	3.27	30	0.94	207	6	0.49	34	880	64	<5	<20	268	0.11	<10	49	<10	3	68
52	7R127265	<0.2	5.96	35	150	10	3.37	<1	17	94	28	4.19	30	1.42	294	1	0.36	34	470	62	<5	<20	202	0.13	<10	64	<10	2	70
53	7R127266	<0.2	6.15	25	275	20	2.50	<1	21	120	38	5.20	<10	1.73	381	2	0.36	43	380	66	10	<20	180	0.18	<10	83	<10	<1	68
54	7R127267	<0.2	5.30	35	180	15	3.08	<1	16	95	51	3.77	20	1.34	275	3	0.28	35	1380	58	5	<20	183	0.14	<10	74	<10	<1	57
55	7R127268	<0.2	1.23	<5	90	25	2.94	<1	6	112	46	2.59	<10	0.30	213	30	0.10	10	>1000	18	<5	<20	60	0.03	<10	17	<10	2	17
56	7R127269	0.4	3.75	<5	90	165	3.23	2	40	51	583	>10	<10	0.45	311	18	0.19	47	5430	44	<5	<20	115	0.09	<10	30	<10	<1	51
57	7R127270	<0.2	0.79	145	40	10	7.87	<1	13	52	70	3.90	<10	0.74	1079	17	<0.01	63	630	14	<5	<20	175	0.02	<10	137	<10	6	68
58	7R127271	0.2	6.01	35	30	100	5.15	<1	10	41	281	5.00	10	0.24	336	2	0.21	13	2480	64	<5	<20	288	0.04	<10	14	<10	<1	47
59	7R127272	<0.2	6.18	50	20	5	5.22	<1	5	40	35	1.45	20	0.15	199	<1	0.19	9	860	70	<5	<20	348	0.05	<10	14	<10	2	57
60	7R127273	<0.2	6.00	50	70	15	5.06	<1	6	47	27	1.90	20	0.35	307	2	0.22	18	2020	68	<5	<20	294	0.06	<10	24	<10	3	58
61	7R127274	1.9	1.09	<5	120	855	3.41	4	71	12	4603	>10	<10	1.02	642	10	0.05	113	330	26	<5	<20	86	0.12	<10	9	<10	<1	63
62	7R127275	<0.2	4.94	30	40	10	4.48	<1	9	34	96	3.32	20	0.20	279	2	0.14	12	2300	54	<5	<20	239	0.05	<10	13	<10	2	53
63	7R127276	<0.2	0.34	<5	10	<5	0.47	<1	<1	68	2	0.53	<10	0.03	81	<1	0.05	1	600	14	<5	<20	12	<0.01	<10	1	<10	3	11
64	7R127277	<0.2	0.30	<5	<5	<5	0.53	<1	<1	66	3	0.53	<10	0.02	91	2	0.03	2	320	18	<5	<20	9	<0.01	<10	<1	<10	1	12

Et #.	Tag #	Ag	Al %	As	Ba	Bi	Ca %	Cd	Co	Cr	Cu	Fe %	La	Mg %	Mn	Mo	Na %	Ni	P	Pb	Sb	Sn	Sr	Ti %	U	V	W	Y	Zn		
QC DATA:																															
Repeat:																															
1	7R127214	<0.2	2.68	5	145	15	0.38	<1	24	112	63	5.75	<10	1.09	311	2	0.03	39	330	34	<5	<20	5	0.16	<10	48	<10	<1	100		
10	7R127223	<0.2	5.91	35	115	30	3.40	<1	18	94	70	4.35	30	1.36	285	1	0.38	38	410	60	<5	<20	266	0.11	<10	62	<10	3	87		
19	7R127232	<0.2	5.08	25	160	10	2.34	<1	19	105	58	4.66	<10	1.37	250	3	0.23	42	480	56	<5	<20	206	0.11	<10	90	<10	<1	124		
36	7R127249	0.2	2.90	10	105	35	>10	<1	4	48	42	3.14	<10	1.59	1554	1	0.12	9	2210	30	5	<20	444	0.05	<10	63	<10	<1	45		
45	7R127258	<0.2	6.05	<5	85	55	4.36	<1	15	55	312	>10	<10	1.29	863	6	0.19	22	550	56	<5	<20	263	0.06	<10	71	<10	<1	137		
54	7R127267	<0.2	5.33	30	185	10	3.12	<1	17	100	50	3.79	20	1.33	276	4	0.29	36	1380	60	15	<20	182	0.14	<10	74	<10	2	58		
Resplit:																															
1	7R127214	<0.2	2.75	5	145	15	0.40	<1	25	113	63	5.86	<10	1.11	321	2	0.03	42	370	34	<5	<20	4	0.16	<10	48	<10	<1	100		
36	7R127249	<0.2	2.82	20	115	25	>10	<1	5	48	42	3.20	<10	1.57	1545	2	0.11	10	2170	30	10	<20	439	0.05	<10	62	<10	<1	45		
Standard:																															
Pb129a		11.9	0.86	5	65	<5	0.49	56	6	10	1420	1.63	<10	0.66	353	3	0.03	4	430	6224	20	<20	31	0.04	<10	19	<10	<1	>10000		
Pb129a		11.8	0.83	10	70	<5	0.47	58	6	10	1438	1.59	<10	0.68	365	4	0.03	5	410	6172	20	<20	32	0.03	<10	20	<10	<1	>10000		

JJ/nw
dt/8506s
XLS/07


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CERTIFICATE OF ASSAY AW 2008-8468

Playfair Mining Ltd.
470 Granville St, Suite 520
Vancouver, BC
V6C 1V5

14-Nov-08

No. of samples received: 61
Sample Type: Rock
Shipment #: RT08-50
Submitted by: Mark Nelson

ET #.	Tag #	W ppm
1	7R127153	<0.001
2	7R127154	0.086
3	7R127155	0.069
4	7R127156	<0.001
5	7R127157	<0.001
6	7R127158	<0.001
7	7R127159	<0.001
8	7R127160	0.012
9	7R127161	0.009
10	7R127162	1.039
11	7R127163	0.006
12	7R127164	0.006
13	7R127165	0.036
14	7R127166	0.034
15	7R127167	0.027
16	7R127168	0.051
17	7R127169	0.003
18	7R127170	0.024
19	7R127171	0.001
20	7R127172	<0.001
21	7R127173	<0.001
22	7R127174	<0.001
23	7R127175	0.015
24	7R127176	0.014
25	7R127177	0.017
26	7R127178	1.049
27	7R127179	0.076
28	7R127180	0.136
29	7R127181	<0.001
30	7R127182	0.001
31	7R127183	<0.001
32	7R127184	<0.001
33	7R127185	<0.001


ECO TECH LABORATORY LTD.
Jutta Jealous
B.C. Certified Assayer



Alex
Stewart
GEOCHEMICAL

Playfair Mining Ltd. AW8-8468

14-Nov-08

ET #.	Tag #	W ppm
34	7R127186	<0.001
35	7R127187	<0.001
36	7R127188	0.020
37	7R127189	0.423
38	7R127190	0.246
39	7R127191	0.098
40	7R127192	0.074
41	7R127193	0.006
42	7R127194	1.051
43	7R127195	0.185
44	7R127196	0.002
45	7R127197	<0.001
46	7R127198	<0.001
47	7R127199	<0.001
48	7R127200	0.100
49	7R127201	0.049
50	7R127202	0.094
51	7R127203	0.097
52	7R127204	0.186
53	7R127205	0.649
54	7R127206	0.456
55	7R127207	0.817
56	7R127208	0.004
57	7R127209	0.002
58	7R127210	1.047
59	7R127211	0.006
60	7R127212	0.015
61	7R127213	<0.001

QC DATA:

Repeat:

1	7R127153	<0.001
2	7R127154	0.088
11	7R127163	0.005
19	7R127171	0.002
32	7R127184	<0.001
37	7R127189	0.418
38	7R127190	0.242
41	7R127193	0.007
50	7R127202	0.092
55	7R127207	0.815

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B.C. Certified Assayer



Alex
Stewart
GEOCHEMICAL

Playfair Mining Ltd. AW8-8468

14-Nov-08

ET #.	Tag #	W ppm
Resplit:		
1	7R127153	<0.001
36	7R127188	0.016
Standard:		
TLG1		0.083
TLG1		0.081
MP2		0.655
CT-1		1.031
CT-1		1.036

JJ/JK
XLS/07


ECO TECH LABORATORY LTD.
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6-Nov-08
Alex Stewart Geochemical
ECO TECH LABORATORY LTD.
 10041 Dallas Drive
KAMLOOPS, B.C.
 V2C 6T4

ICP CERTIFICATE OF ANALYSIS AK 2008- 8468

Playfair Mining Ltd.
 470 Granville St, Suite 520
Vancouver, BC
 V6C 1V5

Phone: 250-573-5700
 Fax : 250-573-4557

No. of samples received: 61
Sample Type: Rock
Shipment #: RT08-50
Submitted by: Mark Nelson

Values in ppm unless otherwise reported

Et #.	Tag #	Ag	Al %	As	Ba	Bi	Ca %	Cd	Co	Cr	Cu	Fe %	La	Mg %	Mn	Mo	Na %	Ni	P	Pb	Sb	Sn	Sr	Ti %	U	V	W	Y	Zn
1	7R127153	<0.2	5.32	50	120	5	3.24	2	16	94	37	3.18	30	1.11	256	15	0.34	41	370	94	25	<20	516	0.08	<10	105	<10	5	54
2	7R127154	<0.2	3.28	40	95	20	7.89	4	18	66	107	3.79	20	0.84	456	23	0.17	44	550	56	35	<20	509	0.05	<10	83	<10	<1	59
3	7R127155	<0.2	4.20	35	80	55	3.42	1	25	69	155	4.47	20	0.69	288	12	0.16	48	400	78	15	<20	196	0.10	<10	70	<10	3	50
4	7R127156	0.2	2.62	20	135	15	0.29	1	23	79	46	4.44	<10	1.02	418	7	0.03	40	390	46	10	<20	45	0.17	<10	52	<10	<1	92
5	7R127157	<0.2	2.45	25	145	5	0.38	4	23	92	117	4.27	10	1.00	421	16	0.03	46	430	40	30	<20	12	0.10	<10	54	<10	<1	91
6	7R127158	<0.2	2.43	15	140	15	0.55	2	23	100	165	4.02	10	0.92	404	7	0.04	40	500	38	15	<20	8	0.16	<10	52	<10	<1	69
7	7R127159	<0.2	5.26	50	45	70	4.39	2	14	82	33	2.28	30	0.95	324	15	0.30	38	410	82	30	<20	246	0.09	<10	43	<10	2	62
8	7R127160	<0.2	6.42	65	45	50	4.51	<1	12	74	45	1.96	30	0.72	261	17	0.40	31	420	104	30	<20	292	0.08	<10	38	<10	2	57
9	7R127161	<0.2	7.28	85	60	45	5.24	1	12	64	45	2.03	30	0.66	321	27	0.35	31	500	116	45	<20	310	0.06	<10	38	<10	3	74
10	7R127162	1.9	1.02	<5	115	820	3.26	4	63	15	4583	>10	10	1.00	639	17	0.04	120	340	10	5	<20	80	0.14	<10	12	<10	<1	66
11	7R127163	<0.2	6.03	65	55	40	4.48	<1	11	72	44	1.67	20	0.45	216	8	0.35	23	600	106	10	<20	241	0.10	<10	28	<10	4	51
12	7R127164	<0.2	5.51	65	90	20	3.83	<1	13	77	29	2.31	30	0.95	212	14	0.29	31	360	90	20	<20	256	0.10	<10	62	<10	2	62
13	7R127165	<0.2	5.54	60	80	20	3.88	<1	12	80	23	2.30	30	1.06	395	11	0.30	28	350	90	20	<20	274	0.10	<10	53	<10	4	74
14	7R127166	<0.2	4.43	55	55	85	3.27	<1	14	73	55	2.04	20	0.56	249	14	0.21	26	290	76	<5	<20	206	0.09	<10	30	<10	2	47
15	7R127167	<0.2	5.92	70	50	15	4.28	<1	11	73	56	1.78	30	0.66	296	11	0.33	24	390	102	5	<20	289	0.11	<10	38	<10	5	57
16	7R127168	<0.2	5.31	45	25	45	4.19	<1	9	50	27	1.32	30	0.36	248	4	0.27	20	300	92	5	<20	269	0.08	<10	24	<10	3	55
17	7R127169	<0.2	6.06	85	70	20	3.95	<1	11	76	21	1.82	30	0.72	207	8	0.33	23	390	106	15	<20	295	0.10	<10	44	<10	4	56
18	7R127170	<0.2	4.80	55	10	10	3.84	<1	5	39	8	0.96	30	0.28	290	18	0.27	15	300	76	25	<20	258	0.03	<10	21	<10	2	37
19	7R127171	<0.2	5.94	65	110	5	3.73	3	19	87	57	3.44	40	1.45	462	14	0.33	50	440	96	25	<20	331	0.06	<10	75	<10	5	90
20	7R127172	<0.2	2.44	30	175	10	0.59	<1	16	115	20	3.27	10	1.22	245	2	0.07	30	240	44	5	<20	41	0.13	<10	48	<10	<1	79
21	7R127173	<0.2	4.35	30	245	15	1.46	<1	21	100	30	4.10	10	1.56	289	8	0.15	42	380	78	15	<20	129	0.16	<10	71	<10	<1	93
22	7R127174	<0.2	2.22	40	65	<5	>10	3	12	35	23	2.61	20	0.82	829	16	0.04	42	740	30	30	<20	194	<0.01	<10	68	<10	<1	104
23	7R127175	<0.2	2.69	35	65	15	9.43	2	12	44	26	3.54	20	1.47	1705	13	0.05	38	1940	38	25	<20	140	0.03	<10	59	<10	3	139
24	7R127176	<0.2	3.66	45	100	15	7.99	<1	11	44	28	2.39	20	1.09	864	6	0.14	29	780	64	10	<20	171	0.04	<10	58	<10	5	127
25	7R127177	<0.2	3.48	30	80	10	9.54	<1	11	39	39	1.98	20	0.80	796	5	0.14	27	590	52	5	<20	207	0.05	<10	45	<10	2	101

Et #.	Tag #	Ag	Al %	As	Ba	Bi	Ca %	Cd	Co	Cr	Cu	Fe %	La	Mg %	Mn	Mo	Na %	Ni	P	Pb	Sb	Sn	Sr	Ti %	U	V	W	Y	Zn
26	7R127178	1.9	1.05	<5	115	860	3.38	4	73	15	4617	>10	10	1.02	655	14	0.05	319	340	22	5	<20	81	0.14	<10	10	<10	<1	58
27	7R127179	0.4	3.69	30	75	20	6.44	<1	23	48	376	5.73	10	1.36	1166	7	0.12	43	1010	58	<5	<20	166	0.07	<10	67	<10	<1	142
28	7R127180	0.2	1.58	40	70	20	6.63	<1	14	37	59	2.88	10	0.47	1322	17	0.04	51	920	26	10	<20	86	0.02	<10	75	<10	6	97
29	7R127181	0.2	0.72	65	50	15	2.27	<1	18	43	74	3.92	<10	0.49	408	23	<0.01	80	1000	16	<5	<20	58	0.02	<10	34	<10	5	57
30	7R127182	0.2	0.76	45	55	10	1.45	2	24	34	78	4.32	<10	0.47	416	16	<0.01	63	450	16	10	<20	37	0.02	<10	27	<10	3	36
31	7R127183	0.2	1.14	10	70	15	1.07	1	21	55	41	4.93	<10	0.87	486	4	0.01	48	360	22	<5	<20	43	0.03	<10	26	<10	1	58
32	7R127184	<0.2	2.11	15	75	15	0.42	1	24	67	35	5.41	<10	1.05	392	4	<0.01	48	300	40	<5	<20	21	0.05	<10	41	<10	<1	64
33	7R127185	<0.2	2.70	25	100	20	0.54	2	24	82	41	5.50	<10	1.25	401	7	<0.01	55	310	52	10	<20	25	0.10	<10	56	<10	<1	65
34	7R127186	<0.2	2.59	15	100	30	0.58	1	22	86	30	5.11	<10	1.12	385	5	<0.01	46	270	52	10	<20	18	0.12	<10	52	<10	<1	68
35	7R127187	<0.2	1.55	20	65	10	1.76	<1	22	63	65	3.75	<10	0.75	153	38	0.03	109	560	26	<5	<20	35	0.07	<10	193	<10	3	41
36	7R127188	<0.2	2.99	45	75	10	3.76	<1	14	64	58	3.41	10	1.05	514	26	0.07	66	1220	56	5	<20	92	0.05	<10	192	<10	5	56
37	7R127189	<0.2	3.74	40	40	70	4.07	<1	7	24	28	1.66	<10	0.23	680	12	0.13	18	370	64	10	<20	151	0.03	<10	12	<10	1	43
38	7R127190	<0.2	5.73	70	60	15	4.76	<1	7	23	44	1.76	10	0.27	559	10	0.16	13	400	106	10	<20	258	0.04	<10	12	<10	2	48
39	7R127191	0.2	2.98	30	55	25	2.83	<1	17	76	110	3.38	10	0.48	450	3	0.21	20	2010	54	<5	<20	115	0.05	<10	21	<10	5	30
40	7R127192	<0.2	5.68	65	60	<5	4.26	<1	13	67	89	2.87	20	0.47	266	3	0.35	16	710	102	<5	<20	237	0.07	<10	25	<10	4	35
41	7R127193	<0.2	4.02	50	60	10	2.85	<1	6	72	25	1.30	10	0.38	151	3	0.27	9	860	74	<5	<20	176	0.06	<10	18	<10	6	29
42	7R127194	2.0	1.03	<5	125	840	3.23	5	75	16	4575	>10	<10	0.99	646	12	0.05	110	350	20	<5	<20	83	0.13	<10	9	<10	<1	58
43	7R127195	<0.2	6.01	70	115	10	3.49	<1	14	79	79	3.37	20	1.18	352	10	0.30	24	800	110	15	<20	200	0.11	<10	57	<10	4	70
44	7R127196	<0.2	5.53	60	200	65	2.49	<1	20	109	43	3.77	20	1.62	383	6	0.28	36	780	102	10	<20	195	0.22	<10	96	<10	2	64
45	7R127197	0.2	4.76	60	175	20	2.56	<1	16	101	37	2.89	30	1.08	275	4	0.33	31	620	84	5	<20	166	0.19	<10	63	<10	6	51
46	7R127198	<0.2	6.22	70	245	25	3.15	<1	19	97	34	3.52	20	1.67	360	8	0.34	37	1250	112	15	<20	202	0.25	<10	102	<10	5	67
47	7R127199	<0.2	3.57	45	85	15	2.33	<1	21	83	80	3.12	20	1.22	191	11	0.22	57	2410	66	5	<20	117	0.13	<10	109	<10	5	31
48	7R127200	<0.2	4.70	50	70	15	4.59	<1	7	52	29	1.44	20	0.57	328	6	0.20	16	870	84	<5	<20	213	0.11	<10	56	<10	4	74
49	7R127201	<0.2	5.58	65	30	20	4.86	<1	7	34	35	1.50	20	0.23	293	6	0.24	12	410	104	5	<20	273	0.07	<10	23	<10	4	62
50	7R127202	0.2	5.36	50	50	20	3.54	<1	17	68	103	3.77	20	0.84	368	7	0.25	31	550	90	5	<20	220	0.12	<10	56	<10	<1	72
51	7R127203	<0.2	3.57	35	30	50	4.26	<1	12	27	109	2.99	10	0.14	527	3	0.11	13	410	64	<5	<20	73	0.08	<10	16	<10	3	76
52	7R127204	<0.2	4.57	45	70	15	4.62	<1	10	43	86	2.51	10	0.33	452	6	0.18	14	660	76	<5	<20	218	0.08	<10	28	<10	2	72
53	7R127205	0.4	3.30	<5	70	35	1.85	2	30	49	341	8.93	<10	0.50	363	8	0.18	24	350	52	<5	<20	52	0.08	<10	21	<10	<1	49
54	7R127206	0.2	3.24	25	35	55	3.38	<1	9	33	140	2.85	10	0.29	646	5	0.14	6	270	54	<5	<20	49	0.05	<10	11	<10	<1	57
55	7R127207	0.9	1.88	<5	60	305	1.88	3	26	71	503	7.89	<10	0.35	290	10	0.07	25	1870	34	5	<20	46	0.04	<10	15	<10	1	48
56	7R127208	<0.2	0.38	15	25	5	0.87	<1	1	67	8	0.65	<10	0.05	114	2	0.03	2	520	20	<5	<20	38	<0.01	<10	<1	<10	5	22
57	7R127209	<0.2	0.37	15	20	<5	1.07	<1	1	79	5	0.60	<10	0.05	113	8	0.03	<1	590	14	<5	<20	39	0.01	<10	<1	<10	5	18
58	7R127210	1.9	1.02	<5	125	875	3.32	7	71	16	4597	>10	<10	1.05	653	15	0.04	115	370	26	<5	<20	81	0.13	<10	9	<10	<1	58
59	7R127211	<0.2	0.46	15	25	10	0.71	<1	2	71	30	0.88	<10	0.09	120	20	0.03	3	410	12	<5	<20	37	0.02	<10	2	<10	4	22
60	7R127212	<0.2	0.42	15	25	25	0.64	<1	2	82	18	0.69	<10	0.06	83	11	0.03	2	380	10	<5	<20	38	0.01	<10	1	<10	3	12
61	7R127213	<0.2	0.44	20	25	5	0.45	<1	2	75	11	0.82	<10	0.09	103	3	0.03	3	280	10	<5	<20	27	0.02	<10	2	<10	3	21

QC DATA:**Repeat:**

1	7R127153	<0.2	5.37	40	125	10	3.24	1	16	94	37	3.17	30	1.12	258	16	0.35	41	370	88	25	<20	523	0.08	<10	105	<10	4	54
11	7R127163	<0.2	6.15	65	60	50	4.52	<1	11	73	38	1.63	20	0.45	217	5	0.35	23	610	108	10	<20	250	0.10	<10	27	<10	6	51
19	7R127171	<0.2	5.82	70	105	5	3.68	1	19	87	63	3.45	30	1.39	462	12	0.32	43	440	100	20	<20	329	0.08	<10	69	<10	5	89

Et #.	Tag #	Ag	Al %	As	Ba	Bi	Ca %	Cd	Co	Cr	Cu	Fe %	La	Mg %	Mn	Mo	Na %	Ni	P	Pb	Sb	Sn	Sr	Ti %	U	V	W	Y	Zn
36	7R127188	<0.2	3.07	45	80	15	3.77	<1	15	65	59	3.43	10	1.07	517	26	0.07	66	1230	56	10	<20	96	0.06	<10	194	<10	6	58
45	7R127197	<0.2	4.79	60	170	15	2.59	<1	16	99	39	2.90	30	1.07	273	8	0.33	33	620	88	10	<20	167	0.17	<10	62	<10	7	52
54	7R127206	<0.2	3.19	15	35	55	3.40	<1	8	34	138	2.79	10	0.28	661	5	0.14	7	260	54	<5	<20	46	0.06	<10	11	<10	<1	58

Resplit:

1	7R127153	<0.2	5.34	55	120	15	3.17	<1	18	97	41	3.38	20	1.25	282	12	0.32	40	410	98	10	<20	545	0.10	<10	109	<10	7	57
36	7R127188	<0.2	2.95	40	85	10	3.61	<1	15	64	59	3.31	10	0.98	488	22	0.07	65	1290	52	<5	<20	92	0.06	<10	182	<10	5	53

Standard:

Pb129a	12.0	0.87	15	60	<5	0.47	57	7	12	1416	1.55	<10	0.64	355	3	0.03	7	430	6144	15	<20	32	0.03	<10	20	<10	<1	9986
Pb129a	11.9	0.86	20	65	<5	0.46	58	7	11	1408	1.58	<10	0.68	362	5	0.02	8	420	6206	15	<20	35	0.04	<10	20	<10	<1	>10000



ECO TECH LABORATORY LTD.

Jutta Jealous

B.C. Certified Assayer

JJ/ndw
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XLS/07

20-Nov-08
Alex Stewart Geochemical
ECO TECH LABORATORY LTD.
 10041 Dallas Drive
KAMLOOPS, B.C.
 V2C 6T4

ICP CERTIFICATE OF ANALYSIS AW 2008- 8583

Playfair Mining Ltd.
 470 Granville St, Suite 520
Vancouver, BC
 V6C 1V5

Phone: 250-573-5700
 Fax : 250-573-4557

No. of samples received: 75
Sample Type: core
Submitted by: Mark Nelson/KC Smith
Project Name: RISBY
Shipment #: RT08-52

Values in ppm unless otherwise reported

Et #.	Tag #	Ag	Al %	As	Ba	Bi	Ca %	Cd	Co	Cr	Cu	Fe %	La	Mg %	Mn	Mo	Na %	Ni	P	Pb	Sb	Sn	Sr	Ti %	U	V	W	Y	Zn
1	7R127278	0.2	5.41	45	40	5	4.54	<1	12	80	18	1.69	20	0.98	120	1	0.46	25	650	36	10	<20	369	0.11	<10	34	<10	4	34
2	7R127279	<0.2	3.60	40	30	<5	4.07	<1	10	100	19	1.44	20	0.74	120	<1	0.31	24	510	28	5	<20	255	0.10	<10	24	<10	5	25
3	7R127280	<0.2	3.10	30	15	<5	2.78	<1	14	90	41	1.84	20	0.49	105	2	0.30	27	450	26	<5	<20	202	0.09	<10	29	<10	4	21
4	7R127281	<0.2	4.52	35	55	5	4.09	<1	22	96	54	4.12	20	1.44	389	<1	0.20	36	450	34	<5	<20	156	0.15	<10	48	<10	5	48
5	7R127282	<0.2	5.03	45	35	<5	4.18	<1	18	86	36	2.61	20	1.20	162	2	0.37	32	460	40	10	<20	400	0.12	<10	45	<10	4	47
6	7R127283	<0.2	4.01	35	35	<5	4.23	<1	16	92	37	2.17	20	1.02	158	<1	0.32	26	690	36	10	<20	459	0.15	<10	41	<10	5	43
7	7R127284	<0.2	2.34	<5	95	<5	0.21	<1	26	96	30	5.09	10	1.03	431	2	0.02	46	350	32	<5	<20	5	0.16	<10	44	<10	2	99
8	7R127285	<0.2	5.46	60	55	120	4.52	<1	13	75	35	1.88	30	0.76	191	3	0.32	28	430	38	<5	<20	362	0.13	<10	35	<10	5	64
9	7R127286	<0.2	5.54	60	55	<5	4.11	<1	12	99	27	1.61	30	0.60	168	3	0.56	30	790	44	10	<20	309	0.11	<10	35	<10	5	44
10	7R127287	<0.2	6.34	60	100	35	4.61	<1	14	87	28	2.56	30	1.09	256	<1	0.43	31	560	40	5	<20	348	0.14	<10	52	<10	6	77
11	7R127288	<0.2	5.84	50	90	20	4.13	<1	12	86	39	2.02	30	0.99	220	4	0.47	22	620	38	10	<20	348	0.13	<10	36	<10	4	58
12	7R127289	<0.2	5.83	60	30	15	4.82	<1	10	57	27	1.34	30	0.45	232	1	0.51	23	490	34	<5	<20	480	0.09	<10	23	<10	4	41
13	7R127290	<0.2	5.56	45	105	<5	4.10	<1	10	71	38	1.87	30	0.90	219	2	0.52	21	500	34	10	<20	450	0.11	<10	44	<10	4	53
14	7R127291	<0.2	5.10	45	255	10	3.98	<1	14	87	62	2.74	30	1.41	272	3	0.41	34	790	36	10	<20	414	0.17	<10	125	<10	7	78
15	7R127292	<0.2	4.90	35	115	10	3.87	<1	18	104	36	3.37	30	1.41	370	2	0.39	37	560	34	10	<20	277	0.14	<10	79	<10	6	76
16	7R127293	<0.2	3.35	25	50	5	5.16	<1	13	82	43	3.08	30	1.24	814	3	0.16	25	460	24	5	<20	244	0.09	<10	60	<10	3	82
17	7R127294	<0.2	5.66	45	120	40	4.12	<1	15	81	43	2.68	30	1.22	390	2	0.41	31	510	38	10	<20	385	0.15	<10	63	<10	6	79
18	7R127295	<0.2	6.22	55	180	15	4.19	<1	16	84	64	3.02	30	1.29	344	1	0.42	32	460	44	10	<20	409	0.16	<10	73	<10	5	85
19	7R127296	<0.2	4.22	35	55	15	4.67	<1	13	62	41	2.15	30	1.05	500	4	0.40	31	970	28	5	<20	299	0.09	<10	54	<10	4	45
20	7R127297	<0.2	6.04	55	75	10	4.53	<1	17	90	51	2.96	40	1.13	272	<1	0.41	32	470	44	5	<20	425	0.18	<10	66	<10	8	70
21	7R127298	<0.2	4.75	35	25	105	5.30	<1	8	53	37	1.88	20	0.61	479	2	0.29	19	360	32	<5	<20	327	0.09	<10	25	<10	2	47
22	7R127299	<0.2	5.71	40	135	<5	3.63	<1	21	110	41	4.12	20	1.62	359	2	0.34	40	520	42	10	<20	210	0.23	<10	81	<10	7	65
23	7R127300	<0.2	4.62	25	30	90	5.01	<1	15	78	299	3.78	20	0.92	620	4	0.20	36	1210	32	<5	<20	254	0.09	<10	58	<10	2	73
24	7R127301	<0.2	5.03	40	60	20	4.24	<1	14	79	129	3.51	30	0.95	486	2	0.31	29	710	34	<5	<20	254	0.14	<10	47	<10	4	61
25	7R127302	<0.2	5.86	45	225	5	3.33	<1	19	113	46	3.89	30	1.74	312	3	0.38	40	830	44	10	<20	272	0.27	<10	87	<10	8	64

Et #.	Tag #	Ag	Al %	As	Ba	Bi	Ca %	Cd	Co	Cr	Cu	Fe %	La	Mg %	Mn	Mo	Na %	Ni	P	Pb	Sb	Sn	Sr	Ti %	U	V	W	Y	Zn
26	7R127303	<0.2	6.19	35	130	<5	3.80	<1	20	112	45	3.84	30	1.52	342	<1	0.45	39	520	44	<5	<20	273	0.26	<10	78	<10	8	69
27	7R127304	<0.2	6.30	45	165	<5	3.67	<1	21	116	49	4.20	30	1.63	344	2	0.45	42	490	44	<5	<20	263	0.23	<10	81	<10	9	89
28	7R127305	<0.2	4.44	10	140	25	3.04	<1	22	119	75	6.06	30	1.16	336	3	0.30	50	610	36	<5	<20	189	0.17	<10	59	<10	8	54
29	7R127306	<0.2	3.35	20	210	<5	2.42	<1	20	109	31	4.15	20	1.70	385	2	0.16	43	300	28	10	<20	116	0.21	<10	74	<10	6	77
30	7R127307	<0.2	4.56	25	65	80	5.47	<1	8	60	119	3.43	20	0.54	777	6	0.23	15	440	30	<5	<20	233	0.09	<10	22	<10	1	89
31	7R127308	1.3	5.32	35	150	55	6.33	2	12	80	52	3.93	20	1.36	1275	2	0.25	20	440	100	5	<20	435	0.17	<10	52	<10	4	268
32	7R127309	<0.2	4.09	25	30	25	3.89	<1	5	42	284	2.59	10	0.19	468	2	0.16	10	390	28	<5	<20	288	0.06	<10	10	<10	2	41
33	7R127310	1.9	1.02	<5	115	845	3.42	5	70	19	4669	>10	20	1.00	623	12	0.06	113	400	24	<5	<20	89	0.14	<10	9	<10	<1	62
34	7R127311	<0.2	5.89	45	135	20	4.12	<1	15	82	78	3.71	20	1.01	394	35	0.28	28	590	42	<5	<20	373	0.21	<10	57	<10	5	55
35	7R127312	<0.2	2.27	20	115	10	1.37	<1	8	87	21	1.92	<10	0.48	374	1	0.12	15	330	20	<5	<20	90	0.11	<10	27	<10	3	36
36	7R127313	<0.2	3.69	30	65	5	2.58	<1	11	102	15	1.98	20	0.72	265	2	0.28	21	480	30	5	<20	126	0.15	<10	37	<10	6	43
37	7R127314	<0.2	5.85	40	90	25	3.71	<1	17	102	43	3.35	30	1.29	289	3	0.42	35	980	40	5	<20	200	0.20	<10	62	<10	7	67
38	7R127315	<0.2	4.44	30	80	10	5.41	<1	7	62	45	1.49	30	0.50	351	7	0.23	13	780	32	<5	<20	324	0.14	<10	34	<10	6	78
39	7R127316	<0.2	4.44	35	55	15	5.03	<1	7	47	34	1.72	20	0.31	357	1	0.21	11	330	28	<5	<20	256	0.12	<10	20	<10	3	63
40	7R127317	<0.2	3.72	35	15	15	4.73	<1	3	49	25	1.14	10	0.09	414	2	0.12	5	500	26	<5	<20	125	0.09	<10	8	<10	3	56
41	7R127320	<0.2	2.47	20	35	<5	4.43	<1	10	85	22	3.25	30	0.59	590	2	0.18	18	750	26	<5	<20	184	0.13	<10	22	<10	5	42
42	7R127321	0.2	3.18	20	35	20	5.22	<1	20	85	51	3.76	20	1.31	485	1	0.21	33	470	30	5	<20	185	0.11	<10	38	<10	3	55
43	7R127322	<0.2	3.61	35	20	<5	4.41	<1	16	86	24	2.21	20	1.00	207	2	0.27	29	490	32	10	<20	259	0.13	<10	36	<10	6	47
44	7R127323	<0.2	4.18	25	395	<5	2.23	<1	9	63	6	2.98	20	4.69	221	4	0.05	24	990	36	15	<20	88	0.15	<10	101	<10	7	92
45	7R127324	<0.2	4.99	30	115	40	4.26	<1	17	95	74	3.69	30	1.09	515	23	0.34	35	550	38	<5	<20	279	0.14	<10	51	<10	6	72
46	7R127325	0.2	3.56	10	70	165	6.25	<1	20	72	112	5.08	20	1.18	768	10	0.16	31	450	26	<5	<20	201	0.11	<10	43	<10	2	61
47	7R127326	<0.2	5.62	45	95	20	3.77	<1	16	95	51	2.94	30	0.92	244	3	0.46	34	430	42	<5	<20	301	0.18	<10	48	<10	6	58
48	7R127327	<0.2	5.65	40	85	35	3.97	<1	17	85	64	3.24	30	0.88	273	<1	0.45	35	570	42	<5	<20	315	0.15	<10	50	<10	5	63
49	7R127328	<0.2	4.93	35	105	40	3.48	<1	17	109	71	3.43	30	1.10	335	4	0.38	34	540	38	<5	<20	287	0.15	<10	57	<10	6	64
50	7R127329	<0.2	5.45	40	35	30	4.21	<1	14	80	67	2.43	30	0.70	278	3	0.39	27	500	44	<5	<20	298	0.14	<10	33	<10	4	54
51	7R127330	<0.2	5.27	45	20	15	4.52	<1	16	81	46	2.49	30	0.89	360	2	0.38	30	540	40	10	<20	269	0.13	<10	38	<10	4	59
52	7R127331	1.1	3.83	20	75	105	5.60	<1	16	81	60	3.95	30	1.15	753	2	0.23	27	700	54	<5	<20	239	0.09	<10	49	<10	5	82
53	7R127332	0.3	4.45	40	75	200	4.13	<1	6	48	19	1.50	30	0.72	447	7	0.31	16	560	36	5	<20	367	0.12	<10	39	<10	5	59
54	7R127333	<0.2	3.85	45	25	110	3.70	<1	8	58	34	1.55	20	0.64	328	5	0.32	19	500	34	5	<20	447	0.11	<10	33	<10	4	52
55	7R127334	<0.2	3.67	35	60	20	4.85	<1	16	62	47	3.35	30	1.28	678	3	0.20	28	650	32	15	<20	217	0.14	<10	93	<10	6	106
56	7R127335	<0.2	4.30	30	80	<5	4.28	<1	16	94	56	3.04	30	1.26	451	4	0.30	32	400	36	10	<20	368	0.13	<10	74	<10	6	98
57	7R127336	<0.2	4.21	45	55	15	3.63	<1	11	66	44	1.47	30	0.56	159	3	0.41	24	740	38	10	<20	435	0.12	<10	61	<10	6	44
58	7R127337	<0.2	4.59	40	125	20	6.23	<1	9	51	30	2.03	30	0.79	553	3	0.36	20	520	38	10	<20	649	0.11	<10	54	<10	5	74
59	7R127338	0.2	1.72	15	15	80	5.91	<1	6	19	53	2.34	10	0.52	1084	3	0.10	13	750	20	<5	<20	242	0.06	<10	41	<10	2	47
60	7R127339	0.8	1.83	<5	20	225	3.90	<1	9	27	48	3.34	10	0.77	1022	3	0.08	15	690	30	<5	<20	178	0.07	<10	53	<10	3	53
61	7R127345	<0.2	6.15	50	105	10	4.34	<1	14	88	27	2.44	30	1.00	273	1	0.46	31	520	48	5	<20	317	0.18	<10	48	<10	7	61
62	7R127346	<0.2	5.25	40	105	20	3.71	<1	21	105	43	3.60	30	1.39	349	3	0.42	39	720	44	5	<20	227	0.18	<10	63	<10	6	78
63	7R127347	<0.2	5.53	45	95	25	4.24	<1	14	87	26	2.40	30	1.07	301	<1	0.45	31	490	46	10	<20	322	0.17	<10	48	<10	6	70
64	7R127348	<0.2	4.53	40	55	20	3.89	<1	14	105	45	1.97	20	0.61	249	3	0.38	30	360	38	<5	<20	274	0.12	<10	28	<10	5	49
65	7R127349	0.2	3.19	30	45	200	3.62	<1	10	125	20	2.09	20	0.72	410	16	0.26	22	380	34	5	<20	185	0.09	<10	33	<10	5	48

Et #.	Tag #	Ag	Al %	As	Ba	Bi	Ca %	Cd	Co	Cr	Cu	Fe %	La	Mg %	Mn	Mo	Na %	Ni	P	Pb	Sb	Sn	Sr	Ti %	U	V	W	Y	Zn
66	7R127350	<0.2	5.93	60	80	30	4.57	<1	13	83	27	1.85	30	0.76	224	<1	0.49	27	910	54	5	<20	431	0.13	<10	34	<10	5	53
67	7R127351	<0.2	5.67	50	80	10	3.91	<1	14	103	25	2.29	30	0.92	228	3	0.53	34	650	48	10	<20	393	0.13	<10	52	<10	6	56
68	7R127352	<0.2	5.52	55	55	<5	4.44	<1	11	76	24	1.70	30	0.71	208	<1	0.46	27	480	48	10	<20	455	0.15	<10	34	<10	6	59
69	7R127353	<0.2	5.18	65	100	<5	4.19	<1	11	83	27	1.62	30	0.80	210	3	0.50	25	1110	44	<5	<20	459	0.14	<10	68	<10	6	54
70	7R127354	<0.2	4.45	40	75	5	4.03	<1	16	78	52	2.10	30	0.62	188	4	0.39	34	680	40	<5	<20	364	0.12	<10	46	<10	5	49
71	7R127355	1.9	0.98	<5	105	860	3.40	4	59	13	4610	>10	10	0.98	622	15	0.05	110	370	24	<5	<20	79	0.14	<10	10	<10	<1	58
72	7R127356	<0.2	4.66	45	115	<5	3.94	<1	12	91	35	1.91	30	0.74	230	2	0.47	28	570	42	5	<20	409	0.13	<10	45	<10	5	47
73	7R127357	<0.2	3.36	35	75	20	4.00	<1	13	109	26	2.46	30	0.91	344	2	0.27	26	520	32	<5	<20	239	0.11	<10	46	<10	6	44
74	7R127358	<0.2	3.71	35	70	55	8.34	<1	10	64	23	3.21	30	1.42	1780	7	0.24	21	790	34	10	<20	422	0.09	<10	93	<10	4	103
75	7R127359	<0.2	2.33	30	40	20	9.78	<1	12	66	17	3.36	30	1.57	1409	3	0.07	25	490	22	10	<20	341	0.06	<10	82	<10	9	73

QC DATA:

Repeat:

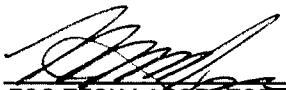
1	7R127278	<0.2	5.42	50	35	<5	4.56	<1	12	78	17	1.70	20	0.98	120	1	0.45	25	670	36	10	<20	363	0.12	<10	34	<10	5	36
10	7R127287	<0.2	6.37	55	105	35	4.65	<1	14	88	28	2.59	30	1.09	257	<1	0.43	31	580	40	5	<20	348	0.14	<10	52	<10	5	79
19	7R127296	<0.2	4.19	35	55	15	4.65	<1	12	59	41	2.14	30	1.05	499	3	0.39	31	970	28	<5	<20	294	0.08	<10	54	<10	4	46
36	7R127313	<0.2	3.76	35	65	5	2.65	<1	11	107	16	2.03	20	0.73	274	2	0.28	21	480	34	10	<20	124	0.16	<10	38	<10	7	43
45	7R127324	<0.2	5.01	35	115	40	4.27	<1	17	102	74	3.68	30	1.08	517	26	0.34	34	540	40	10	<20	277	0.14	<10	51	<10	6	71
54	7R127333	<0.2	3.88	30	30	105	3.73	<1	8	62	34	1.56	30	0.65	333	5	0.32	19	500	34	10	<20	447	0.12	<10	33	<10	4	53
72	7R127356	0.2	4.70	45	110	<5	3.96	<1	12	93	31	1.91	30	0.75	232	2	0.48	28	560	40	5	<20	409	0.14	<10	45	<10	5	47

Resplit:

1	7R127278	<0.2	5.30	50	35	<5	4.49	<1	13	77	19	1.67	20	0.92	114	2	0.45	27	660	38	10	<20	350	0.12	<10	32	<10	4	34
36	7R127313	<0.2	3.79	35	75	<5	2.53	<1	11	112	16	2.11	20	0.75	287	1	0.28	23	500	36	5	<20	125	0.16	<10	39	<10	7	44
72	7R127356	0.2	4.76	50	110	<5	3.94	<1	13	90	33	1.93	30	0.76	227	<1	0.48	29	590	44	5	<20	414	0.13	<10	45	<10	6	47

Standard:

Pb129a		12.0	0.87	10	70	<5	0.51	63	6	12	1434	1.62	<10	0.71	365	4	0.03	4	410	6218	25	<20	31	0.03	<10	21	<10	<1	>10000
Pb129a		11.7	0.86	5	65	<5	0.50	62	6	11	1395	1.65	<10	0.65	348	4	0.03	5	420	6206	20	<20	30	0.04	<10	21	<10	<1	9970
Pb129a		11.5	0.83	15	65	<5	0.48	63	6	11	1378	1.65	<10	0.69	347	5	0.03	5	430	6200	20	<20	32	0.03	<10	21	<10	<1	9994


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CERTIFICATE OF ASSAY AW 2008-8583

Playfair Mining Ltd.
470 Granville St, Suite 520
Vancouver, BC
V6C 1V5

26-Nov-08

No. of samples received: 75
Sample Type: core
Submitted by: Mark Nelson/KC Smith
Project Name: RISBY
Shipment #: RT08-52

ET #.	Tag #	W (%)
1	7R127278	<0.001
2	7R127279	<0.001
3	7R127280	<0.001
4	7R127281	<0.001
5	7R127282	<0.001
6	7R127283	<0.001
7	7R127284	<0.001
8	7R127285	0.002
9	7R127286	<0.001
10	7R127287	<0.001
11	7R127288	0.015
12	7R127289	0.024
13	7R127290	0.005
14	7R127291	0.017
15	7R127292	0.046
16	7R127293	0.067
17	7R127294	0.018
18	7R127295	0.046
19	7R127296	0.034
20	7R127297	<0.001
21	7R127298	0.129
22	7R127299	<0.001
23	7R127300	0.053
24	7R127301	0.051
25	7R127302	0.004
26	7R127303	<0.001
27	7R127304	0.011
28	7R127305	0.600
29	7R127306	0.018
30	7R127307	0.215
31	7R127308	0.064


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Playfair Mining Ltd. AW8-8583

26-Nov-08

ET #.	Tag #	W (%)
32	7R127309	0.169
33	7R127310	1.030
34	7R127311	0.066
35	7R127312	0.009
36	7R127313	<0.001
37	7R127314	0.070
38	7R127315	0.055
39	7R127316	0.042
40	7R127317	0.070
41	7R127320	0.002
42	7R127321	0.001
43	7R127322	0.001
44	7R127323	0.002
45	7R127324	0.006
46	7R127325	0.015
47	7R127326	0.012
48	7R127327	0.015
49	7R127328	0.023
50	7R127329	0.054
51	7R127330	0.011
52	7R127331	0.059
53	7R127332	0.036
54	7R127333	0.035
55	7R127334	0.005
56	7R127335	0.001
57	7R127336	0.013
58	7R127337	0.002
59	7R127338	0.042
60	7R127339	0.083
61	7R127345	0.002
62	7R127346	0.019
63	7R127347	0.013
64	7R127348	0.044
65	7R127349	0.007
66	7R127350	0.003
67	7R127351	0.043
68	7R127352	0.004
69	7R127353	0.001
70	7R127354	0.007
71	7R127355	1.025
72	7R127356	0.005

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Playfair Mining Ltd. AW8-8583

26-Nov-08

ET #.	Tag #	W (%)
73	7R127357	0.002
74	7R127358	0.017
75	7R127359	0.008

QC DATA:

Repeat:

1	7R127278	<0.001
10	7R127287	0.001
18	7R127295	0.044
19	7R127296	0.033
28	7R127305	0.591
34	7R127311	0.066
42	7R127321	0.001
51	7R127330	0.012
65	7R127349	0.008

Standard:

TLG-1	0.083
TLG-1	0.084
MP2	0.656
CT1	1.041

JJ/ap/nw
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ECO TECH LABORATORY LTD.

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20-Nov-08
Alex Stewart Geochemical
ECO TECH LABORATORY LTD.
 10041 Dallas Drive
KAMLOOPS, B.C.
 V2C 6T4

ICP CERTIFICATE OF ANALYSIS AW 2008- 8602

Playfair Mining Ltd.
 470 Granville St, Suite 520
Vancouver, BC
 V6C 1V5

Phone: 250-573-5700
 Fax : 250-573-4557

No. of samples received: 7
Sample Type: Core
Project Name: RISBY
Shipment #:RT08-52
Submitted by:Mark Nelson/KC Smith

Values in ppm unless otherwise reported

Et #.	Tag #	Ag	Al %	As	Ba	Bi	Ca %	Cd	Co	Cr	Cu	Fe %	La	Mg %	Mn	Mo	Na %	Ni	P	Pb	Sb	Sn	Sr	Ti %	U	V	W	Y	Zn
1	7R127318	<0.2	3.88	35	95	10	4.50	<1	10	48	58	2.58	10	0.39	610	842	0.16	13	620	38	<5	<20	179	0.11	<10	28	<10	3	93
2	7R127319	<0.2	1.62	10	75	10	0.53	<1	15	89	47	3.45	<10	0.61	305	8	0.07	18	1020	24	<5	<20	14	0.16	<10	36	<10	5	62
3	7R127340	<0.2	6.01	55	110	<5	4.13	<1	27	57	81	3.55	30	0.94	263	1	0.39	45	480	54	<5	<20	330	0.15	<10	41	<10	5	57
4	7R127341	<0.2	6.08	55	80	<5	4.45	<1	28	65	52	3.38	30	0.83	283	<1	0.41	40	540	56	<5	<20	389	0.16	<10	37	<10	5	70
5	7R127342	<0.2	4.76	60	35	10	3.97	<1	10	67	22	1.21	20	0.53	178	1	0.35	21	500	44	10	<20	416	0.12	<10	25	<10	6	48
6	7R127343	<0.2	4.86	65	60	10	4.59	<1	10	71	25	1.60	30	0.78	289	1	0.33	23	570	44	10	<20	373	0.13	<10	30	<10	7	71
7	7R127344	<0.2	5.56	55	115	10	4.63	<1	14	65	31	2.49	30	1.02	316	1	0.39	33	510	52	10	<20	318	0.16	<10	52	<10	7	68

QC DATA:

Repeat:

1	7R127318	<0.2	3.92	50	90	5	4.55	<1	10	49	57	2.59	20	0.39	627	855	0.16	14	620	38	<5	<20	181	0.12	<10	29	<10	3	91
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Resplit:

1	7R127318	<0.2	4.09	45	80	15	4.50	<1	10	51	51	2.43	20	0.41	601	817	0.17	14	650	38	<5	<20	180	0.13	<10	32	<10	5	86
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Standard:

Pb129a		12.1	0.84	10	65	<5	0.49	62	6	11	1369	1.61	<10	0.67	342	3	0.03	5	420	6198	25	<20	31	0.04	<10	20	<10	<1	9999
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JJ/ap
 dt/8583s
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CERTIFICATE OF ASSAY AW 2008-8602

Playfair Mining Ltd.
470 Granville St, Suite 520
Vancouver, BC
V6C 1V5

1-Dec-08

No. of samples received: 7
Sample Type: Core
Submitted by: Mark Nelson/KC Smith
Project Name: RISBY
Shipment #: RT08-52

ET #.	Tag #	Mo (%)	W (%)
1	7R127318	0.091	0.022
2	7R127319		<0.001
3	7R127340		0.011
4	7R127341		0.041
5	7R127342		0.001
6	7R127343		0.005
7	7R127344		<0.001

QC DATA:

Repeat:

1	7R127318	0.090	0.020
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Standard:

MP-2	0.282	
TLG-1		0.083
CT-1		1.038

JJ/ap/nw
XLS/08


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Alex
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GEOCHEMICAL

CERTIFICATE OF ANALYSES AW 2008-8468

Playfair Mining Ltd.
470 Granville St, Suite 520
Vancouver, BC
V6C 1V5

12-Dec-08

No. of samples received: 61
Sample Type: Rock
Shipment #: RT08-50
Submitted by: Mark Nelson

ET #.	Tag #	SG g/cm ³
37	7R127189	3.00
38	7R127190	2.91
52	7R127204	3.01
53	7R127205	2.93
55	7R127207	2.78

QC DATA:

Repeat:

37	7R127189	3.03
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Standard:

SG-1	2.61
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Alex
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GEOCHEMICAL

CERTIFICATE OF ANALYSIS AW 2008-8506

Playfair Mining Ltd.
470 Granville St, Suite 520
Vancouver, BC
V6C 1V5

12-Dec-08

No. of samples received: 64
Sample Type: Core
Project: Risby
Shipment #: RT08-51
Submitted by: Mark Nelson

ET #.	Tag #	SG g/cm ³
37	7R127250	2.84
41	7R127254	2.81
43	7R127256	2.97
45	7R127258	2.18
56	7R127269	3.06

QC DATA:

Repeat:

37	7R127250	2.86
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Standard:

SG-1	2.60
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JJ/nw
XLS/08

ECO TECH LABORATORY LTD.

Jutta Jealous
B.C. Certified Assayer

10945-B River Road, Delta, B.C., V4C 2R8, 604-540-2233, Fax: 604-588-3960

Recommended values and the “Between Lab” Two Standard Deviations

Copper concentration $0.458 \pm 0.042\%$

DATE OF CERTIFICATION: February 8, 2006

Cu: 4-acid digestion, AA or ICP finish.

STANDARD REFERENCE MATERIAL CDN-W-1

	Lab 1	Lab 2	Lab 3	Lab 4	Lab 5	Lab 6	Lab 7	Lab 8	Lab 9	Lab 10	Lab 11
	W %	W %	W %	W %	W %	W %	W %	W %	W %	W %	W %
	0.97	0.97	1.11	1.11	0.53	1.00	1.00	0.90	1.07	1.00	1.02
	0.93	0.97	1.11	1.09	0.53	1.00	1.00	0.90	1.08	1.00	1.06
	0.95	0.98	1.08	1.08	0.53	1.03	1.01	0.95	1.08	1.01	1.04
	0.93	0.97	1.12	1.11	0.53	1.00	0.98	0.94	1.07	1.00	1.03
	0.94	0.97	1.09	1.10	0.50	1.01	1.05	0.92	1.06	1.00	1.04
	0.94	0.97	1.10	1.07	0.50	1.06	1.05	0.92	1.08	1.00	1.06
	0.92	0.97	1.12	1.10	0.51	1.01	1.06	0.95	1.06	0.98	1.04
	0.94	0.98	1.11	1.12	0.50	1.01	1.02	0.94	1.05	1.00	1.05
	0.94	0.95	1.10	1.12	0.50	1.02	1.05	0.95	1.06	1.02	1.06
	0.93	0.98	1.12	1.10	0.53	1.03	1.04	0.95	1.07	0.98	1.04
Mean	0.94	0.97	1.11	1.10	0.52	1.02	1.03	0.93	1.07	1.00	1.04
Std Dev	0.009	0.009	0.014	0.017	0.014	0.019	0.028	0.018	0.011	0.013	0.011
% RSD	0.94	0.96	1.29	1.54	2.76	1.87	2.69	1.94	1.02	1.27	1.07

	Lab 1	Lab 2	Lab 3	Lab 4	Lab 5	Lab 6	Lab 7	Lab 8	Lab 9	Lab 10	Lab 11
	Cu %	Cu %	Cu %	Cu %	Cu %	Cu %	Cu %	Cu %	Cu %	Cu %	Cu %
	0.449	0.46	0.436	0.47	0.453	0.470	0.487	0.437	0.43	0.480	0.439
	0.447	0.48	0.428	0.47	0.451	0.468	0.496	0.435	0.43	0.485	0.470
	0.442	0.46	0.433	0.47	0.450	0.472	0.488	0.434	0.43	0.478	0.453
	0.448	0.46	0.440	0.48	0.453	0.482	0.485	0.427	0.43	0.475	0.472
	0.443	0.46	0.442	0.48	0.451	0.479	0.499	0.403	0.43	0.461	0.469
	0.450	0.45	0.432	0.47	0.462	0.487	0.493	0.429	0.43	0.471	0.470
	0.447	0.46	0.435	0.47	0.455	0.472	0.484	0.424	0.43	0.466	0.487
	0.449	0.46	0.431	0.48	0.453	0.481	0.487	0.423	0.43	0.474	0.485
	0.445	0.47	0.435	0.48	0.457	0.478	0.497	0.422	0.43	0.466	0.458
	0.447	0.46	0.439	0.48	0.463	0.475	0.496	0.419	0.43	0.471	0.471
Mean	0.447	0.462	0.435	0.475	0.455	0.476	0.491	0.425	0.430	0.473	0.467
Std Dev	0.003	0.008	0.005	0.005	0.005	0.006	0.006	0.010	0.000	0.007	0.011
% RSD	0.59	1.80	1.05	1.11	1.05	1.24	1.16	2.24	0.00	1.52	2.33

Tungsten results from Lab. 5 were removed from the data set.

STANDARD REFERENCE MATERIAL CDN-W-1

Participating Laboratories:

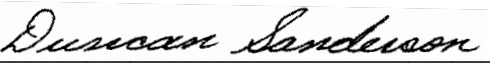
(not in same order as listed in table of results)

Acme Analytical Laboratories Ltd., Vancouver
Assayers Canada Ltd., Vancouver
ALS Chemex Laboratories, North Vancouver
EcoTech Laboratory, Kamloops, B.C.
Genalysis Laboratory Services Pty. Ltd., Australia
GTK Laboratory, Finland
International Plasma Labs. Ltd., Vancouver
OMAC Laboratories Ltd., Ireland
SGS-XRAL, Toronto
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Certified by


Duncan Sanderson, Certified Assayer of B.C.

Geochemist


Dr. Barry Smee, Ph.D., P. Geo.

PLAYFAIR MINING LTD 2008 RISBY DDH RESULTS

All ddh analytical data.xlsx

DDH	Sample #	From	To	Width	Lab	Work Order	W	Ag	Al %	As	Ba	Bi	Ca %	Cd	Co	Cr	Cu	Fe %	La	Mg %	Mn	Mo	Na %	Ni	P	Pb	Sb	Sn	Sr	Ti %	U	V	W	Y	Zn	
%	#						ppm	ppm	%	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	
RT08-47	7R125501	114.0	115.5	1.5	Eco Tech	AK08-8205	0.002	<0.2	1.84	15	50	<5	1.18	<1	16	82	15	3.49	30	0.95	340	4	0.02	33	530	26	5	<20	15	0.06	<10	42	<10	9	31	
RT08-47	7R125502	115.5	117.0	1.5	Eco Tech	AK08-8205	0.001	<0.2	1.93	40	55	<5	0.61	<1	18	91	17	3.49	30	0.95	316	4	0.02	38	400	28	10	<20	<1	0.08	<10	45	<10	8	33	
RT08-47	7R125503	117.0	118.6	1.5	Eco Tech	AK08-8205	0.001	<0.2	1.82	25	50	<5	2.07	<1	13	70	4	3.02	30	0.97	359	3	0.03	28	570	24	10	<20	81	0.06	<10	36	<10	12	29	
RT08-47	7R125504	118.6	120.1	1.5	Eco Tech	AK08-8205	0.006	<0.2	1.44	20	85	<5	0.75	<1	9	50	20	2.17	20	0.64	312	2	0.07	4	700	22	5	<20	203	0.11	<10	43	<10	10	29	
RT08-47	7R125505	120.1	121.6	1.5	Eco Tech	AK08-8205	<0.001	<0.2	1.21	25	100	<5	1.25	<1	10	50	25	1.25	10	0.95	<1	19	0.02	<1	500	26	<5	<20	3	0.16	<10	51	<10	4	55	
RT08-47	7R125506	121.6	123.0	1.4	Eco Tech	AK08-8205	0.001	<0.2	2.39	10	140	20	0.29	<1	20	101	25	3.99	<10	1.06	382	4	0.03	32	390	26	5	<20	26	0.19	<10	51	<10	1	59	
RT08-47	7R125507	123.0	124.5	1.5	Eco Tech	AK08-8205	0.001	<0.2	1.16	10	100	<5	0.89	<1	7	64	11	2.11	10	0.61	415	2	0.05	4	660	18	5	<20	12	0.12	<10	44	<10	10	36	
RT08-47	7R125508	124.5	126.2	1.7	Eco Tech	AK08-8205	<0.001	<0.2	1.24	10	125	10	0.96	<1	8	65	13	2.07	10	0.64	444	3	0.06	4	680	18	10	<20	17	0.14	<10	47	<10	10	35	
RT08-47	7R125509	126.2	127.7	1.5	Eco Tech	AK08-8205	<0.001	<0.2	1.42	10	95	10	1.60	<1	11	67	9	2.39	20	0.82	468	2	0.05	11	570	18	10	<20	14	0.11	<10	40	<10	9	35	
RT08-47	7R125510	127.7	129.2	1.5	Eco Tech	AK08-8205	0.001	<0.2	2.19	25	125	5	0.67	<1	22	105	22	3.63	<10	1.00	428	5	0.06	33	410	28	10	<20	28	0.15	<10	50	<10	3	57	
RT08-47	7R125511	129.2	130.7	1.5	Eco Tech	AK08-8205	<0.001	<0.2	2.65	40	105	5	0.70	<1	25	90	29	4.05	<10	1.27	465	6	0.04	42	620	32	<5	<20	3	0.16	<10	51	<10	4	85	
RT08-47	7R125512	130.7	132.2	1.5	Eco Tech	AK08-8205	<0.001	<0.2	2.76	20	145	10	0.64	<1	25	99	98	4.75	<10	1.39	512	5	0.04	42	660	32	15	<20	22	0.18	<10	57	<10	3	84	
RT08-47	7R125513	132.2	133.7	1.5	Eco Tech	AK08-8205	<0.001	<0.2	2.79	20	125	20	0.33	<1	26	93	33	4.87	<10	1.24	477	4	0.04	40	580	32	15	<20	14	0.19	<10	59	<10	2	90	
RT08-47	7R125514	133.7	135.2	1.5	Eco Tech	AK08-8205	<0.001	<0.2	2.87	10	135	10	0.50	<1	27	91	31	4.97	<10	1.30	482	5	0.04	42	560	36	15	<20	12	0.20	<10	60	<10	2	87	
RT08-47	7R125515	135.2	135.5	0.3	Eco Tech	AK08-8205	<0.001	<0.2	2.71	10	115	15	0.28	<1	27	93	32	4.90	<10	1.27	407	3	0.08	39	530	34	<5	<20	5	0.18	<10	53	<10	<1	89	
RT08-47	7R125516	sd @ 1.04MW & 4580 ppm Cu						1.051	1.9	101	<5	1.10	885	3.47	5	72	20	4576	<10	1.08	646	15	0.06	113	380	20	<5	<20	85	0.15	<10	11	<10	<1	64	
RT08-47	7R125517	135.5	137.0	1.5	Eco Tech	AK08-8205	0.002	<0.2	2.52	25	75	15	0.50	<1	25	79	31	3.86	<10	1.19	404	5	0.03	42	410	36	10	<20	11	0.11	<10	48	<10	4	85	
RT08-47	7R125518	137.0	138.5	1.5	Eco Tech	AK08-8205	0.001	<0.2	1.26	15	45	<5	1.54	<1	6	60	14	2.00	10	0.61	233	<1	0.07	3	810	20	<5	<20	19	0.06	<10	36	<10	15	22	
RT08-47	7R125519	138.5	140.0	1.5	Eco Tech	AK08-8205	0.001	<0.2	1.35	25	60	<5	1.67	<1	7	52	19	2.18	20	0.62	226	3	0.07	4	780	22	<5	<20	17	0.07	<10	38	<10	15	23	
RT08-47	7R125520	140.0	141.5	1.5	Eco Tech	AK08-8205	0.001	<0.2	1.19	10	80	<5	1.42	<1	7	56	21	2.25	10	0.62	284	2	0.06	3	760	22	10	<20	18	0.10	<10	41	<10	14	27	
RT08-47	7R125521	141.5	143.0	1.5	Eco Tech	AK08-8205	0.001	<0.2	1.03	15	55	<5	2.07	<1	6	48	22	1.98	20	0.53	317	3	0.05	3	680	20	5	<20	17	0.05	<10	35	<10	14	28	
RT08-47	7R125522	143.0	144.5	1.5	Eco Tech	AK08-8205	0.002	<0.2	1.21	65	105	10	1.27	<1	5	54	16	0.88	20	0.57	292	<1	0.07	6	620	24	<5	<20	20	0.08	<10	41	<10	1	41	
RT08-47	7R125523	144.5	146.0	1.5	Eco Tech	AK08-8205	0.001	<0.2	1.09	5	70	5	1.44	<1	6	63	15	1.98	20	0.52	304	3	0.06	4	670	22	10	<20	14	0.07	<10	36	<10	12	32	
RT08-47	7R125524	146.0	147.5	1.5	Eco Tech	AK08-8205	0.002	0.2	1.13	15	80	<5	0.93	<1	7	70	10	2.14	10	0.58	356	2	0.06	5	650	20	5	<20	11	0.10	<10	40	<10	10	50	
RT08-47	7R125525	147.5	149.0	1.5	Eco Tech	AK08-8205	0.002	1.2	1.24	10	60	<5	1.32	<1	7	68	18	2.12	20	0.56	323	2	0.06	6	640	24	<5	<20	8	0.07	<10	34	<10	11	37	
RT08-47	7R125526	149.0	152.1	3.1	Eco Tech	AK08-8205	0.003	<0.2	1.15	20	70	<5	0.96	<1	6	64	23	1.96	20	0.56	245	1	0.06	3	680	20	5	<20	5	0.07	<10	39	<10	12	29	
RT08-48	7R125527	243.8	245.3	1.5	Eco Tech	AK08-8206	0.010	<0.2	5.60	100	80	45	4.46	<1	11	74	39	2.00	30	0.69	178	<1	0.41	27	390	138	<5	<20	328	0.10	<10	30	<10	4	56	
RT08-48	7R125528	245.3	246.8	1.5	Eco Tech	AK08-8206	0.024	<0.2	5.65	110	70	80	4.64	<1	12	67	63	2.06	30	0.53	165	<1	0.39	26	360	132	5	<20	300	0.10	<10	25	<10	3	50	
RT08-48	7R125529	246.8	247.2	0.4	Eco Tech	AK08-8206	0.031	0.7	5.65	100	160	55	4.25	<1	14	94	69	2.82	20	0.82	215	3	0.35	30	310	134	15	<20	306	0.11	<10	34	<10	2	60	
RT08-48	7R125530	247.2	248.3	1.1	Eco Tech	AK08-8206	0.002	<0.2	6.00	115	85	45	4.94	<1	12	77	48	1.92	30	0.50	172	<1	0.44	27	460	148	5	<20	325	0.10	<10	25	<10	5	48	
RT08-48	7R125531	248.3	248.7	0.4	Eco Tech	AK08-8206	0.035	<0.2	5.32	95	80	35	4.34	<1	12	83	68	2.20	30	0.56	212	<1	0.35	25	460	128	5	<20	258	0.10	<10	28	<10	3	53	
RT08-48	7R125532	248.7	249.8	1.1	Eco Tech	AK08-8206	0.012	<0.2	5.48	95	140	30	3.73	<1	16	98	38	3.05	30	1.12	260	1	0.43	37	370	128	10	<20	255	0.13	<10	50	<10	2	76	
RT08-48	7R125533	249.8	251.3	1.5	Eco Tech	AK08-8206	0.002	<0.2	5.77	105	130	20	4.12	<1	14	96	130	2.63	20	0.82	224	1	0.46	37	410	148	15	<20	282	0.12	<10	44	<10	6	85	
RT08-48	7R125534	sd @ 1.04MW & 4580 ppm Cu						1.041	1.8	108	<5	95	870	3.34	2	62	18	4651	>10	<10	1.08	628	13	0.05	107	350	28	<5	<20	83	0.14	<10	9	<10	<1	66
RT08-48	7R125535	255.8	257.3	1.5	Eco Tech	AK08-8206	0.008	<0.2	5.46	55	110	10	3.45	<1	15	85	34	2.59	30	0.95	193	<1	0.43	32	350	92	<5	<20	240	0.12	<10	43	<10	5	53	
RT08-48	7R125536	257.3	258.2	0.9	Eco Tech	AK08-8206	0.012	<0.2	5.79	75	115	25	4.33	<1	11	80	28	2.03	30	0.78	196	<1	0.41	24	480	108	<5	<20	240	0.11	<10	31	<10	1	58	
RT08-48	7R125537	258.2	259.6	1.5	Eco Tech	AK08-8206	<0.001	<0.2	4.29	60	160	15	3.02	<1	15	136	35	2.57	20	0.99	174	2	0.31	34	220	86	<5	<20	177	0.11	<10	42	<10	2	54	
RT08-48	7R125538	259.6	270.9	1.0	Eco Tech	AK08-8206	0.025	0.2	3.75	50	70	220	2.81	<1	16	97	111	3.08	20	0.72	145	<1	0.29	24	230	68	<5	<20	258	0.08	<10	30	<10	<1	51	
RT08-48	7R125539	270.9	272.4	1.5	Eco Tech	AK																														

PLAYFAIR MINING LTD 2008 RISBY DDH RESULTS

All ddh analytical data.xlsx

DDH	Sample #	From	To	Width	Lab	York Order	W %	Ag ppm	Al %	As ppm	Ba ppm	Bi ppm	Ca %	Cd ppm	Co ppm	Cr ppm	Cu ppm	Fe %	La ppm	Mg %	Mn ppm	Mo ppm	Na %	Ni ppm	P ppm	Pb ppm	Sb ppm	Sn ppm	Sr ppm	Ti %	U ppm	V ppm	W ppm	Y ppm	Zn ppm	
RT08-S1	7R127237	239.0	240.0	1.0	Eco Tech	AK08-8506	0.001	<0.2	5.83	35	205	20	3.02	<1	17	97	35	4.54	20	1.46	333	1	0.35	37	430	60	<5	<20	325	0.13	<10	87	<10	3	97	
RT08-S1	7R127238	240.0	241.0	1.0	Eco Tech	AK08-8506	0.001	0.2	4.29	15	120	275	3.86	<1	18	76	83	4.16	20	1.09	496	4	0.22	56	370	48	<5	<20	295	0.08	<10	60	<10	4	89	
RT08-S1	7R127239	241.0	242.0	1.0	Eco Tech	AK08-8506	0.011	0.2	5.13	30	85	165	3.92	<1	8	94	38	3.12	30	0.84	553	3	0.04	25	270	24	<5	<20	311	0.07	<10	38	<10	2	80	
RT08-S1	7R127240	242.0	243.2	1.2	Eco Tech	AK08-8506	0.007	<0.2	4.77	30	45	75	5.28	<1	11	58	27	3.30	30	1.03	871	1	0.22	23	350	48	<5	<20	312	0.06	<10	48	<10	2	103	
RT08-S1	7R127241	Int @ 1.04MW & 4580 ppm Cu						1.051	1.9	1.10	<5	125	865	3.45	3	70	13	4634	>10	<10	0.99	643	13	0.05	113	340	24	<5	<20	89	0.12	<10	9	<10	<1	63
RT08-S1	7R127242	243.2	244.2	1.0	Eco Tech	AK08-8506	0.017	<0.2	5.05	25	25	20	8.97	<1	8	37	33	3.56	20	0.83	1568	<1	0.17	15	260	44	<5	<20	383	0.05	<10	25	<10	2	84	
RT08-S1	7R127243	244.2	245.2	1.0	Eco Tech	AK08-8506	0.007	<0.2	5.08	30	10	10	6.28	<1	5	32	21	2.14	20	0.49	1025	<1	0.25	13	340	48	<5	<20	323	0.05	<10	18	<10	1	58	
RT08-S1	7R127244	245.2	246.2	1.0	Eco Tech	AK08-8506	0.019	<0.2	5.73	40	35	10	4.83	<1	7	63	19	2.06	30	0.62	565	1	0.37	17	370	56	5	<20	464	0.06	<10	27	<10	2	61	
RT08-S1	7R127245	246.2	247.2	1.0	Eco Tech	AK08-8506	0.035	<0.2	5.97	45	50	30	4.45	<1	8	56	42	1.05	30	0.48	162	1	0.36	20	350	62	<5	<20	475	0.06	<10	25	<10	2	52	
RT08-S1	7R127246	247.2	248.5	1.3	Eco Tech	AK08-8506	0.007	<0.2	6.31	35	135	55	4.08	<1	21	75	120	4.29	20	0.91	307	2	0.35	38	340	64	5	<20	466	0.09	<10	45	<10	1	72	
RT08-S1	7R127247	273.7	274.7	1.0	Eco Tech	AK08-8506	<0.001	<0.2	1.61	10	115	15	1.10	<1	9	74	25	3.13	20	0.80	451	1	0.12	4	730	20	<5	<20	20	0.14	<10	65	<10	7	56	
RT08-S1	7R127248	274.7	275.7	1.0	Eco Tech	AK08-8506	0.045	<0.2	2.27	<5	70	50	7.35	<1	17	58	350	8.63	<10	1.54	1268	3	0.04	18	760	24	<5	<20	82	0.07	<10	64	<10	<1	49	
RT08-S1	7R127249	275.7	276.8	1.0	Eco Tech	AK08-8506	0.093	<0.2	2.77	15	110	35	>10	<1	4	46	40	3.02	<10	1.51	1510	2	0.11	8	2240	26	10	<20	428	0.05	<10	61	<10	<1	43	
RT08-S1	7R127250	276.8	278.1	1.3	Eco Tech	AK08-8506	1.028	0.7	3.84	<5	80	375	4.62	<1	18	45	824	9.99	<10	1.13	990	4	0.11	24	440	38	<5	<20	210	0.06	<10	60	<10	<1	101	
RT08-S1	7R127251	288.1	289.6	1.5	Eco Tech	AK08-8506	0.054	0.3	1.30	2510	35	75	8.92	<1	12	47	125	5.26	<10	0.87	1540	10	0.01	44	1280	36	<5	<20	189	0.03	<10	124	<10	6	117	
RT08-S1	7R127270	289.6	291.1	1.5	Eco Tech	AK08-8506	0.006	<0.2	0.79	145	40	10	7.87	<1	13	52	70	3.90	<10	0.74	1079	17	<0.01	63	630	14	<5	<20	175	0.02	<10	137	<10	6	68	
RT08-S1	7R127252	291.1	292.6	1.5	Eco Tech	AK08-8506	0.002	<0.2	0.78	5	45	<5	1.41	<1	16	60	83	3.69	<10	0.31	111	19	<0.01	65	210	18	<5	<20	36	0.01	<10	29	<10	2	51	
RT08-S1	7R127253	292.6	293.6	1.0	Eco Tech	AK08-8506	0.001	<0.2	1.04	<5	60	<5	2.42	<1	15	64	70	3.72	<10	0.41	202	24	<0.01	70	550	20	<5	<20	41	0.02	<10	81	<10	5	66	
RT08-S1	7R127254	293.6	295.1	1.5	Eco Tech	AK08-8506	0.354	<0.2	5.46	<5	80	215	4.75	1	18	70	328	9.93	<10	1.24	1114	9	0.29	35	900	50	<5	<20	263	0.09	<10	115	<10	<1	121	
RT08-S1	7R127255	295.1	296.1	1.0	Eco Tech	AK08-8506	1.090	1.2	5.06	<5	95	510	1.27	2	31	67	1375	>10	<10	2.40	936	5	0.06	29	350	50	<5	<20	53	0.17	<10	91	<10	<1	173	
RT08-S1	7R127256	296.1	297.1	1.0	Eco Tech	AK08-8506	1.526	0.8	4.30	<5	90	250	1.97	2	30	67	1380	>10	<10	1.88	904	7	0.06	31	590	48	<5	<20	54	0.15	<10	96	<10	<1	157	
RT08-S1	7R127257	Int @ 1.04MW & 4580 ppm Cu						1.048	1.9	1.09	<5	120	875	3.31	3	68	13	4608	>10	<10	0.99	641	10	0.05	112	350	22	<5	<20	84	0.13	<10	9	<10	<1	64
RT08-S1	7R127258	297.1	298.0	0.9	Eco Tech	AK08-8506	0.361	<0.2	5.88	<5	85	50	4.33	<1	15	54	304	9.89	<10	1.26	848	7	0.18	21	530	52	<5	<20	258	0.06	<10	69	<10	<1	132	
RT08-S1	7R127259	298.0	299.5	1.5	Eco Tech	AK08-8506	0.034	<0.2	7.10	50	60	10	5.04	<1	11	69	64	2.68	30	0.69	212	3	0.50	24	530	78	<5	<20	412	0.09	<10	33	<10	3	55	
RT08-S1	7R127260	299.5	301.0	1.5	Eco Tech	AK08-8506	0.009	<0.2	5.62	40	45	5	5.34	<1	14	81	54	3.30	30	0.91	214	2	0.42	26	630	60	<5	<20	342	0.08	<10	40	<10	3	78	
RT08-S1	7R127261	301.0	302.1	1.5	Eco Tech	AK08-8506	0.017	<0.2	5.14	35	70	10	3.12	<1	11	88	52	3.12	30	0.46	25	3140	34	0.02	24	340	62	<5	<20	450	0.11	<10	44	<10	<1	57
RT08-S1	7R127262	302.5	304.0	1.5	Eco Tech	AK08-8506	0.004	<0.2	5.82	45	50	5	3.83	<1	12	76	30	2.42	30	0.73	195	1	0.50	26	540	62	10	<20	348	0.09	<10	40	<10	3	75	
RT08-S1	7R127263	304.0	305.0	1.0	Eco Tech	AK08-8506	0.021	<0.2	6.67	55	55	35	5.06	<1	6	48	35	1.56	30	0.38	159	<1	0.35	13	490	74	5	<20	437	0.07	<10	19	<10	3	97	
RT08-S1	7R127264	305.0	306.5	1.5	Eco Tech	AK08-8506	0.011	<0.2	6.11	40	70	10	3.87	<1	15	85	46	3.27	30	0.94	207	6	0.49	34	880	64	<5	<20	268	0.11	<10	49	<10	3	68	
RT08-S1	7R127265	306.5	308.0	1.5	Eco Tech	AK08-8506	0.001	<0.2	5.96	35	150	10	3.37	<1	17	94	28	4.19	30	1.42	294	1	0.36	34	470	62	<5	<20	202	0.13	<10	64	<10	2	70	
RT08-S1	7R127266	308.0	309.5	1.5	Eco Tech	AK08-8506	<0.001	<0.2	6.15	25	275	20	2.50	<1	21	120	38	5.26	<10	1.73	381	2	0.36	43	360	66	10	<20	180	0.18	<10	83	<10	<1	68	
RT08-S1	7R127267	309.5	311.0	1.0	Eco Tech	AK08-8506	0.001	<0.2	5.30	35	180	15	3.08	<1	16	95	51	3.77	20	1.34	215	2	0.52	21	1380	34	5	<20	150	0.11	<10	44	<10	<1	53	
RT08-S1	7R127268	311.0	312.3	1.2	Eco Tech	AK08-8506	0.003	<0.2	1.23	<5	90	25	2.94	<1	6	112	46	2.59	<10	0.30	213	30	0.10	10	>10000	18	<5	<20	60	0.03	<10	17	<10	2	17	
RT08-S1	7R127269	312.3	313.3	1.0	Eco Tech	AK08-8506	0.442	0.4	3.75	<5	90	165	3.23	2	40	51	583	>10	<10	0.45	311	18	0.19	47	5430	44	<5	<20	115	0.09	<10	30	<10	<1	51	
RT08-S1	7R127271	313.3	314.5	1.2	Eco Tech	AK08-8506	0.124	0.2	6.01	35	30	100	5.15	<1	10	41	281	5.00	10	0.24	336	2	0.21	13	2480	64	<5	<20	288	0.04	<10	14	<10	<1	47	
RT08-S1	7R127272	314.5	316.0	1.5	Eco Tech	AK08-8506	0.005	<0.2	6.18	50	20	5	5.22	<1	5	40	35	1.45	20	0.15	199	<1	0.19	9	860	70	<5	<20	348	0.05	<10	14	<10	2	57	
RT08-S1	7R127273	316.0	317.5	1.5	Eco Tech	AK08-8506	0.022	<0.2	5.06	<5	70	15	5.06	<1	6	47	27	1.90	20	0.35	307	2	0.22	18	2040	38	<5	<20	280	0.06	<10	24	<10	3	58	
RT08-S1	7R127274	Int @ 1.04MW & 4580 ppm Cu						1.042	1.9	1.09	<5	120	855	3.41	4	71	12	4603	>10	<10	1.02	642	10	0.05	113	330	26	<5	<20	86	0.12	<10	9	<10	<1	63
RT08-S1	7R127275	317.5	318.7	1.2	Eco Tech	AK08-8506	0.011	<0.2	4.94	30	40	10	4.48	<1	9	34	96	3.32	20	0.20	279															

Appendix D: 2008 Rescan Environmental Water Quality Sampling Report



Refer To File No. Risby DRINKING WATER

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August 14, 2008

**Mr. Mark Nelson
Nicholson & Associates
Suite 302 - 675 West Hastings St.
Vancouver, BC V6B 1N2**

Dear Mark:

Re: Drinking Water Analysis and Cirque stream Water Quality Results for Risby Camp, Yukon

Background

Risby Camp is a small 10 to 15 person camp located at UTM 584900E, 686200N (NAD 83 Zone 8) in Yukon. A drinking water source is pumped from a small nearby lake into a large storage tank with a tap. Currently there is no treatment system set up for the drinking water however there is a 5 micron filter on the hose before the water enters the storage tanks. To determine if the lake water is a potable water source for Risby Camp, water samples were collected and screened against existing drinking water guidelines set by Health Canada (2007). The lake also serves as a docking area for float plane access thus hydrocarbons were analysed in addition to the physical parameters, dissolved anions, total metals and bacteriological analysis. Sampling included the water at the lake source to provide initial information on water quality and any potential issues that may indicate that water treatment is required to ensure contamination is not occurring when water is pumped into the tank.

Methods

Water samples were collected from two locations on June 11, 2008. One surface water sample was collected from the lake source at the location where water was being pumped to the storage tank. A second water sample was collected from the storage tank tap. Prior to filling the bottles from the storage tank, the faucet was run for 3 to 5 minutes and the faucet was cleaned with a dilute bleach solution. For each sample, the bottles and cap were triple-rinsed prior to filling. Preservatives were added for total metals (nitric acid). No bacteriological analysis was completed because samples could not be received by the laboratory before expiring (there is a maximum 48 hour hold time for bacteriological samples). All water samples were sent to ALS Environmental (Vancouver, BC) for analysis. The results of the analysis for general parameters and total metals were compared to Health Canada Guidelines for Canadian



Drinking Water Quality. Analysis of hydrocarbons was also completed on the drinking water samples because the lake is also accessible to float planes.

On July 6, 2008 duplicate drinking water samples were collected from the lake source and holding tank using the same methods as described above. In addition to general parameters and total metals, bacteriological samples also were collected. Preservative (sodium thiosulfate) was added to bacteriological sample bottles prior to collection. Holding time for drinking water bacteriological samples is less than 48 hours, so samples were rushed immediately to the analytical laboratory (ALS Environmental).

A single grab sample also was collected from the Cirque Stream (UTM 585494E, 6860161N NAD83 Zone 8) on June 13, 2008 and duplicate grab samples were collected on July 6, 2008. The water was collected into clean bottles while standing downstream of the collection area and all bottles and caps were triple-rinsed prior to filling each bottle. Preservatives were added for total metals (ultra-pure nitric acid), total organic carbon (hydrochloric acid) and total Kjeldahl Nitrogen (sulphuric acid). CCME guidelines for the protection of aquatic life (2006) and B.C. guidelines (BCMWLAP 2001, 2005) for total metals were used to screen general parameter, anion, nutrient and total metal concentrations.

A separate set of bottles for field and travel blanks were included as part of the field QA/QC program on both sampling dates. The travel blank bottles were filled with distilled deionized water in the lab and remained closed throughout the field trip. This allowed assessment of contamination associated with the lab procedures. The field blank bottles were also filled with distilled deionized water, but were opened in the field and preserved as required for certain analyses. This allowed assessment of contamination associated with field sampling (airborne contamination, contamination of the lid/bottle, *etc.*) and preservation procedures.

Results

Drinking Water

Samples at the lake source and storage tank had no nutrient or metal concentrations that exceeded drinking water guidelines, indicating that this water source is fairly pristine chemically (Table 1a). Bacteriological results suggest that although the lake water does have total coliform counts greater than guideline (guideline = 0 MPN/100 mL; lake source = 12.5 MPN/100 mL, MPN= most probable number) both holding tank samples had total coliform counts less than the analytical detection limit. In addition no *Escherichia coli* was present in detectable concentrations in either the lake source or the holding tank. According to Health Canada Guidelines for Canadian Drinking Water Quality, coliform counts should be 0 MPN/100 mL. Coliforms are rod-shaped, gram negative bacteria and indicate pathogenic organisms may be present in the water.

Water from the lake source and holding tank was also analysed for Polycyclic Aromatic Hydrocarbons (PAHs) and petroleum hydrocarbons that include both Light Extractable Petroleum Hydrocarbons (LPEH; number of carbons C1-C19) and Heavy Extractable Petroleum Hydrocarbons (HPEH; number of carbons C19-C32). The results indicate that the concentrations were below detection limit for all PAH parameters, LPEH and HPEH analyzed in water samples at the lake source (Table 1b). There are no Health Canada guidelines for total

Table 1a
Drinking Water Quality Data and Guideline Screening at Risby Camp, 2008

Sample ID Date Sampled Replicate	Units	Detection Limit	Lake Source 11-Jun-08 1	Holding Tank 11-Jun-08 1	Lake Source 6-Jul-08 1	Lake Source 6-Jul-08 2	Holding Tank 6-Jul-08 1	Holding Tank 6-Jul-08 2	Health Canada Guideline	Basis of Guideline ^a
Physical Tests										
Colour, True	CU	5	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	≤ 15	AO
Conductivity	uS/cm	2	200	220	189	190	188	188	-	-
Hardness (as CaCO ₃)	mg/L	0.7	95.7	108	85.1	84.0	85.7	89.8	-	-
pH	pH	0.01	7.99	8.13	8.16	8.17	8.17	8.14	6.5 - 8.5	AO
Total Dissolved Solids	mg/L	10	120	131	114	118	115	116	500	AO
Turbidity	NTU	0.1	0.51	0.76	0.51	0.52	0.14	0.15	1	MAC
Anions and Nutrients										
Alkalinity, Total (as CaCO ₃)	mg/L	2	80.4	90.6	73.6	67.8	69.4	71.5	-	-
Bromide (Br)	mg/L	0.05	<0.050	<0.050	-	-	-	-	-	-
Chloride (Cl)	mg/L	0.5	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	≤ 250	AO
Fluoride (F)	mg/L	0.02	0.083	0.089	0.096	0.089	0.094	0.091	1.5	MAC
Nitrate (as N)	mg/L	0.005	0.0241	0.0176	<0.0050	<0.0050	<0.0050	<0.0050	10	MAC
Nitrite (as N)	mg/L	0.001	<0.0010	0.0011	<0.0010	<0.0010	<0.0010	<0.0010	1	-
Sulfate (SO ₄)	mg/L	0.5	20.5	22.2	20.4	20.4	20.1	20.1	500	AO
Bacteriological Tests										
E. coli	MPN/100 mL	-	-	-	<1	<1	<1	<1	0	MAC
Coliform Bacteria - Total	MPN/100 mL	-	-	-	12	11	<1	<1	0	MAC
Total Metals										
Aluminum (Al)	mg/L	0.01	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	0.1	MAC
Antimony (Sb)	mg/L	0.0005	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050	0.006	MAC
Arsenic (As)	mg/L	0.0001	0.00336	0.00351	0.00367	0.00353	0.00308	0.00317	0.010	MAC
Barium (Ba)	mg/L	0.02	0.029	0.03	0.025	0.025	0.022	0.023	1.0	MAC
Boron (B)	mg/L	0.1	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	5	MAC
Cadmium (Cd)	mg/L	0.0002	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	0.005	MAC
Calcium (Ca)	mg/L	0.1	34.5	38.9	30.8	30.4	31.1	32.7	-	-
Chromium (Cr)	mg/L	0.002	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	0.05	MAC
Copper (Cu)	mg/L	0.001	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	≤ 1.0	AO
Iron (Fe)	mg/L	0.03	0.036	0.041	<0.030	<0.030	<0.030	<0.030	≤ 0.3	AO
Lead (Pb)	mg/L	0.0005	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050	0.010	MAC
Magnesium (Mg)	mg/L	0.1	2.32	2.56	1.99	1.96	1.97	2.00	-	-
Manganese (Mn)	mg/L	0.002	0.01	0.0156	0.0057	0.0057	<0.0020	<0.0020	≤ 0.05	AO
Mercury (Hg)	mg/L	0.0002	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	0.001	MAC
Potassium (K)	mg/L	0.1	1.05	1.16	0.98	0.97	0.99	1.04	-	-
Selenium (Se)	mg/L	0.001	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	0.01	MAC
Sodium (Na)	mg/L	2	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	≤ 200	AO
Uranium (U)	mg/L	0.0001	0.00096	0.00106	0.00085	0.00085	0.00087	0.00088	0.02	MAC
Zinc (Zn)	mg/L	0.05	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	≤ 5.0	AO

^aMAC= Maximum Acceptable Concentration, AO= Aesthetic Objective.

< indicates the value is less than the detection limit indicated.

Dashes indicate data is not available.

Bolded and outlined values are greater than guideline value.

Table 1b
Drinking Water Quality Data and Guideline Screening at Risby Camp

Sample ID Date Sampled Replicate	Units	Detection Limit	Lake Source 11-Jun-08 1	Holding Tank 11-Jun-08 1	Lake Source 6-Jul-08 1	Holding Tank 6-Jul-08 2	Holding Tank 6-Jul-08 1	Holding Tank 6-Jul-08 2	Health Canada Guideline	Basis of Guideline ^a
Extractable Hydrocarbons										
EPH10-19	mg/L	0.25	<0.25	-	<0.25	<0.25	<0.25	<0.25	-	-
EPH19-32	mg/L	0.25	<0.25	-	<0.25	<0.25	<0.25	<0.25	-	-
LEPH	mg/L	0.25	<0.25	-	<0.25	<0.25	<0.25	<0.25	-	-
HEPH	mg/L	0.25	<0.25	-	<0.25	<0.25	<0.25	<0.25	-	-
Polycyclic Aromatic Hydrocarbons										
Acenaphthene	mg/L	0.00005	<0.000050	-	<0.000050	<0.000050	<0.000050	<0.000050	-	-
Acenaphthylene	mg/L	0.00005	<0.000050	-	<0.000050	<0.000050	<0.000050	<0.000050	-	-
Acridine	mg/L	0.00005	<0.000050	-	<0.000050	<0.000050	<0.000050	<0.000050	-	-
Anthracene	mg/L	0.00005	<0.000050	-	<0.000050	<0.000050	<0.000050	<0.000050	-	-
Benz(a)anthracene	mg/L	0.00005	<0.000050	-	<0.000050	<0.000050	<0.000050	<0.000050	-	-
Benzo(a)pyrene	mg/L	0.00001	<0.000010	-	<0.000010	<0.000010	<0.000010	<0.000010	0.00001	MAC
Benzo(b)fluoranthene	mg/L	0.00005	<0.000050	-	<0.000050	<0.000050	<0.000050	<0.000050	-	-
Benzo(g,h,i)perylene	mg/L	0.00005	<0.000050	-	<0.000050	<0.000050	<0.000050	<0.000050	-	-
Benzo(k)fluoranthene	mg/L	0.00005	<0.000050	-	<0.000050	<0.000050	<0.000050	<0.000050	-	-
Chrysene	mg/L	0.00005	<0.000050	-	<0.000050	<0.000050	<0.000050	<0.000050	-	-
Dibenz(a,h)anthracene	mg/L	0.00005	<0.000050	-	<0.000050	<0.000050	<0.000050	<0.000050	-	-
Fluoranthene	mg/L	0.00005	<0.000050	-	<0.000050	<0.000050	<0.000050	<0.000050	-	-
Fluorene	mg/L	0.00005	<0.000050	-	<0.000050	<0.000050	<0.000050	<0.000050	-	-
Indeno(1,2,3-c,d)pyrene	mg/L	0.00005	<0.000050	-	<0.000050	<0.000050	<0.000050	<0.000050	-	-
Naphthalene	mg/L	0.00005	<0.000050	-	<0.000050	<0.000050	<0.000050	<0.000050	-	-
Phenanthrene	mg/L	0.00005	<0.000050	-	<0.000050	<0.000050	<0.000050	<0.000050	-	-
Pyrene	mg/L	0.00005	<0.000050	-	<0.000050	<0.000050	<0.000050	<0.000050	-	-
Quinoline	mg/L	0.00005	<0.000050	-	<0.000050	<0.000050	<0.000050	<0.000050	-	-

^aMAC= Maximum Acceptable Concentration, AO= Aesthetic Objective.

< indicates the value is less than the detection limit indicated.

Dashes indicate data is not available.

petroleum hydrocarbons or the majority of PAHs in water however Benzo(a)pyrene has been classified as being probably carcinogenic to humans and is the only PAH for which there is sufficient toxicological evidence for a guideline. At the lake source, the Benzo(a)pyrene concentration was less than the maximum acceptable concentration (0.00001 mg/L) set by Health Canada. Laboratory (ALS Environmental) efficiency at extracting PAHs from the samples was determined by the ability to extract surrogate compounds (*e.g.* d10-Acenaphthene) from the sample. The efficiency of recovery of the target analytes varied between 82% and 97%.

Cirque Stream Water

Water quality analysis of the Cirque stream water indicates the water was turbid (36.1 NTU) but pristine chemically (Table 2a and 2b). For both June and July water samples there were no physical parameter (pH, total suspended solids and turbidity) concentrations that exceeded the CCME or BC guidelines. Total suspended solids (TSS) were fairly high in June (> 50 mg/L) which suggest some particulate loadings into streams from terrestrial habitat. This could be as a result of high flow rates, inadequate riparian cover or bank erosion. In addition both total dissolved solids and turbidity was high, also likely due to high flow and erosion during freshet. In July both Cirque stream water samples indicated that TSS was less than the analytical detection limit and both total dissolved solids and turbidity were less than that detected in the June sample.

All anions and nutrient concentrations with guidelines also were below the guideline values. Ammonia (as nitrogen), bromide, chloride and nitrite (as nitrogen) concentrations in the Cirque stream were below the analytical detection limit. Oxidation of sulphide minerals in exposed mineralized terrain relates to increased sulfate loadings to surface flows. This process may be related to the relatively high sulfate concentrations (59.2 mg/L) in June from the Cirque stream. However this was below the B.C. Maximum water quality guideline (100 mg/L). Sulfate concentrations in July were less (16.1 mg/L).

All total metal concentrations measured in the Cirque stream water sample were below the guideline values where available in June and July except for iron and aluminum concentrations in July. Average iron concentration of the two Cirque stream samples was 0.64 mg/L) and the CCME as well as the BC guideline is 0.3 mg/L. The CCME guideline value for aluminum is 0.1 mg/L (at pH > 6.5) and the average aluminum concentration of the Cirque stream samples was 0.82 mg/L. Further sampling (both this year and subsequent years) at the Cirque stream and surround streams should provide some indication as to if aluminum and iron concentrations are consistently high from year to year and if concentrations are similar site-wide. Several metals concentration in the samples collected in June and July were below the analytical detection limits, including antimony, beryllium, bismuth, cadmium, cobalt (june only), lead (june only), lithium, mercury, nickel (june only), phosphorus, silver, thallium, tin (july only), titanium (june only), tungsten and zinc (june only).

All analytes in field and travel QA/QC blanks are reported in Appendix 1. All concentrations were below the analytical detection limits in both field and travel blank except for acidity (less than 5 times the detection limit). This indicates there was no contamination either during the sampling protocol or during transit.

Table 2a
Summary of Stream Water Quality for Cirque Stream near Risby Camp, June and July 2008

Date Sampled Replicate	Units	DL	Cirque Stream 20 June 1	Cirque Stream 6 July 1	Cirque Stream 6 July 2	CCME Guideline	BC guidelines	
							Max	30-d mean
Physical Tests								
Colour	CU	5	<5.0	<5.0	<5.0			< 80% light transmission
Conductivity	uS/cm	2	223	89.6	89.2	-		
Hardness (as CaCO3)	mg/L	0.5	103	43.4	43.6	-		
pH	pH	0.01	7.81	7.54	7.60	6.5 - 9.0		6.5 - 9.0
Total Suspended Solids	mg/L	3	67.8	<3.0	<3.0	25 above background	C	C
Total Dissolved Solids	mg/L	10	159	30	18			
Turbidity	NTU	0.1	36.1	14.2	12.4	-	C	C
Anions and Nutrients								
Acidity (as CaCO3)	mg/L	1	4.1	1.7	1.5			
Alkalinity, Total (as CaCO3)	mg/L	2	46.5	24.5	23.9			
Ammonia as N	mg/L	0.02	<0.020	<0.020	<0.020	A	A	A
Bromide (Br)	mg/L	0.05	<0.050	<0.050	<0.050	-		
Chloride (Cl)	mg/L	0.5	<0.50	<0.50	<0.50	-	600	
Fluoride (F)	mg/L	0.02	0.574	0.368	0.369	-	C	
Nitrate (as N)	mg/L	0.005	0.166	0.0384	0.0392	2.9	200	≤40
Nitrite (as N)	mg/L	0.001	<0.0010	<0.0010	<0.0010	0.06	E	E
Total Kjeldahl Nitrogen	mg/L	0.05	0.149	<0.050	0.079	-		
Total Nitrogen	mg/L	0.05	0.17	<0.05	<0.05	-		
Total Phosphate as P	mg/L	0.002	0.0461	0.0305	0.0266	B		
Sulfate (SO4)	mg/L	0.5	59.2	16.1	16.2	-	100, 50 D	
Organic / Inorganic Carbon								
Total Organic Carbon	mg/L	0.5	0.8	<0.50	0.59	-		±20% background

< indicates the value is less than the detection limit.

A: CCME Guideline (2000) for ammonia (mg/L):

Temperature (°C)	pH				
	6	6.5	7	7.5	8
0	231	73	23.1	7.32	2.33
5	153	48.3	15.3	4.84	1.54
10	102	32.4	10.3	3.26	1.04
15	69.7	22	6.98	2.22	0.715
20	48	15.2	4.82	1.54	0.499

B: Canadian Trigger Ranges for Total Phosphorus (mg/L):

ultra-oligotrophic	< .004
oligotrophic	0.004 - 0.010
mesotrophic	0.010 - 0.020
meso-eutrophic	0.020 - 0.035
eutrophic	0.035 - 0.100
hyper-eutrophic	> 0.100

C: depends on background

for TSS: if background ≤25 mg/L, then max 25 mg/L increase in 24 h, and a mean increase of 5 mg/L over 30 d. If background 25-250 mg/L, then max increase of 25 mg/L.

if background >250 mg/L, then max 10% increase.

for turbidity: if background <8 NTU, then max 8 NTU increase in 24 h, and a mean increase of 2 mg/L in 30d. If background 8-80 NTU, then max increase of 8 NTU.

if background >80 NTU, then max 10% increase.

for fluoride: 0.3 mg/L max for hardness 50 mg/L CaCO₃ or higher, 0.2 mg/L max F for hardness <50 mg/L CaCO₃.

D: alert to monitor aquatic moss populations.

E: Nitrite BC Max 0.06 mg/L and 30 d mean 0.02 mg/L for Cl<2mg/L. BC Max nitrite 0.12 mg/L and 30 d mean 0.04 mg/L for Cl 2-4 mg/L.

Table 2b
Summary of Stream Water Quality for Cirque Stream near Risby Camp, June and July 2008

	Units	DL	Cirque Stream 20 June 1	Cirque Stream 6 July 1	Cirque Stream 6 July 2		BC guidelines	
Date Replicate						CCME Guideline	Max	30-d mean
Total Metals								
Aluminum (Al)-Total	mg/L	0.001	0.0073	0.731	0.872	0.1 A	-	-
Antimony (Sb)-Total	mg/L	0.0001	<0.00010	<0.00010	<0.00010	-	0.02 B	-
Arsenic (As)-Total	mg/L	0.00003	0.000365	0.000915	0.000998	0.005	0.005 B	1 B
Barium (Ba)-Total	mg/L	0.00005	0.00695	0.00750	0.00795	-	5 B	0.0053 B
Beryllium (Be)-Total	mg/L	0.0002	<0.00020	<0.00020	<0.00020	-	-	-
Bismuth (Bi)-Total	mg/L	0.0005	<0.00050	<0.00050	<0.00050	-	-	-
Boron (B)-Total	mg/L	0.001	0.0018	<0.0010	<0.0010	-	1.2	-
Cadmium (Cd)-Total	mg/L	0.000017	<0.000017	<0.000017	<0.000017	A	A, B	-
Calcium (Ca)-Total	mg/L	0.02	35.3	14.9	14.9	-	-	-
Chromium (Cr)-Total	mg/L	0.0001	0.00024	0.00083	0.00106	A	0.001 B	-
Cobalt (Co)-Total	mg/L	0.0001	<0.00010	0.00049	0.00055	-	0.110	0.004
Copper (Cu)-Total	mg/L	0.0001	0.00014	0.00168	0.00199	A	C	C
Iron (Fe)-Total	mg/L	0.01	<0.010	0.560	0.719	0.3	0.3 B	-
Lead (Pb)-Total	mg/L	0.00005	<0.000050	0.000309	0.000326	A	D	D
Lithium (Li)-Total	mg/L	0.005	<0.0050	<0.0050	<0.0050	-	5 B	-
Magnesium (Mg)-Total	mg/L	0.005	3.65	1.51	1.55	-	-	-
Manganese (Mn)-Total	mg/L	0.00005	0.00008	0.0162	0.0170	-	E	E
Mercury (Hg)-Total	mg/L	0.00001	<0.000010	<0.000010	<0.000010	0.000026 A	0.0001	0.00002
Molybdenum (Mo)-Total	mg/L	0.00005	0.00238	0.000815	0.000856	0.073	2	1
Nickel (Ni)-Total	mg/L	0.0001	<0.00010	0.00086	0.00101	A	A, B	-
Phosphorus (P)-Total	mg/L	0.3	<0.30	<0.30	<0.30	-	-	-
Potassium (K)-Total	mg/L	0.05	0.928	0.625	0.629	-	-	-
Selenium (Se)-Total	mg/L	0.0001	0.00039	0.00017	0.00016	0.001	-	0.002
Silicon (Si)-Total	mg/L	0.05	2.35	2.44	2.68	-	-	-
Silver (Ag)-Total	mg/L	0.00001	<0.000010	<0.000010	<0.000010	0.000100	F	F
Sodium (Na)-Total	mg/L	0.01	1.52	0.583	0.582	-	-	-
Strontium (Sr)-Total	mg/L	0.0001	0.0744	0.0345	0.0351	-	-	-
Thallium (Tl)-Total	mg/L	0.0001	<0.00010	<0.00010	<0.00010	0.0008	0.0003 B	-
Tin (Sn)-Total	mg/L	0.0001	0.00023	<0.00010	<0.00010	-	-	-
Titanium (Ti)-Total	mg/L	0.01	<0.010	0.021	0.028	-	0.1 B	-
Tungsten (W)-Total	mg/L	0.5	<0.50	<0.50	<0.50	-	-	-
Uranium (U)-Total	mg/L	0.00001	0.000701	0.000561	0.000570	-	0.3 B	-
Vanadium (V)-Total	mg/L	0.00005	0.000088	0.000994	0.00124	-	-	-
Zinc (Zn)-Total	mg/L	0.001	<0.0010	0.0025	0.0028	0.0300	G	G

Dashes indicated data not available.

Bolded and outlined values are greater than guideline value.

A: depends on background, CCME guideline:

for aluminum: pH>6.5

for cadmium guideline = $0.001 * 10^{(0.86[\log(\text{hardness})] - 3.2)}$ mg/L

for chromium guideline = 0.001 mg/L (Cr VI), or 0.0089 (Cr III) - interim

for copper: CCME = 0.002 mg/L at 0-120 mg/L [CaCO₃], 0.003mg/L at 120 - 180 mg/L [CaCO₃], 0.004 mg/L at > 180 mg/L [CaCO₃]

for lead = 0.001 mg/L for [CaCO₃]=0-60 mg/L, 0.002 mg/L for [CaCO₃]=60-120 mg/L, 0.004 mg/L for [CaCO₃]=120-180 mg/L, 0.007 mg/L for [CaCO₃] >180 mg/L

for mercury, inorganic fraction

for nickel: both BC and CCME guideline = 0.025 mg/L at 0-60 mg/L [CaCO₃], 0.065mg/L at 60 - 120 mg/L [CaCO₃], 0.110 mg/L at 120 - 180 mg/L [CaCO₃], 0.150 mg/L at > 180 mg/L [CaCO₃]

B: Working BC guideline.

C: Max. Cu guideline of $(0.094(\text{hardness}+2)) \mu\text{g/L}$. The 30-d mean Cu guideline is $\leq 2 \mu\text{g/L}$ for hardness $\leq 50 \text{ mg/L}$, and guideline is $\leq 0.04 * (\text{mean hardness}) \mu\text{g/L}$ for hardness > 50mg/L

D: Max Pb guideline of $e^{(1.273 \ln(\text{hardness}) - 1.460)}$ if hardness > 8mg/L; 0.003 mg Pb/L if hardness $\leq 8 \text{ mg/L}$. 30-day mean Pb guideline of $53.31 + e^{(1.273 \ln(\text{mean hardness}) - 4.704)}$ for hardness > 8mg/L only; otherwise no 30

E: BC Max Mn guideline $0.01102(\text{hardness})+0.54 \text{ mg/L}$; 30-day mean Mn guideline $0.0044(\text{mean hardness})+0.605 \text{ mg/L}$

F: for silver: BC Max = 0.003 mg/L if hardness > 100mg/L, Max= 0.0001mg/L if hardness < 100mg/L, BC 30-d Mean = 0.0015 mg/L if hardness > 100mg/L, Mean= 0.00005 mg/L if hardness < 100mg/L

G: Max Zn guideline = $[33 + 0.75 * (\text{hardness} - 90)] \text{ ug/L}$, minimum of 33 ug/L. 30-day mean Zn guideline = $[7.5 + 0.75 * (\text{hardness} - 90)] \text{ ug/L}$, min of 7.5 ug/L

Appendix 1

Field and Travel Blanks Quality Assurance/ Quality Control for Cirque Stream Water Quality Data of Risby Project, 2008

Sample ID Date	Units	Detection Limit	Travel Blank 11 June	Field Blank 11 June	Travel Blank 6 July	Field Blank 6 July
Physical Tests						
Colour, True	CU	5	<5.0	<5.0	<5.0	<5.0
Conductivity	uS/cm	2	<2.0	<2.0	<2.0	<2.0
Hardness (as CaCO3)	mg/L	0.5	<0.50	<0.50	<0.50	<0.50
pH	pH	0.01	5.56	5.49	5.53	5.51
Total Suspended Solids	mg/L	3	<3.0	<3.0	<3.0	<3.0
Total Dissolved Solids	mg/L	10	<10	<10	<10	<10
Turbidity	NTU	0.1	<0.10	<0.10	<0.10	<0.10
Anions and Nutrients						
Acidity (as CaCO3)	mg/L	1	1.6	1.6	1.0	1.1
Alkalinity, Total (as CaCO3)	mg/L	2	<2.0	<2.0	<2.0	<2.0
Ammonia as N	mg/L	0.02	<0.020	<0.020	<0.020	<0.020
Bromide (Br)	mg/L	0.05	<0.050	<0.050	<0.050	<0.050
Chloride (Cl)	mg/L	0.5	<0.50	<0.50	<0.50	<0.50
Fluoride (F)	mg/L	0.02	<0.020	<0.020	<0.020	<0.020
Nitrate (as N)	mg/L	0.005	<0.0050	<0.0050	<0.0050	<0.0050
Nitrite (as N)	mg/L	0.001	<0.0010	<0.0010	<0.0010	<0.0010
Total Kjeldahl Nitrogen	mg/L	0.05	<0.050	<0.050	<0.050	<0.050
Total Nitrogen	mg/L	0.05	<0.05	<0.05	<0.05	<0.05
Total Phosphate as P	mg/L	0.002	<0.0020	<0.0020	<0.0020	<0.0020
Sulfate (SO4)	mg/L	0.5	<0.50	<0.50	<0.50	<0.50
Organic / Inorganic Carbon						
Total Organic Carbon	mg/L	0.5	<0.50	<0.50	<0.50	<0.50
Total Metals						
Aluminum (Al)-Total	mg/L	0.001	<0.0010	<0.0010	<0.0010	<0.0010
Antimony (Sb)-Total	mg/L	0.0001	<0.00010	<0.00010	<0.00010	<0.00010
Arsenic (As)-Total	mg/L	0.00003	<0.000030	<0.000030	<0.000030	<0.000030
Barium (Ba)-Total	mg/L	0.00005	<0.000050	<0.000050	<0.000050	<0.000050
Beryllium (Be)-Total	mg/L	0.0002	<0.00020	<0.00020	<0.00020	<0.00020
Bismuth (Bi)-Total	mg/L	0.0005	<0.00050	<0.00050	<0.00050	<0.00050
Boron (B)-Total	mg/L	0.001	<0.0010	<0.0010	<0.0010	<0.0010
Cadmium (Cd)-Total	mg/L	0.000017	<0.000017	<0.000017	<0.000017	<0.000017
Calcium (Ca)-Total	mg/L	0.02	<0.020	<0.020	<0.020	<0.020
Chromium (Cr)-Total	mg/L	0.0001	<0.00010	<0.00010	<0.00010	<0.00010
Cobalt (Co)-Total	mg/L	0.0001	<0.00010	<0.00010	<0.00010	<0.00010
Copper (Cu)-Total	mg/L	0.0001	0.00021	0.00015	<0.00010	<0.00010
Iron (Fe)-Total	mg/L	0.01	<0.010	<0.010	<0.010	<0.010
Lead (Pb)-Total	mg/L	0.00005	<0.000050	<0.000050	<0.000050	<0.000050
Lithium (Li)-Total	mg/L	0.005	<0.0050	<0.0050	<0.0050	<0.0050
Magnesium (Mg)-Total	mg/L	0.005	<0.0050	<0.0050	<0.0050	<0.0050
Manganese (Mn)-Total	mg/L	0.00005	<0.000050	<0.000050	<0.000050	<0.000050
Mercury (Hg)-Total	mg/L	0.00001	<0.000010	<0.000010	<0.000010	<0.000010
Molybdenum (Mo)-Total	mg/L	0.00005	<0.000050	<0.000050	<0.000050	<0.000050
Nickel (Ni)-Total	mg/L	0.0001	<0.00010	<0.00010	<0.00010	<0.00010
Phosphorus (P)-Total	mg/L	0.3	<0.30	<0.30	<0.30	<0.30
Potassium (K)-Total	mg/L	0.05	<0.050	<0.050	<0.050	<0.050
Selenium (Se)-Total	mg/L	0.0001	<0.00010	<0.00010	<0.00010	<0.00010
Silicon (Si)-Total	mg/L	0.05	<0.050	<0.050	<0.050	<0.050
Silver (Ag)-Total	mg/L	0.00001	<0.000010	<0.000010	<0.000010	<0.000010
Sodium (Na)-Total	mg/L	0.01	<0.010	<0.010	<0.010	<0.010
Strontium (Sr)-Total	mg/L	0.0001	<0.00010	<0.00010	<0.00010	<0.00010
Thallium (Tl)-Total	mg/L	0.0001	<0.00010	<0.00010	<0.00010	<0.00010
Tin (Sn)-Total	mg/L	0.0001	<0.00010	<0.00010	<0.00010	<0.00010
Titanium (Ti)-Total	mg/L	0.01	<0.010	<0.010	<0.010	<0.010
Tungsten (W)-Total	mg/L	0.5	<0.50	<0.50	<0.50	<0.50
Uranium (U)-Total	mg/L	0.00001	<0.000010	<0.000010	<0.000010	<0.000010
Vanadium (V)-Total	mg/L	0.00005	<0.000050	<0.000050	<0.000050	<0.000050
Zinc (Zn)-Total	mg/L	0.001	<0.0010	<0.0010	<0.0010	<0.0010

< indicates the value is less than the detection limit indicated.

Bolded and outlined values are greater than detection limit

Summary and Recommendations

Based on the results obtained from water sampling conducted on June 11, 2008 and July 6, 2008 the water at Risby Camp is suitable for drinking according to Health Canada guidelines. Although filtration appears to be working, disinfection is often recommended by the Government of Yukon and Health Canada to produce safe drinking water consistently. Chlorination of the water supply will require that free chlorine residual concentration and trihalomethanes be tested on a regular basis. Free chlorine residual concentration throughout the piped distribution system should be less than 0.2 mg/L.

An application for a permit for a small public drinking water system should be submitted to the Environmental Health Services, Government of Yukon. A health officer will determine if disinfection or further testing is required based on the results of the analyses completed this year. Application for permit to the Government of Yukon will require:

- A map showing the location of the drinking water source;
- Locations of infrastructure within 150 m of the drinking water source;
- Water quality data as outlined in this report;
- Method of treatment;
- Identification of potential users; and
- Any other information required by the health officer.

Once permits have been issued, according to the Schedule E of Small Public Drinking Water system (Government of Yukon, 2007), the sampling requirements will include:

- Bacteriological quality once a month for treated water or once every three months for untreated water;
- Chemical and physical parameters for the purpose of permitting;
- Turbidity testing on a regular basis, in particular at freshet; and
- Testing of free chlorine residuals and trihalomethanes if chlorination of the drinking water supply is completed.

References

- BCMWLAP. 2001. *A Compendium of Working Water Quality Guidelines for British Columbia*. N.K. Nagpal, L.W. Pommen, L.G. Swain. Water Management Branch, Environmental and Resource Management Department, Ministry of Water, Land and Air Protection. August 23, 2001. Refer to <http://wlapwww.gov.bc.ca/wat/wq/BCguidelines>.
- BCMWLAP. 2005. *Water Quality Guidelines (Criteria) Reports*. British Columbia Ministry of Water, Land and Air Protection. Refer to <http://wlapwww.gov.bc.ca/wat/wq/BCguidelines>.

CCME. 2006. *Canadian water quality guidelines for the protection of aquatic life: Summary table*. Updated 2006. In: *Canadian environmental quality guidelines*, 1999, Canadian Council of Ministers of the Environment, Winnipeg.

Health Canada. 2007. *Summary of Guidelines for Canadian Drinking Water Quality*. Federal-Provincial-Territorial (FPT) Committee on Drinking Water of the FPT Committee on Health and the Environment.

Government of Yukon, 2007. *Guidelines for PART 3- Small Public Drinking Water Systems*. Environmental Health Services, Government of Yukon.

Yours truly,
RESCAN[™] ENVIRONMENTAL SERVICES LTD.
per:

A handwritten signature in dark ink, appearing to be 'TR' or 'T. Robb', written in a cursive style.

Tonia Robb, Ph.D.
Aquatic Biologist

/encl.



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September 22, 2008

**Mark Nelson
Nicholson & Associates
Suite 302 675 West Hastings St.
Vancouver BC V6B 1N2**

Attention: Mark Nelson

Dear Mark

**Re: Drinking Water Analysis and Cirque Stream Water Quality Results for
Risby Camp, Yukon**

Background

Risby Camp is a small 10-15 person camp located at UTM 584900E, 686200N (NAD 83 Zone 8) in Yukon. A drinking water source is pumped from a small nearby lake into a large storage tank. Currently there is no treatment system set up for the drinking water however there is a 5 micron filter on the hose before the water enters the storage tanks. To determine if the lake water is a potable water source for Risby Camp, water samples were collected in June and July 2008 and screened against existing drinking water guidelines set by Health Canada (2007). The results suggested water at Risby Camp is suitable for drinking according to Health Canada guidelines. Disinfection of the water supply was recommended to produce safe drinking water consistently. Monthly bacteriological testing of the drinking water supply also was recommended according the Health Canada guidelines and Territorial guidelines (Government of Yukon, 2007) for a small drinking water supply.

Water samples were collected from the Cirque Stream (UTM 585494E, 6860161N NAD83 Zone 8) in June and July. Samples were analysed for general parameters, anions, nutrients and total metals and screened against CCME guidelines for the protection of aquatic life (2006) and B.C. guidelines (BCMWLAP 2001, 2005). The results suggested the water was turbid yet pristine chemically. All total metal concentrations measured in the Cirque Stream water samples were below the guideline values (where available) in June and July except for iron and aluminum concentrations in July. It was recommended to continue sampling Cirque Stream on a monthly basis (during open water) and in subsequent years to determine if trends are consistent seasonly and yearly.



Methods

Duplicate bacteriological water samples were collected from two locations on August 4, 2008. Surface water samples were collected from the lake source at the location where water was being pumped to the storage tank. A second set of duplicate water samples were collected from the storage tank tap. Prior to filling the bottles from the storage tank, the faucet was run for 3-5 minutes and the faucet was cleaned with a dilute bleach solution. Preservative (sodium thiosulfate) was added to bacteriological sample bottles prior to collection. Bacteriological samples were sent to ALS Environmental (Vancouver, BC) within 48 hours for analysis. The results of the analysis were compared to Health Canada Guidelines for Canadian Drinking Water Quality.

Duplicate grab samples were collected from the Cirque Stream (UTM 585494E, 6860161N NAD83 Zone 8) on August 4, 2008. The water was collected into clean bottles while standing downstream of the collection area and all bottles and caps were triple-rinsed prior to filling each bottle. Preservatives were added for total metals (ultra-pure nitric acid), total organic carbon (hydrochloric acid) and total Kjeldahl Nitrogen (sulphuric acid). CCME guidelines for the protection of aquatic life (2006) and B.C. guidelines (BCMWLAP 2001, 2005) were used to screen general parameter, anion, nutrient and total metal concentrations.

A separate set of bottles for field and travel blanks were included as part of the field QA/QC program. The travel blank bottles were filled with distilled deionized water in the lab and remained closed throughout the field trip. This allowed assessment of contamination associated with the lab procedures. The field blank bottles were also filled with distilled deionized water, but were opened in the field and preserved as required for certain analyses. This allowed assessment of contamination associated with field sampling (airborne contamination, contamination of the lid/bottle, *etc.*) and preservation procedures.

Results

Drinking Water

Bacteriological results indicated that the lake water had total coliform counts greater than guideline (Table 1; guideline = 0 MPN/100 mL; average lake source coliform count = 1.5 MPN/100 mL, MPN= most probable number). Both holding tank samples also had total coliform counts greater than the guideline value (average holding tank coliform count = 10.5 MPN/100 mL). There was no *Escherichia coli* present in detectable concentrations in either the lake source or the holding tank. Coliforms are rod-shaped, gram negative bacteria and indicate pathogenic organisms may be present in the water.

Cirque Stream Water

Water quality analysis of the Cirque Stream water indicates the water is pristine chemically (Table 2a and 2b). Similar to results observed in June and July there were no physical parameters (*e.g.*, pH, total suspended solids and turbidity) with concentrations that exceeded the CCME or BC guidelines.

Table 1
Drinking Water Quality Data and
Guideline Screening at Risby Camp, 2008

Sample ID		Lake Source	Lake Source	Holding Tank	Holding Tank	Health	
Date Sampled		4-Aug-08	4-Aug-08	4-Aug-08	4-Aug-08	Canada	
Replicate	Units	1	2	1	2	Guideline	Basis of Guideline ^a
Bacteriological Tests							
E. coli	MPN/100 mL	<1	<1	<1	<1	0	MAC
Coliform Bacteria - Total	MPN/100 mL	1	2	10	11	0	MAC

^aMAC= Maximum Acceptable Concentration.

< indicates the value is less than the detection limit indicated.

Dashes indicate data is not available.

Bolded and outlined values are greater than guideline value.

All anions and nutrient concentrations with guidelines also were below the guideline values. Ammonia (as nitrogen), bromide, chloride, nitrite (as nitrogen) and total organic carbon concentrations in the Cirque Stream were below the analytical detection limit. Sulfate concentrations in August were low (27.95 mg/L) compared to the sulfate concentration observed in June (59.2 mg/L).

All total metal concentrations measured in the August water samples were below the guideline values where available in except for aluminum. The CCME guideline value for aluminum is 0.1 mg/L (at pH > 6.5) and the average aluminum concentration of the Cirque Stream samples was 0.13 mg/L. The average aluminum concentration of the July Cirque Stream sample was 0.82 mg/L, also above the guideline value; aluminum concentration was less than the guideline value in June. Previous results indicated the iron concentration of June and July Cirque Stream samples was greater than guideline values however iron concentration (0.085 mg/L) was below the guideline value in August.

Several metals concentration in the water samples collected in August were below the analytical detection limits, including antimony, beryllium, bismuth, cadmium, cobalt, lead, lithium, mercury, selenium, silver, thallium, tin, titanium, tungsten and zinc. These results are similar to the metal concentrations observed in June and July.

All analytes in field and travel QA/QC blanks are reported in Appendix 1. All concentrations were below the analytical detection limits in both field and travel blank except for pH and acidity (less than 5 times the detection limit). This indicates there was no contamination either during the sampling protocol or during transit.

Summary and Recommendations

Based on the results obtained from bacteriological analysis of water sampled on August 4, 2008 the water at Risby Camp is not suitable for drinking according to Health Canada guidelines. The inconsistency in results (previous results indicated no coliforms were present in the holding tank and the August results suggest contamination) indicates the need for disinfection in addition to filtration. Chlorination of the water supply will require that free chlorine residual concentration and trihalomethanes be tested on a regular basis. Free chlorine residual concentration throughout the piped distribution system should be less than 0.2 mg/L.

Table 2a
Summary of Stream Water Quality for Cirque Stream near Risby Camp, August 2008

Date Sampled Replicate	Units	DL	Cirque Stream	Cirque Stream	CCME Guideline	BC guidelines	
			4 August 1	4 August 2		Max	30-d mean
Physical Tests							
Colour	CU	5	<5.0	<5.0			< 80% light transmission
Conductivity	uS/cm	2	145	147	-		
Hardness (as CaCO3)	mg/L	0.5	57.0	58.2	-		
pH	pH	0.01	7.86	7.93	6.5 - 9.0		6.5 - 9.0
Total Suspended Solids	mg/L	3	<3.0	3.0	25 above background	C	C
Total Dissolved Solids	mg/L	10	76	85			
Turbidity	NTU	0.1	1.06	0.81	-	C	C
Anions and Nutrients							
Acidity (as CaCO3)	mg/L	1	1.5	1.4			
Alkalinity, Total (as CaCO3)	mg/L	2	37.2	38.2			
Ammonia as N	mg/L	0.02	<0.020	<0.020	A	A	A
Bromide (Br)	mg/L	0.05	<0.050	<0.050	-		
Chloride (Cl)	mg/L	0.5	<0.50	<0.50	-	600	
Fluoride (F)	mg/L	0.02	0.570	0.573	-	C	
Nitrate (as N)	mg/L	0.005	0.0766	0.126	2.9	200	≤40
Nitrite (as N)	mg/L	0.001	<0.0010	<0.0010	0.06	E	E
Total Kjeldahl Nitrogen	mg/L	0.05	0.054	<0.050	-		
Total Nitrogen	mg/L	0.05	0.10	0.11	-		
Total Phosphate as P	mg/L	0.002	0.0044	0.0032	B		
Sulfate (SO4)	mg/L	0.5	27.6	28.3	-	100, 50 D	
Organic / Inorganic Carbon							
Total Organic Carbon	mg/L	0.5	<0.50	<0.50	-		±20% background

< indicates the value is less than the detection limit.

A: CCME Guideline (2000) for ammonia (mg/L):

Temperature (°C)	pH			
	6	6.5	7	7.5
0	231	73	23.1	7.32
5	153	48.3	15.3	4.84
10	102	32.4	10.3	3.26
15	69.7	22	6.98	2.22
20	48	15.2	4.82	1.54

B: Canadian Trigger Ranges for Total Phosphorus (mg/L):

ultra-oligotrophic	< .004
oligotrophic	0.004 - 0.010
mesotrophic	0.010 - 0.020
meso-eutrophic	0.020 - 0.035
eutrophic	0.035 - 0.100
hyper-eutrophic	> 0.100

C: depends on background

for TSS: if background ≤25 mg/L, then max 25 mg/L increase in 24 h, and a mean increase of 5 mg/L over 30 d. If background 25-250 mg/L, then max increase of 25 mg/L.

if background >250 mg/L, then max 10% increase.

for turbidity: if background <8 NTU, then max 8 NTU increase in 24 h, and a mean increase of 2 mg/L in 30d. If background 8-80 NTU, then max increase of 8 NTU.

if background >80 NTU, then max 10% increase.

for fluoride: 0.3 mg/L max for hardness 50 mg/L CaCO₃ or higher, 0.2 mg/L max F for hardness <50 mg/L CaCO₃.

D: alert to monitor aquatic moss populations.

E: Nitrite BC Max 0.06 mg/L and 30 d mean 0.02 mg/L for Cl<2mg/L. BC Max nitrite 0.12 mg/L and 30 d mean 0.04 mg/L for Cl 2-4 mg/L.

Table 2b
Summary of Stream Water Quality for Cirque Stream near Risby Camp, August 2008

Date Replicate	Units	DL	Cirque Stream 4 August	Cirque Stream 4 August	CCME Guideline	BC guidelines	
			1	2		Max	30-d mean
Total Metals							
Aluminum (Al)-Total	mg/L	0.001	0.119	0.141	0.1 A	-	-
Antimony (Sb)-Total	mg/L	0.0001	<0.00010	<0.00010	-	0.02 B	-
Arsenic (As)-Total	mg/L	0.00003	0.000595	0.000605	0.005	0.005 B	1 B
Barium (Ba)-Total	mg/L	0.00005	0.00386	0.00401	-	5 B	0.0053 B
Beryllium (Be)-Total	mg/L	0.0002	<0.00020	<0.00020	-	-	-
Bismuth (Bi)-Total	mg/L	0.0005	<0.00050	<0.00050	-	-	-
Boron (B)-Total	mg/L	0.001	<0.0010	<0.0010	-	1.2	-
Cadmium (Cd)-Total	mg/L	0.000017	<0.000017	<0.000017	A	A, B	-
Calcium (Ca)-Total	mg/L	0.02	20.2	20.5	-	-	-
Chromium (Cr)-Total	mg/L	0.0001	0.00011	0.00014	A	0.001 B	-
Cobalt (Co)-Total	mg/L	0.0001	<0.00010	<0.00010	-	0.110	0.004
Copper (Cu)-Total	mg/L	0.0001	0.00033	0.00033	A	C	C
Iron (Fe)-Total	mg/L	0.01	0.085	0.084	0.3	0.3 B	-
Lead (Pb)-Total	mg/L	0.00005	<0.000050	0.000053	A	D	D
Lithium (Li)-Total	mg/L	0.005	<0.0050	<0.0050	-	5 B	-
Magnesium (Mg)-Total	mg/L	0.005	1.60	1.67	-	-	-
Manganese (Mn)-Total	mg/L	0.00005	0.00228	0.00282	-	E	E
Mercury (Hg)-Total	mg/L	0.00001	<0.000010	<0.000010	0.000026 A	0.0001	0.00002
Molybdenum (Mo)-Total	mg/L	0.00005	0.00177	0.00180	0.073	2	1
Nickel (Ni)-Total	mg/L	0.0001	0.00011	0.00013	A	A, B	-
Phosphorus (P)-Total	mg/L	0.3	<0.30	<0.30	-	-	-
Potassium (K)-Total	mg/L	0.05	0.723	0.736	-	-	-
Selenium (Se)-Total	mg/L	0.0001	<0.00010	<0.00010	0.001	-	0.002
Silicon (Si)-Total	mg/L	0.05	2.42	2.41	-	-	-
Silver (Ag)-Total	mg/L	0.00001	<0.000010	<0.000010	0.000100	F	F
Sodium (Na)-Total	mg/L	0.01	0.877	0.909	-	-	-
Strontium (Sr)-Total	mg/L	0.0001	0.0455	0.0466	-	-	-
Thallium (Tl)-Total	mg/L	0.0001	<0.00010	<0.00010	0.0008	0.0003 B	-
Tin (Sn)-Total	mg/L	0.0001	<0.00010	<0.00010	-	-	-
Titanium (Ti)-Total	mg/L	0.01	<0.010	<0.010	-	0.1 B	-
Tungsten (W)-Total	mg/L	0.5	<0.50	<0.50	-	-	-
Uranium (U)-Total	mg/L	0.00001	0.000813	0.000859	-	0.3 B	-
Vanadium (V)-Total	mg/L	0.00005	0.000197	0.000236	-	-	-
Zinc (Zn)-Total	mg/L	0.001	<0.0010	<0.0010	0.0300	G	G

Dashes indicated data not available.

Bolded and outlined values are greater than guideline value.

A: depends on background, CCME guideline:

for aluminum: pH>6.5

for cadmium guideline = $0.001 * 10^{0.86[\log(\text{hardness})] - 3.2}$ mg/L

for chromium guideline = 0.001 mg/L (Cr VI), or 0.0089 (Cr III) , interim

for copper: CCME = 0.002 mg/L at 0-120 mg/L [CaCO₃], 0.003mg/L at 120 - 180 mg/L [CaCO₃], 0.004 mg/L at > 180 mg/L [CaCO₃]

for lead = 0.001 mg/L for [CaCO₃]=0-60 mg/L, 0.002 mg/L for [CaCO₃]=60-120 mg/L, 0.004 mg/L for [CaCO₃]=120-180 mg/L, 0.007 mg/L for [CaCO₃] >180 mg/L

for mercury, inorganic fraction

for nickel: both BC and CCME guideline = 0.025 mg/L at 0-60 mg/L [CaCO₃], 0.065mg/L at 60 - 120 mg/L [CaCO₃], 0.110 mg/L at 120 - 180 mg/L [CaCO₃], 0.150 mg/L at > 180 mg/L [CaCO₃].

B: Working BC guideline.

C: Max. Cu guideline of $(0.094(\text{hardness})+2)$ µg/L. The 30-d mean Cu guideline is ≤ 2 µg/L for hardness ≤ 50 mg/L, and guideline is ≤ $0.04 * (\text{mean hardness})$ µg/L for hardness > 50mg/L.

D: Max Pb guideline of $e(1.273 \ln (\text{hardness}) - 1.460)$ if hardness > 8mg/L; 0.003 mg Pb/L if hardness ≤ 8mg/L. 30-day mean Pb guideline of $\leq 3.31 + e(1.273 \ln (\text{mean hardness}) - 4.704)$ for hardness > 8mg/L only; otherwise no 30-d mean guideline.

E: BC Max Mn guideline $0.01102(\text{hardness})+0.54$ mg/L; 30-day mean Mn guideline $0.0044(\text{mean hardness})+0.605$ mg/L.

F: for silver: BC Max = 0.003 mg/L if hardness > 100mg/L, Max= 0.0001mg/L if hardness < 100mg/L, BC 30-d Mean = 0.0015 mg/L if hardness > 100mg/L, Mean= 0.00005 mg/L if hardness < 100mg/L.

G: Max Zn guideline = $[33 + 0.75 * (\text{hardness} - 90)]$ ug/L, minimum of 33 ug/L. 30-day mean Zn guideline = $[7.5 + 0.75 * (\text{hardness} - 90)]$ ug/L, min of 7.5 ug/L.

Further sampling (both this year and subsequent years) at Cirque Stream and surrounding streams should demonstrate seasonal variability in water quality variables. In particular, sulfate and aluminum seasonal variability trends could be monitored with additional sampling. In addition seasonal and yearly water quality sampling will provide a baseline for determining any potential effects to water quality should development occur.

References

- BCMWLAP. 2001. *A Compendium of Working Water Quality Guidelines for British Columbia*. N.K. Nagpal, L.W. Pommen, L.G. Swain. Water Management Branch, Environmental and Resource Management Department, Ministry of Water, Land and Air Protection. August 23, 2001. Refer to <http://wlapwww.gov.bc.ca/wat/wq/BCguidelines>.
- BCMWLAP. 2005. *Water Quality Guidelines (Criteria) Reports*. British Columbia Ministry of Water, Land and Air Protection. Refer to <http://wlapwww.gov.bc.ca/wat/wq/BCguidelines>.
- CCME. 2006. *Canadian water quality guidelines for the protection of aquatic life: Summary table*. Updated 2006. In: *Canadian environmental quality guidelines*, 1999, Canadian Council of Ministers of the Environment, Winnipeg.
- Health Canada. 2007. *Summary of Guidelines for Canadian Drinking Water Quality*. Federal-Provincial-Territorial (FPT) Committee on Drinking Water of the FPT Committee on Health and the Environment.
- Government of Yukon, 2007. *Guidelines for PART 3- Small Public Drinking Water Systems*. Environmental Health Services, Government of Yukon.

Yours truly,
RESCAN[™] ENVIRONMENTAL SERVICES LTD.
per:



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/encl.

Appendix 1
Field and Travel Blanks Quality Assurance/ Quality Control
for Cirque Stream Water Quality Data of Risby Project, 2008

Sample ID			Travel Blank	Field Blank
Date	Units	Detection Limit	4 August	4 August
Physical Tests				
Colour, True	CU	5	<5.0	<5.0
Conductivity	uS/cm	2	6.5	<2.0
Hardness (as CaCO3)	mg/L	0.5	<0.50	<0.50
pH	pH	0.01	5.76	5.52
Total Suspended Solids	mg/L	3	<3.0	<3.0
Total Dissolved Solids	mg/L	10	<10	<10
Turbidity	NTU	0.1	<0.10	<0.10
Anions and Nutrients				
Acidity (as CaCO3)	mg/L	1	1.2	1.2
Alkalinity, Total (as CaCO3)	mg/L	2	<2.0	<2.0
Ammonia as N	mg/L	0.02	<0.020	<0.020
Bromide (Br)	mg/L	0.05	<0.050	<0.050
Chloride (Cl)	mg/L	0.5	<0.50	<0.50
Fluoride (F)	mg/L	0.02	<0.020	<0.020
Nitrate (as N)	mg/L	0.005	<0.0050	<0.0050
Nitrite (as N)	mg/L	0.001	<0.0010	<0.0010
Total Kjeldahl Nitrogen	mg/L	0.05	<0.050	<0.050
Total Nitrogen	mg/L	0.05	<0.05	<0.05
Total Phosphate as P	mg/L	0.002	<0.0020	<0.0020
Sulfate (SO4)	mg/L	0.5	<0.50	<0.50
Organic / Inorganic Carbon				
Total Organic Carbon	mg/L	0.5	<0.50	<0.50
Total Metals				
Aluminum (Al)-Total	mg/L	0.001	<0.0010	<0.0010
Antimony (Sb)-Total	mg/L	0.0001	<0.00010	<0.00010
Arsenic (As)-Total	mg/L	0.00003	<0.000030	<0.000030
Barium (Ba)-Total	mg/L	0.00005	<0.000050	<0.000050
Beryllium (Be)-Total	mg/L	0.0002	<0.00020	<0.00020
Bismuth (Bi)-Total	mg/L	0.0005	<0.00050	<0.00050
Boron (B)-Total	mg/L	0.001	<0.0010	<0.0010
Cadmium (Cd)-Total	mg/L	0.000017	<0.000017	<0.000017
Calcium (Ca)-Total	mg/L	0.02	<0.020	<0.020
Chromium (Cr)-Total	mg/L	0.0001	<0.00010	<0.00010
Cobalt (Co)-Total	mg/L	0.0001	<0.00010	<0.00010
Copper (Cu)-Total	mg/L	0.0001	<0.00010	<0.00010
Iron (Fe)-Total	mg/L	0.01	<0.010	<0.010
Lead (Pb)-Total	mg/L	0.00005	<0.000050	<0.000050
Lithium (Li)-Total	mg/L	0.005	<0.0050	<0.0050
Magnesium (Mg)-Total	mg/L	0.005	<0.0050	<0.0050
Manganese (Mn)-Total	mg/L	0.00005	<0.000050	<0.000050
Mercury (Hg)-Total	mg/L	0.00001	<0.000010	<0.000010
Molybdenum (Mo)-Total	mg/L	0.00005	<0.000050	<0.000050
Nickel (Ni)-Total	mg/L	0.0001	<0.00010	<0.00010
Phosphorus (P)-Total	mg/L	0.3	<0.30	<0.30
Potassium (K)-Total	mg/L	0.05	<0.050	<0.050
Selenium (Se)-Total	mg/L	0.0001	<0.00010	<0.00010
Silicon (Si)-Total	mg/L	0.05	<0.050	<0.050
Silver (Ag)-Total	mg/L	0.00001	<0.000010	<0.000010
Sodium (Na)-Total	mg/L	0.01	<0.010	<0.010
Strontium (Sr)-Total	mg/L	0.0001	<0.00010	<0.00010
Thallium (Tl)-Total	mg/L	0.0001	<0.00010	<0.00010
Tin (Sn)-Total	mg/L	0.0001	<0.00010	<0.00010
Titanium (Ti)-Total	mg/L	0.01	<0.010	<0.010
Tungsten (W)-Total	mg/L	0.5	<0.50	<0.50
Uranium (U)-Total	mg/L	0.00001	<0.000010	<0.000010
Vanadium (V)-Total	mg/L	0.00005	<0.000050	<0.000050
Zinc (Zn)-Total	mg/L	0.001	<0.0010	<0.0010

< indicates the value is less than the detection limit indicated.

Bolded and outlined values are greater than detection limit

Risby

Drinking Water Quality Parameters and Detection Limits

Parameter	Detection Limit (mg/L)	Health Canada guideline 2001 (mg/L)
<u>Physical</u>		
Colour (Cu)	5	15
Conductivity (µS/cm)	2	-
pH (pH units)	0.01	6.5-8.5
Turbidity (NTU)	0.1	5
Total Dissolved Solids	1	500
Hardness	0.50	-
<u>Dissolved Anions</u>		
Total Alkalinity (as CaCO ₃)	1	-
Chloride	0.5	<250
Fluoride	0.02	1.5
Sulphate	0.5	500
Nitrate	0.005	10
Nitrite	0.001	1
<u>Total Metals</u>		
Aluminium	0.001	0.1
Antimony	0.0005	0.006
Arsenic	0.001	0.025
Barium	0.02	1
Boron	0.001	5
Cadmium	0.0002	0.005
Calcium	0.02	-
Chromium	0.0001	0.05
Copper	0.001	1.0
Iron	0.01	0.3
Lead	0.001	0.01
Magnesium	0.1	-
Manganese	0.002	0.05
Mercury	0.0002	0.001
Potassium	0.1	-
Selenium	0.001	0.01
Sodium	2	200
Uranium	0.0001	0.02
Zinc	0.05	5
<u>Hydrocarbons (when applicable)</u>		
LEPH	0.3	
HEPH	1.0	
Total Polycyclic Aromatic Hydrocarbons	0.000050	

** detection limits may be lower depending on sample matrix

Risby

Water Quality Parameters- Metals only and Detection Limits

Parameter	Detection Limit (mg/L)
<u>Total Metals</u>	
Aluminium	0.001
Antimony	0.0001
Arsenic	0.00003
Barium	0.00005
Beryllium	0.0002
Boron	0.001
Cadmium	0.000017
Calcium	0.02
Chromium	0.0001
Cobalt	0.0001
Copper	0.0005
Iron	0.01
Lead	0.00005
Magnesium	0.01
Manganese	0.00005
Mercury	0.00002
Molybdenum	0.00005
Nickel	0.0001
Potassium	0.05
Selenium	0.0001
Silicon	0.05
Silver	0.0001
Sodium	0.01
Strontium	0.0001
Uranium	0.00001
Vanadium	0.00005
Zinc	0.001