# BRITISH COLUMBIA PROSPECTORS ASSISTANCE PROGRAM MINISTRY OF ENERGY AND MINES GEOLOGICAL SURVEY BRANCH

PROGRAM YEAR:2000/2001REPORT #:PAP 00-52NAME:ALEX BORONOWSKI

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# 2000 Prospecting Report for the Blackdome Mountain and Roaster Lake area: NTS Map Sheets 92 O/2 & 7

Latitude 51° 15' N; Longitude 122° 35' W

**Clinton Mining Division** 

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January 29, 2001

Report submitted in compliance with the stipulations of the British Columbia Prospectors<sup>®</sup> Assistance Program

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Grant Reference No. 00/01 - P129

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#### **SUMMARY**

A prospecting program was conducted south and west of Blackdome Mountain and the area around Roaster Lake during the summer and fall of 2000 (Figure 1). It was targeted to explore for epithermal Au vein mineralization similar to that found at the Blackdome Mine to the northeast.

Twenty-two days were spent working in the field. The total cost for the program was about \$13, 180. Forty-four new mineral claims were staked as a result of the prospecting program. These comprise three claim groups called the Richman 1, Richman 2 and Richman 3.

The prospecting program augmented previous government and industry geological and geochemical work that had been performed in the area in the 1980's. The 2000 program had four main objectives.

- Investigate the area south and southeast of Flapjack Peak called the Poorman area. A 57 ppb Au B.C. RGS stream sediment sample was collected from a westward draining stream in this area.
- Assess the Au potential of the former Pony/Bobcat claim block now called the Richman area.
- 3) Examine the area around the Hungry Valley and south of Roaster Lake for Au-vein mineralization.
- 4) Prospect the French Mountain area and Pony Valley for Au-vein mineralization

Westward draining streams in the Poorman area were tested for Au using heavy mineral pan concentrates (Figure 2). Only trace Au values were found (Table 2) and this suggests that the streams in this area eroded no Au-bearing veins. Soil geochemistry was employed on a north trending ridge drained by the streams to test for potential Au mineralization. The soil geochemistry was ambiguous with a few non-coincidental anomalous samples. Contour plots of Ba, Ce, La and U show a weak elongated northeast trend that overlaps one anomalous (25 ppb) Au result.

Occurrences of vuggy quartz float (Figure 3) and old trench and drill data indicate the presence of silicified clay altered fault zones in the Richman area. Inspection of old drill core revealed the presence of several quartz-sealed breccia zones somewhat similar in mineralogy

and texture to those at the Blackdome Mine. To date previous sample results of core and outcrop have returned low Au values, usually <20 ppb but high Hg values, some >10,000ppb. One sample of quartz float collected on the southern boundary of the Richman 2 claim group (Figure 1 & Table4) contained anomalous Ag (9.6 ppm) and Pb (754 ppm).

The area south of Roaster Lake contains several northeast trending fault zones. Some of these contain quartz veinlets and quartz-sealed breccias with minor sulphides. The best example of these, called the Marco showing by previous workers, contains several quartz-rich sections. Unfortunately samples analyzed from this structure contained Au contents of <5 ppb (Table 6).

Prospecting of the French Mountain area and the Pony Valley was foregone in this program. The area was remote and access along overgrown and washed out roads/trails was difficult. This area remains to be examined at some future date.

#### **INTRODUCTION AND STRUCTURE OF PROGRAM**

The 2000 prospecting program was designed to begin an assessment of the epithermal-Au potential of the terrain around Roaster Lake southwest of the Blackdome mine, Blackdome Mountain. Work was done in an area extending south and west of the Blackdome property boundary to the south of Roaster Lake and west to Flapjack Peak (Figure 1). It focussed on physical prospecting, soil geochemistry and stream sampling. It augmented previous government and industry geological and geochemical work that had been performed in the area in the 1980's.

#### **Location and Access**

The area prospected is located in the Camelsfoot Range about 20 km west of the Fraser River, 70 km west-northwest of Clinton, B.C. It lies on N.T.S. mapsheets 92 0/ 2 & 7.

Access to the area is provided by an all-weather gravel road, which leaves Highway 97 about 17 km north of Clinton, B.C. The road leads westward and crosses the Fraser River via the Gang Ranch Bridge. The road then heads southward towards Empire Valley. Just south of Brown Lake the Blackdome mine road turns off. This road is about 32 km long and is driveable by normal 2 wheel drive vehicles under dry conditions to Blackdome Mountain.



From there four wheel drive mining and fire roads lead southward and westward into the prospecting area.

#### **Summary of Geology**

Blackdome Mountain is an Eocene-aged calc-alkaline volcanic centre. It is composed of shallow dipping layer-cake stratigraphy made-up of alternating beds of andesitic, dacitic and rhyolitic flows, breccias, tuffs and volcanic-derived sediments. The Eocene volcanic rocks are part of a regional formation. They are underlain by older Lower Cretaceous-aged conglomerate of the Jackass Mountain Group in the southern part of the area explored. Dark Miocene-aged basalt flows and breccias of the Chilcotin Group cap the Eocene volcanics and are often prominently exposed on topographic high points. Glacial drift, which includes till and fluvial deposits, forms an extensive blanket that covers the country rocks at lower elevations.

Epithermal Au mineralization at the Blackdome mine occurs in low-sulphidation quartz veins, which display characteristic open-space filling textures. The veins are composed of several phases of, amorphous and fine-grained to coarse-grained sub-to euhedral crustiform and cockscomb quartz. The quartz is accompanied by significant adularia, calcite and clay minerals including Ca-K montmorillonite, illite, mixed illite/smectite and minor kaolinite (Vivian, 1988). Sulphides are sparse in the Blackdome veins and are generally fine-grained. Sulphides include pyrite, Ag-sulphosalts, acanthite, chalcopyrite, galena, sphalerite and marcasite. Gold occurs in native form and as electrum (Vivian, 1988).

The epithermal veins on Blackdome Mountain are contained in prominent north to northeast trending fault zones, which generally dip steeply to the west. They tend to be strongly argillically altered and stained by iron and manganese oxides. Propylitic alteration also occurs peripherally to the veins and may form an outer envelope to the argillic alteration. Green porphyritic andesite dykes intrude the vein-bearing faults locally.

Previous exploration work at the Blackdome mine has determined that Au, Hg, Sb are useful pathfinder elements for the epithermal mineralization. Previous workers in the area have also noted that economic Au mineralization at Blackdome is confined largely between the 1870 and 1960 m elevation and the veins at this level are generally better formed and the wall rocks are harder and less clay altered. At higher levels the veins become more discontinuous

and occur as multiple stringers. Also, the wallrock tends to more clay altered. The Au content of the veins at upper levels is generally lower and higher grades occur more sporadically. These characteristics of the Blackdome veins may be related to a primary topographic control in the hydrothermal system. Also interesting is that all known economic mineralization at Blackdome Mountain appears to occur within several kilometres of the peak and this suggests that the Au mineralization in the area was deposited close to volcanic centres.

#### **Objectives of the Prospecting Program and Previous Work**

The prospecting program was conducted in the area contained in Figure 1. Traverses were conducted along available trails and roads and cross-country to examine outcrop for potential epithermal Au mineralization. Twenty-two days were spent in the field and the exploration of the area is still far from complete. The prospecting program for 2000 had three main objectives, which are outlined below.

1) Investigate the <u>area south and southeast of Flapjack Peak</u> for Au mineralization in the vicinity of an anomalous (57 ppb Au) stream sediment anomaly reported by the B.C. Geological Survey Branch (B.C. RGS 35: No. 5583: see Figure 1 & 2). The anomalous B.C. RGS sample was of silt.

This area is referred to as the <u>Poorman area</u> in this report. The creeks in this area drain west-facing slopes and eventually flow into Churn Creek lying to the west. It was resolved to test the upper tributaries of the stream containing the anomalous B.C. RGS sample for Au using heavy mineral pan concentrates.

In addition, it was decided to do a small soil grid (200 x 500 m) in the Poorman area. Soil samples were taken at 50 m spacing on a north-striking ridge, which adjoins the anomalous drainage in the south (Figure 2). This ridge forms a prominent topographic high and it was thought that it could potentially represent a volcanic centre and contain Au-bearing mineralization similar to that at Blackdome Mountain.

The Poorman area has been previously explored by Ashworth Explorations Ltd. (Leriche, 1987); it was previously covered by the Foot 1 - 7 series mineral claims. The program by Ashworth Explorations Ltd. concentrated on geologic mapping, stream sediment sampling and soil sampling. The stream sediment samples were of silt and sand and one sample of 45 ppb

Au was obtained from the same drainage as sampled in the B.C. RGS survey. The soil sampling performed by Ashworth Exploration Ltd. was on straight traverses profiling topographic high points and along contour. Sample intervals for the soil program were fairly wide at about 100 m spacing. Three anomalous Au results ranging from 25 to 50 ppb were obtained from a suite of 222 samples. In addition, there were three anomalous Hg samples (up to 150 ppb) and two anomalous Zn samples (up to 169 ppm). However, the anomalous Au, Hg and Zn results were not coincidental and generally the anomalous samples tended to be scattered. A higher (20 ppb Au) result was obtained from a soil sample taken just to the northeast of the ridge sampled in this survey. The ground around the anomalous Au samples reported by Leriche (1987) was inspected during the course of doing the heavy mineral survey.

2) Assess the Au potential of the <u>Richman area</u> covered by the former Pony/Bobcat claim block and now by the recently staked Richman claims just southwest of Blackdome Mountain (Figure 1).

Several parties have previously explored this area. In 1981 Mr. R. Dunn obtained anomalous Au values from heavy mineral samples from creeks draining the area. Unfortunately, the location of these samples is unknown. Other samples from altered and silicified float reportedly contained up to 2010 ppb Au; these samples were found on line with the southwestern projection of the Blackdome vein system (Heine, 1988 a & b). In 1982, 23 soil samples were collected along a contour-parallel traverse (Fipke and Capell, 1983); of these three were very anomalous in Au (at 1180 - 2555 ppb). The approximate location of the traverse containing these samples was just east of the old Lexington baseline and curved around to the east of the volcanic outcrop (unit 2) shown on Figure 3.

In 1986 the Pony claims were re-staked as the Bobcat claims and then subsequently sold to Lexington Resources Ltd. More exploration was done by Ashworth Explorations Ltd. for Lexington Resources Ltd. in the late 1980's. A program of geological mapping, soil sampling and trenching was followed by diamond drilling (Heine, 1988 a & b). This program identified several argillically altered fault zones of similar attitude as those found at Blackdome Mountain. Some of these structures contained quartz stringers and quartz sealed breccias with open-space filling textures; some contained significant sulphides. However, assay values of samples taken in trenches and core did not return any significant Au values. A "high" Au value

of 120 ppb was obtained from a blocky-brecciated clay-rich zone with quartz veinlets in one drill hole. The same interval contained mercury values up to 6100 ppb. Lower Au values (generally below 70 ppb) were returned from other similar clay-rich silicified zones. A few of these contained sporadic high Hg values exceeding 5000ppb.

The prospecting done in this program sought to investigate the origin of the anomalous Au in the soil samples reported by Fipke and Capell (1983). The surface in the area was investigated for mineralized float and a soil grid of three lines was established east of the old Lexington baseline (Figure 3). These lines cut across the soil traverse of Fipke and Capell (1983) and would intersect any potential north to northeast striking veins present. Soil samples were taken at 25 m intervals and analyzed using cold hydroxylamine leach and multi-element ICP analysis at ALS-Chemex Laboratories Ltd., North Vancouver, B.C.

The core from one dozen holes drilled by Lexington Resources Ltd. in 1988 was reorganized and re-piled. It was then examined for mineralization and altered fault zones. Several holes intersected quartz-sealed breccia zones, which were contained in argillically altered faults. Sulphides were rare; the most abundant sulphide was pyrite, which was generally contained in the altered wall rock. The host rocks consisted of medium to green-grey (+/-) pyroxene-feldspar-porphyritic dacite to andesite. Occasional beds of autoclastic volcanic breccia, ash layers, heterogeneous volcanic blockstone, and fine to coarse-grained volcanic sandstone occurs in the stratigraphy. The volcanic blockstones contained a mixture of porphyritic dacite and andesite blocks up to 10's of centimetres across. Pale rhyolite fragments were noted in places. Generally these blockstones are unbedded and probably were locally derived. Some of the sandstone layers are well bedded and grain size varies from fine to coarse. Some of the coarse-grained sandstone beds contained flattened pumice fragments. Minor laminated mudstone and fine-grained ash beds are contained in the sandstone layers. Like the volcanic blockstones the sandstones were largely derived from andesitic and dacitic volcanics but are more reworked, likely in an aqueous setting.

3) Prospect the Hungry Valley drainage west of the Blackdome property boundary and the area south of Roaster Lake for epithermal-style Au-bearing vein mineralization.

4) Prospect the area around French Mountain and the Pony Valley for epithermal Au veins. This area is located southeast of Roaster Lake and is not shown on Figure 1.

#### RESULTS

#### Soil Geochemistry - Orientation Survey

Two orientation traverses of 9 and 6 samples at 25 m spacing were conducted over the south extension of the 1 and Watson veins respectively on Blackdome Mountain. These traverses were done in order to determine the nature of chemical response given in soil by Aubearing veins in the area. This orientation survey served as a guide for assessing other soil geochemistry performed during the prospecting program in the Poorman and Richman areas.

The soil samples taken for the orientation survey were of the B-horizon and analyzed by cold hydroxylamine leach followed by multi-element ICP analysis. The samples were also analyzed for Au by fire assay performed on a split of the -80 mesh fraction. ALS-Chemex Ltd., North Vancouver, B.C performed all analyses and preparatory work for the soils.

The results for selected elements were graphed on plots of element concentration versus distance and these are presented in Appendix I. The elements chosen for examination and presentation were confined to those that are known to be elevated in and around epithermal-Au deposits and to certain others that occurred at levels significantly above the detection limit over the two veins.

Some individual sample results in the traverses were below the detection limit. In order to plot these results and treat them statistically they were assigned a value of half the detection limit (e.g. a <0.005 ppm Sb result was converted to 0.0025 ppm for the purposes of doing calculations).

Table 1 provides a summary of the chemical response of selected elements in the orientation survey over the 1 and Watson veins.

Several elements were found to form single or double concentration peaks over and adjacent to the vein trace in one or both of the traverses conducted. These include Au, Ag, As, Ca, Ce, K, La, Sb, Sr and U. All members of this group were considered as potential indicator elements for epithermal veins and were used in assessing the soil data from the areas prospected. Of these, Au, Ag, As and Sb are reported in the literature as classic pathfinder elements for epithermal-style vein mineralization. Ca and Sr have been shown as useful

	Character of Geo	chemical Response	Max.	Min.	Range	Det. Lim.
	1 Vein	Watson Vein	ppm	ppm	ppm	ppin
Au	No distinct peak Flat pattern	Offset peak	35 ppb	<0.005 ppb	>30 ppb	5 ppb
Ag	Offset and centered peaks	Offset peak	0.066	0.01	0.056	0.0()2
As	Two peaks beside vein trace	No distinct peak High sample at edge of traverse	0.6	<0.1	>0.5	0.1
Ba	No distinct peak Flat pattern	Distinct centred peak High value at edge of traverse	43.3	6.3	37.0	0.05
Ca	No distinct peak Ambiguous sawtooth pattern	Distinct centred peak	1100	<10	>1090	10
Ce	No distinct peak Ambiguous sawtooth pattern	Distinct centred peak	2.71	0.56	2.25	0.005
Cu	No distinct peak Ambiguous sawtooth pattern	No distinct peak Flat pattern	0.85	0.25	0,60	0.05
Fe	No distinct peak Ambiguous sawtooth pattern	No distinct peak Ambiguous sawtooth pattern	490	135	355	5
K	No distinct peak Ambiguous sawtooth pattern	Offset peak	125	15	110	5
La	No distinct peak Ambiguous sawtooth pattern	Distinct centred peak	1.38	0.255	1.12	0.005
Mn	Ambiguous multiple highs	No distinct peak High at edge of traverse	46.1	3.0	<b>43</b> . 1	0,1
P	No distinct peak Ambiguous sawtooth pattern	No distinct peak Ambiguous sawtooth pattern	215	<5	>2:10	5
Pb	No distinct peak Ambiguous sawtooth pattern	No distinct peak High at edge of traverse	1.2	0.3	0,9	0.1
Sb	Offset peak	Distinct centred peak	0.015	<0.005	>0.010	0.005
Sr	No distinct peak Flat pattern	Distinct centred peak	14.95	0.50	14.45	0.05
Th	No distinct peak Ambiguous sawtooth pattern	Ambiguous multiple highs	0.11	<0.01	>0.10	0.01
U	Offset peak	Distinct centred peak	0.065	0.015	0.050	0.005
Zn	Offset peak High at edge of traverse	No distinct peak Flat pattern	10.2	1.6	8.6	0.2

# Table 1: Summary of orientation soil survey over the 1 and Watson veins,Blackdome Mountain.

elements for identifying deeply buried Au-vein mineralization in arid and semi arid environments (Smee, 1998). Several of the rare-earth elements displayed peaks over or adjacent to the 1 or Watson vein but it was decided to use only Ce and La in the assessments of the Poorman and Richman soil surveys in an effort to shorten the length of this document.

The response of the elements Au, Ag, As, Ca, Ce, K, La, Sb, Sr and U over the 1 and/or Watson vein varied considerably in intensity. As and Sb displayed a generally low response with maximum values only being 6 and 3 times the detection limit respectively. Other elements in the group such as Ag, Ce, La and U gave a low-resolution response in which peak values were not greatly higher than the background concentration. For example, peak values for La and Ce ranged only 1 to 1.5 ppm more than the lows in the survey while Ag and U displayed resolutions of < 0.06 ppm.

Other elements occurred in measurable amounts but displayed ambiguous results in the orientation survey. Barium and Zn for example displayed peak concentrations at or near the centre for one of the two traverses and a high value at the periphery of the traverse. However, Ba values were considered in the assessment of soil surveys in the Richman and Poorman areas. This was done because the peripheral high-Ba value recorded in the orientation traverse over the Watson vein occurred down slope from the vein trace and may reflect dispersion from that structure.

Cu, Fe, Mn, P, Pb, and Th were also elevated above the detection limit over the 1 and/or Watson vein but displayed even more confusing profiles with multiple, poorly formed or indistinct peaks occurring at the edge of the traverse. The analytical results for this group of elements was considered to be inconclusive and their concentrations may not necessarily be related to the mineralization. Cu and Pb results were contoured for the Richman soil grid but were regarded with caution.

In assessing the results of the orientation survey it must be mentioned that no duplicate sampling and analyses were done. These were avoided in order to minimize costs. Therefore the reproducibility of the data has not been estimated.

#### 1) South and Southeast of Flapjack Peak – Poorman Area

Prospecting of the ground in this area revealed that it is largely covered by glacial drift. Rock outcrop occurrences are generally confined to stream banks and topographic highs. Examples of feldspar +/-pyroxene porphyritic dacite and andesite (unit 2: Figure 2), outwardly similar to volcanic rocks found on Blackdome Mountain are present east and southeast of Flapjack Peak. Dark variably feldspar and pyroxene porphyritic basalt overlies the dacite and andesite on Flapjack peak and to the south along the Hungry Valley-Roaster Lake drainage.

#### Stream Sampling - Heavy Mineral Concentrates

No significant Au values were obtained from the heavy mineral concentrates collected in the targeted drainage. The Au values obtained were <10 ppb and close to the detection limit. Table 2 summarizes the results.

Table 2: Au content	of heavy mineral
pan concentrates,	Poorman area.

SAMPLE	Au
	(ppb)
PMH 1	<10
PMH 2	<5
PMH 3	5
PMH 4	5
PMH 5	<10
РМН 6	<10

#### Soil Geochemistry Results

The soil samples taken on the Poorman grid were of the B-horizon and analyzed by cold hydroxylamine leach followed by multi-element ICP analysis. The samples were also analyzed for Au by fire assay performed on a split of the -80 mesh fraction. All analyses and preparatory work were performed by ALS-Chemex Ltd., North Vancouver, B.C.

The results of the soil sampling on the ridge top are summarized below. Soil sample locations and results for selected elements are given in Appendix II. Figure 4a depicts the trace of the ridge top and the location of one outcrop of feldspar-porphyritic dacite found near the ridge crest. Figures 4b to 4j provide contoured plots of the results for selected elements.

A simple statistical analysis was done of the soil data and assumed that the results were normally distributed. More involved methods were avoided as the database only consists of 49 samples for most elements. Au was analyzed for 56 samples as 7 more samples were added later as a follow-up. Table 3 summarizes the average, median, 0.9 percentile, maximum and

correlation for selected elements. A set of contoured plots for Au, Ag, Ba, Ca, Ce, K, La, Sr and U in the Poorman soil samples was also prepared (Figures 4b - 4j).

In general, Au, Ag, Ba, Ca, Ce, K, La, Sr and U concentrations were elevated well above the detection limit in scattered samples. As a first pass treatment of the data the 0.9 percentile concentrations for these 9 elements were treated as anomalous. This threshold was approximately equivalent to or higher than the peak concentrations obtained in the orientation survey over the 1 and Watson veins for Ba, Ca, Ce, La, Sr and U (compare Table 2 & 3). Unfortunately, As and Sb, generally good pathfinders for epithermal Au mineralization and found to be elevated above the 1 and Watson vein at Blackdome Mountain were not present in concentrations significantly above the detection limit in any of the soil samples on the Poorman grid (see Appendix II). Indeed, As and Sb were so low that they were not contoured. Ag concentrations on the Poorman grid were also below those found over the 1 or Watson vein (compare Table 1 and 3).

There tended to be a general lack of correlation between Au, Ag, Ba, Ca, Ce, K, La, Sr and U and other elements (see Table 3). In examining contoured plots for Au, Ag, Ba, Ca, Ce, K, La, Sr and U (Figures 4b - 4 there was also poor correlation between the pathfinder elements at higher concentrations in the soil samples on the Poorman soil grid. Only element pairs that are known to co-exist in similar phases or that share similar chemical characteristics, such as Ca and Sr, displayed significant correlation. Samples containing high concentrations (i.e. those ranging from above average to maximum for the Poorman survey) of Ag, Ba, Ca, K, Ce, La and U, were generally localized and non-contiguous.

More specifically, two isolated soil samples on the Poorman soil grid contained 25 ppb Au (Figure 4b). All the rest of the samples taken contained 5 or <5 ppb Au. Examination of the soil taken at the two sites with the anomalous Au revealed that it contained quartz fragments. One of the anomalous Au sites at 0+00 E and 04+00 N was accompanied by a flanking 10 ppb Au result (Figure 4b & Appendix II). That same sample contained anomalous K (250 ppm: Figure 4i) and an above average concentration of Ba (~75 ppm: Figure 4d). Contouring of the Ba data displays a northeast elongated trend of anomalous values running just to the west of the northern anomalous Au sample site (Figure 4d). Similarly contoured plots of Ce (Figure 4g), La (Figure 4h), U (Figure 4j) and possibly K (Figure 4i) display oriented but weaker

	Au	Ag	As	Ba	Ca	Ce	Cu	Fe	Hg	κ	Mn	P	Pb	Rb	Sb	Sr	Th	U	Zn	La
	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Average =	3.8	0.007	0.05	55	1003	1.7	0.39	419	0.05	122	66	77	0.5	0.29	0.0025	15.34	0.03	0.039	32	071
Median ≕	2.5	0.006	0.05	52	950	1.3	0.35	390	0.05	110	19	65	0.4	0.28	0.0025	14 65	0.03	0.035	3.0	0.59
Percentile (0.9) =	5.0	0.016	0.05	86	1382	3.1	0.55	629	0.05	189	154	138	0.8	0.45	0.0025	21.02	0.07	0.000	4.4	1 47
Maximum =	25.0	0.024	0.10	98	2740	5.4	1.05	805	0.05	250	894	220	1.3	0.58	0.0025	44.10	0.12	0.135	6.0	2.08
Correlation	Au	-0.15	-0.04	0.15	-0.16	0.06	0.02	-0.09	0.00	0.23	0.18	-0.15	-0.13	-0.01	0.00	-0.12	0.16	0.02	0.21	0.04
		Ag	0.18	0.07	0.52	0.54	0.59	0.54	0.00	0.09	0.17	0.37	0.49	0.43	0.00	0.15	0.07	-0.02	0.30	0.04
			As	0.29	0.08	0.25	0.10	0.29	0.00	0.12	-0.05	0.40	-0.05	0.29	0.00	0.02	0.33	0.14	0.08	0.27
				Ba	0.20	0.32	0.30	0.42	0.00	0.24	0.09	0.38	-0.08	0.55	0.00	0.24	0.50	0.22	0.17	0.42
					Ça	0.53	0.63	0.27	0.00	0.16	0.36	-0.06	0.46	0.13	0.00	0.81	-0.10	0.54	0.26	0.53
						Ce	0.63	0.30	0.00	0.01	0.50	0.17	0.63	0.37	0.00	0.37	0.24	0.67	0.20	0.95
							Cu	0.43	0.00	0.09	0.23	0.11	0.41	0.38	0.00	0.32	0.10	0.90	0.30	0.66
								Fe	0.00	0.36	0.06	0.78	0.11	0.72	0.00	-0.03	0.57	0.43	0.25	0.36
									Hg	0.00	0.00	0.00	0.00	0.00	-1.00	0.00	0.00	0.00	0.00	0.00
										ĸ	0.01	0.30	-0.06	0.16	0.00	0.13	0.12	-0.01	-0.12	0.07
											Mn	-0.18	0.64	0.13	0.00	0.31	-0.09	0.27	0.19	0.37
												Р	-0.07	0.60	0.00	-0.26	0.61	0.14	0.00	0.27
													PD	0.09	0.00	0.37	-0.12	0.49	0.25	0.50
														RO	0.00	-0.06	0.56	0.47	0.25	0.40
															50 [	0.00	0.00	0.00	0.00	0.00
																3	-0.11	0.21	0.17	0.45
																	(	13	0.02	0.33
																		U 1	7n	0.04
																			Part 1	La
																				1

Table 3: Poorman soil grid - average, median, 0.9 percentile, maximum and correlation for selected elements.

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~>Avg.

~>0.9 Perc.



~>Avg.

~>0.9 Perc.



~>Avg.

~>0.9 Perc.

17



~>0.9 Perc.

elongated trends. These run over or beside the anomalous Au sample at 0+00 E and 04+00 N and this opens the possibility that there is a northeasterly striking structure underlying the western portion of the grid (see dotted line on Figures 4b & 4d). Unfortunately, As and Sb are near the detection limit for the northern anomalous Au sample and for all samples taken on the grid. One would expect both As and Sb to be elevated above the detection limit as they were over the 1 and Watson veins if a mineralized structure were present.

#### 2) Richman Area

Examination of the area to the west of the old Lexington baseline revealed the presence of a partially reclaimed trench close to a prominent outcrop of porphyritic dacite volcanics. Abundant limonite-stained vuggy quartz-rich float was lying on surface in the area of the reclaimed trench (unit 2: Figure 3). Two samples were taken of this material. Other quartz float was found and sampled on the 1050 S soil line at about 140 m E (Figure 3) The samples were analyzed for Au using fire assay with an AA finish and by ICP for 32 elements at ALS-Chemex Ltd., North Vancouver, B.C. The analytical results for the three float samples (No. 267858-860) for selected elements are contained in Table 4 below.

SAMPLE	Au ppb	Ag ppm	As ppm	Ba ppm	Cu ppm	Pb ppm	Sb ppm	Zn ppm
267858	40	3.2	84	30	48	298	<2	6
267859	40	1.8	84	40	69	32	<2	22
267860	10	6.4	22	10	7	14	2	4
267861	<5	9.6	<2	10	3	754	<2	96

Table 4: Analyses of quartz float - Richman area.

The Au results of all three samples were low (40 ppb or less) but can still be termed anomalous. Silver contents ranged from 3.2 to 6.4 ppm and Pb was significantly elevated at 298 ppm in one sample.

Several drill holes (88-6, 7, 8 & 12) were drilled near the area containing the quartz float (Figure 3) by Lexington Resources Ltd. in 1988. Holes 88-6, 7 and 8 intersected a quartz-sealed brecciated zone several metres wide. Au values in the quartz-sealed breccia were low

(<5 ppb) but Hg was anomalous at up to 200 ppb. This mineralization may be the source for the quartz float found on surface near the outcrop of (unit 2) dacitic volcanics (Figure 3). If this quartz-rich brecciated zone has a northeasterly strike similar to the veins at the Blackdome Mine then it would extend across the three soil lines (dashed line on Figure 3) possibly beneath the other quartz float found on line 1050S at 140E.

Another occurrence of quartz float was found while staking the Richman 2 mineral claim group. This occurrence was found along the southern boundary of the claim (Figure 1: sample 267861 - Table 4). It was submitted for the same analysis as the other samples of quartz float from the Richman area. This specimen contained negligible Au (<5 ppb) but elevated amounts of Ag (9.6 ppm) and Pb (754 ppm).

#### Soil Geochemistry Results

The soil samples from the Richman grid (lines 1000S, 1050S & 1100S: Figure 3) were analyzed by cold hydroxylamine leach followed by multi-element ICP analysis at ALS-Chemex Ltd., North Vancouver, B.C. No Au analyses were performed. Lexington Resources Ltd. did gold analyses of soils previously and it was known that Au was anomalous in the area sampled. The average, median, 0.9 percentile, maximum and correlation for selected elements are given in Table 5.

Like the Poorman soil data, the Richman results generally display a poor correlation between the pathfinder elements used in this study including Ag, As, Ba, Ca, Ce, K, La and U (Table 5). Copper, Pb and Zn were also used in the assessment of the Richman soil data and these also displayed a lack of correlation with each other and the other elements.

In general peak Ag, Ba, Ca and Sr concentrations on the Richman soil grid were below those found in the orientation traverses over the 1 and Watson veins, while Ce, La, K and U were roughly similar. Arsenic was generally present at very low concentrations in most samples taken but did achieve concentrations of up to 0.4 ppm in a few samples, which is about equivalent to peak concentrations over the 1 vein. Antimony occurs at very low concentrations; it is generally at or below the detection limit of 0.005 ppm (Appendix III) and was not contoured.

	Ag	As	Ba	Ca	Ce	Cu	Fe	Hg	к	Mn	Р	Pb	Rb	Sb	Sr	Th	υ	Zn	La
	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm						
Average =	0.025	0.11	18	156	1.75	0.48	212	0.05	52	15	95	0.9	0.33	0.0029	2.54	0.08	0.037	3.4	0.88
Median =	0.025	0.10	16	150	1.80	0.45	178	0.05	43	10	88	0.8	0.32	0.0025	2.28	0.08	0.035	3.0	0.87
Percentile (0.9) =	0.038	0.20	29	280	2.53	0.64	373	0.05	105	27	150	1.4	0.42	0.005	3.90	0.14	0.045	6.3	1.24
Maximum =	0.046	0.40	32	310	3.44	0.75	560	0.05	135	89	290	2.1	0.47	0.005	6.55	0.15	0.065	9.2	1.72
Correlation	Ag	-0.25	-0.24	0.00	-0.14	0.45	0.01	0.00	-0.15	-0.09	-0.14	-0.09	0.08	-0.09	0.19	-0.19	-0.04	0.12	-0.12
		As	0.12	-0.11	-0.12	-0.26	-0.20	0.00	-0.02	-0.15	0.23	-0.19	0.14	-0.02	-0.21	-0.02	-0.18	-0.30	-0.12
			Ba	0.07	0.31	-0.31	-0.39	0.00	-0.06	-0.15	-0.19	-0.36	0.08	-0.17	0.22	-0.38	0.00	-0.21	0.31
				Ca	-0.02	0.11	0.27	0.00	0.32	0.15	0.12	-0.05	0.24	0.22	0.66	-0.10	-0.20	0.21	0.07
					Ce	-0.02	-0.31	0.00	-0.10	-0.08	-0.04	-0.05	-0.08	-0.22	-0.02	0.06	0.25	-0.19	0.98
						Cu	0.38	0.00	0.12	0.26	-0.08	0.30	0.15	0.10	0.16	0.17	0.28	0.29	0.00
							Fe	0.00	0.25	0.30	0.37	0.33	0.01	0.39	0,37	0.61	0.36	0.58	-0.30
								нg	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
									ĸ	0.38	0.00	0.18	0.55	0.19	0.04	0.30	-0.02	0.30	-0.09
										win	-0.03	0.59	0.40	0.32	0.10	0.23	0.24	0.27	-0.07
											٣	-0.02	-0.17	0.00	-0.07	0.52	-0.15	0.24	~0.04
												PD -	0.20 Ph	0.35	0.00	0.31	0.34	0.35	-0.00
														0.00 Sh	0.17	0.03	0.12	0.17	-0.01
														00	0.20 Sr	-0.03	0.05	0.42	0.04
															01	Th	0.17	0.50	0.04
																•••	U	0.05	0.18
																	-	Zn	-0.17
																			La
																			I

Table 5: Richman soil grid - average, median, 0.9 percentile, maximum and correlation for selected elements.

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Contour plots of Ag, As, Ba, K, Ca, Sr, Ce, La, Cu, Pb, Zn and U in the Richman soils are presented in Figure 5. Above average concentrations were shaded. Values above the 0.9 percentile figure are shown in black on Figure 5.

Like the Poorman soil data the Richman soil results display poor correlation between peak concentrations of the elements plotted. However, contouring does reveal some weak linear trends formed by above average concentration for some elements. These trends were found in Ag (Figure 5a), Ce (Figure 5g), La (Figure 5h), Cu (Figure 5I) and Zn (Figure 5 k) concentrations occurring between 0 and 200 E on the grid. There was partial overlap of the linear trending higher Ag, Cu and Zn concentrations between 75 and 100 E on the Richman grid. Some higher concentrations of As, Ba, Ca, Sr and K also occur in the area between 0 and 200E. These results suggest that there may be a northeast trending mineralized structure underlying the grid between about 0 to 200E. This structure could be the one that was drilled to the south next to the volcanic outcrop (unit 2: Figure 3).

#### 3) Area along the Hungry Valley and South of Roaster Lake

Several known showings located along and to the north of the road along the Hungry Valley were examined. These included the Mike on the north shore of Roaster Lake and the Geo and HWP showings further to the north within the recently staked Richman property. These zones were comprised of north to northeast trending steeply dipping argillically altered faulted zones within dacitic to andesitic volcanics, which are part of the Eocene package similar to the volcanics found at Blackdome Mountain. The altered fault zones contained small (<2 cm) quartz and chalcedony veinlets. Pyrite occurred locally in the quartz veinlets of the Geo and HWP zone. Previous samples taken by McClintock and Hardy Engineering Ltd. returned low Au values (<20 ppb) and sporadic high Hg (up to 11000 ppb) and As (up to 250 ppm). After the field examination it was decided not to re-sample these showings as the veining is poorly developed and the previous sampling is fairly comprehensive. No other new mineralized structures were identified in traverses done along the Hungry Valley.

A prospecting traverse was conducted starting southward from Roaster Lake extending upwards towards Red Mountain. The area immediately south of Roaster Lake is underlain by conglomerate of the Jackass Mountain Group. Further to the south Miocene basalts of the Chilcotin Group cap the conglomerate. Several northeast trending faults cut the upper Miocene basalts about 3 km south of Roaster Lake. These structures formed recessive areas that were traceable for several hundred metres on surface; a few, occurring at higher elevation on the north and west-facing slopes of Red Mountain, were argillically altered and stained by iron oxides. One of these structures, dubbed the Marco showing (Figure 1) by previous workers (Hardy and Van Wermeskerken, 1989), measured about 50 m wide and contained several mineralized zones (up to several metres wide) consisting of quartz-sealed breccia, vuggy crustiform quartz stringers and chalcedony veinlets. Minor pyrite was noted in the quartz and altered wall rock. Seven chip samples were taken of the more quartz-rich subcrops and outcrops of the Marco zone. These samples were composed of grabs from subcrop and chip samples across outcrop. The chip samples ranged from 0.2 to 2 m wide. All were analyzed at ALS-Chemex Ltd., North Vancouver. Au concentration was determined by fire assay with an AA finish. Other elements were analyzed by 32 element ICP. All the samples taken contained low Au (<5 ppb) and Ag (<0.2 ppm) concentrations. The results for Au, Ag and other selected elements are summarized in Table 6 below.

SAMPLE	type	Au	Ag	As	Ba	Cu	Pb	Sb	Zn
فسترجيع والفانة أشتب وتعريب المراجع	width	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm
267851	grab	<5	<0.2	46	70	4	<2	<2	18
267852	grab	<5	<0.2	22	50	4	<2	<2	32
267853	0.35 m	<5	<0.2	14	30	4	<2	2	58
267854	0.2 m	<5	<0.2	6	50	3	<2	<2	18
267855	2 m	<5	<0.2	6	60	3	<2	<2	30
267856	2 m	<5	<0.2	36	110	8	2	<2	58
267857	2 m	<5	<0.2	22	90	6	<2	<2	48

Table 6: Analyses of mineralization from the Marco showing.

No other significant mineralized occurrences were found in the area to the south of the Marco showing. A number of pale coloured felsic dykes were noted cutting the older volcanic rocks on the slopes of Red Mountain. The dykes trended in several directions and displayed variable degrees of argillic alteration, especially at their edges. Unfortunately no silicification or other significant mineralization was noted along or within them.

#### 4) French Mountain and Pony Valley Area

An attempt was made to access this area (see Appendix V: Day 14). The road and trails leading into the area shown on the topographic maps proved to be overgrown and walking was very slow. It was decided to turn back, as the slow rate of progress would have meant returning to camp in darkness. It is planned to access the area sometime in the future via Red Mountain, which is a shorter route and one which is mostly above the tree line and easier navigable.

#### **CLAIM STAKING**

Examination of outcrop, subcrop and previously drilled core in the Richman area revealed the existence of several faulted clay altered structures. Some contained vuggy quartz stringers and quartz-sealed breccia zones. It was decided that this area has good Au-bearing potential and forty-four lode claims were staked to cover this area. The new claims were divided into three blocks named the Richman 1 (20 units), Richman 2 (20 units) & Richman 3 (4 units). They cover an area that was previously included in the northern portion of the old EH and the Bobcat claims (not shown). The Richman claim group adjoins the Blackdome property, which lies to the east (Figure 1).

#### **CONCLUSIONS AND RECOMMENDATIONS FOR FUTURE WORK**

1) Heavy mineral pan concentrates of the drainage containing the 57 ppb Au B.C. RGS anomaly did not yield any significant results. The negative result suggests that no Au-bearing veins were eroded in this drainage. Au-bearing veins may still be present but may be masked by glacial drift; another sampling technique may be necessary for their detection.

In general, the Poorman area, south and southeast of Flapjack Peak, is difficult to explore given the extensive glacial drift present. Conventional soil geochemistry is unlikely to prove helpful as an exploration tool as results would tend to reflect drift composition. Previous conventional soil surveys done by Ashworth Explorations Ltd. (Leriche, 1987) only found isolated anomalous Au, Hg and Zn values. The results of soil geochemistry done in this program in the Poorman area by using cold hydroxylamine leach are also ambiguous. There is poor correlation between pathfinder elements found to be associated with the mineralization at the Blackdome Mine and other epithermal veins. Samples with anomalous concentrations of

Ag, Ba, Ca, Ce, Sr, K, La and U tended to be sporadic while As and Sb concentrations were near or at the detection limit. Contouring of the Ba, Ce, U and La geochemical data yielded one weak linear trend striking to the northeast. This trend was on line with an isolated anomalous Au result of 25 ppb.

The soil survey results may possibly be improved by increasing sample density and increasing the area covered by the grid. But this is both more expensive and a risky venture. If the area of the survey is increased then the concentration of various elements may be even more affected by changes in overburden depth, soil moisture content, rock type, etc. and this might only serve to further increase the variability and confusion.

Two higher Au results (25 ppb) were obtained from -80 mesh splits from soils on the Poorman grid. One sample was next to a 10 ppb soil sample. Quartz float was found in the sample pits of the 25 ppb samples. The isolated nature of the higher Au samples on the grid and the lack of coincidental or attendant strongly anomalous As, Sb, or Ag samples suggest that the quartz float may be of glacial origin rather than locally derived.

2) The examination of surface outcrops and drill core in the Richman area suggest that there is good potential for epithermal Au-bearing veins. Vuggy quartz-sealed breccia zones and quartz stringers are contained in sheared clay-rich fault zones. Present data suggests that they trend north to northeast, a similar orientation as those at the Blackdome Mine. They also are mineralogically and texturally somewhat similar to those found at Blackdome.

Quartz float found on surface and soil geochemistry suggests that there may be a mineralized quartz-sealed breccia zone running northeast beneath the Richman soil grid. This structure may be the one intersected in Holes 88-6, 7 & 8 drilled by Lexington Resources Ltd. Conversely it may be a separate structure lying slightly further to the west of these holes. Holes 6, 7, 8 and 12 were drilled at a bad angle (067 deg. Azimuth) and may have missed a portion of any northeast trending mineralization. In addition there is a lack of complete drill coverage between the volcanic outcrop (unit 2: Figure 3) and the old Lexington baseline to the west.

Heine (1988b) has reported that the clay-rich nature of the faulted zones, the lack of wellformed vein structures and low Au content may be due to the samples being taken at too high an elevation and he suggests that Au grades of these structures may increase at depth. The property has not been comprehensively covered by soil geochemistry at lower elevation. To date the areas sampled by drilling and trenching lie at elevations from above 1950 down to about 1800 m. This covers the productive elevation range for Au at the Blackdome Mine. However, the mineralization in the Richman area may be related to a different hydrothermal cell and therefore there is still a possibility of finding higher Au grades at lower elevation. Future prospecting of the Richman claims should include efforts to find mineralized float and to do more soil sampling in an effort to locate Au-bearing veins cutting the slopes below the existing showings.

3) Despite the disappointing geochemical results of the Marco showing the area south of the Roaster Lake and the Hungry Valley should be further explored. The mineralization of the Marco showing is contained within a large fault, which trends northeast (~010-045 deg. azimuth), a similar direction as those faults hosting the Au-bearing quartz veins at Blackdome Mountain. The quartz and chalcedony stringers and quartz-sealed breccias within the faulted zone bear a resemblance to the productive veins in the Blackdome mine. The fault containing the Marco zone can be traced at least several hundred metres and appears to be paralleled by other similar structures to the north of the Marco Showing. All these structures should be further examined; for float on surface and by geochemical soil surveys in order to determine their Au potential.

<u>4</u>) Additional geological examination of the ground in the southern part of the Richman claim group and adjoining land southward to the Hungry Valley Fault (formerly covered by the EH claims) should be conducted. Quartz float containing anomalous Ag and Pb was collected on the southern boundary of the Richman 2 claim block. Previous work on the EH claims by McClintock/Hardy Engineering Ltd. for Ballatar Explorations Ltd. (Hardy and Van Wermeskerken, 1989) identified several high Hg anomalies in soil and silicified outcrop in this area. Samples of the latter have so far returned low Au values but this does not necessarily rule out high-grade mineralization along strike or at depth. Selective closer-spaced soil sampling could be used to better define existing anomalies.

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5) Duplicate soil samples should be analyzed for the orientation survey in order to determine the reproducibility of the results for each element using the leach methods employed in the reported surveys. Many of the elements tested by the leach methods occurred at very low concentrations and often showed a restricted range of concentration. The replicate analyses would help to determine if the higher or anomalous values reported here truly exceed background variability.

#### COSTS OF PROSPECTING PROGRAM

The costs of the prospecting program for the Roaster Lake area are summarized in Table 7.

Table 7: Costs of 2000 prospecting program, Blackdome - Roaster Lake area.

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## **APPENDIX I: Soil Sampling Orientation Survey**

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Results of sample traverses over the 1 and Watson veins, Blackdome Mountain

## Appendix 1: Orientation Survey

## **1 Vein Geochemical Results**

-	Sam	ple	IV-1	IV-2	IV-3	IV-4	IV-5	IV-6	IV-7	IV-8	IV-9	Det. Limit =	Max. =
-			0	25	50	75	100	125	150	175	200 m		
Au	ppb		<5	<5	5	<5	<5	5	<5	<5	<5	5	5
Ag	ppm	· •	0.034	0.036	0.04	0.044	0.056	0.052	0.046	0.066	0.046	0.002	0.066
Al	ppm		3530	4340	2190	4540	2010	3180	2130	4320	1895	1	4540
As	ppm	·	<b>&lt;0</b> .1	0.1	0.1	0.3	<0.1	0.3	<0,1	0.1	<0.1	0.1	0.3
Au	ppm	-	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	0.05	<0.05
Ba	ppm		6.3	9.95	7	6.3	6.65	7.3	7.4	7.15	9.5 <del>5</del>	0.05	9.95
Be	ppm		0.05	0.05	0.1	0.1	0.05	0.05	0.05	0.05	0.05	0.05	0.10
Bi	ppm		<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	0.005	<0.005
Br	ppm		<2	<2	<2	2	<2	<2	<2	<2	<2	2	2
Ca	ppm		20	120	<10	30	10	160	130	<10	350	10	350
Cd	ppm	1	0.02	<0.01	0.01	0.01	0.01	0.02	<0.01	0.01	0.03	0.01	0.03
Ce	ppmi	1	0.955	0.995	0.685	1.14	1.16	0.93	1.26	0.635	1.54	0.005	1.540
Co	ppm		0.25	0.05	0.1	0.05	0.05	0.2	0.1	<0.05	0.15	0.05	0.25
Cr	ppm		0.75	0.5	0.4	0.85	0.3	0.7	0.4	0.55	0.2	0.05	0.85
US	ppm		0.025	0.02	0,055	0.055	0.12	0.305	0.455	0.025	0.06	0.005	0.455
Cu	ppm		0.8	0.55	Q.4	0.55	0.4	0.65	0.85	0.25	0.5	0.05	0.85
Dy	ppm		0.095	0.09	0.055	0.075	0.085	0.065	0.085	0.05	0.12	0.005	0.12
	ppm		0.04	0.04	0.02	0.025	0.03	0.02	0.03	0.025	0.045	0.005	0.045
	ppm		0.02	0.025	0.01	0.02	0.02	0.015	0.02	0.01	0.025	0.005	0.025
79 04	ppm		270	170	370	270	150	490	325	160	135	5	490
Ga	ppm		0.11	0.145	0,075	0.1	0.115	0.075	0.125	0.07	0.155	0.005	0.155
Hg	ppm	•	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	0.1	<u.1< td=""></u.1<>
HO	ppm	``	0.015	0.015	0.005	0.015	0.015	0.01	0.015	0.01	0.02	0.005	0.020
1	ppm	ана на 14	0.9	8.0	0.6	1.5	0.5	8.0	0.6	1	U.4 70	0.1	1.5
	ppm		30	15		20	20 20 05	40	23	40	7U 0.4	3	70 0.46
ابا ا با	ppmi	1	U.U5	0.1	<0.05	0.05	<0.05	0.15	0.05	0.05	U.1	0.05	<0.10
Lu	ppm		C00.0>	<0.005	<0.005	<0.005	<0.005	CUU.U>	<0.005	<0.005	CUU.U>	0.005	CUU.U>
Mo	ppm		12	10	9	5	14	21	10	1	33	1	33
Mo	ppm		40.1	3.4 <0.01	9.9 ~0.01	3.7 <0.01	-0.01	22.0 20.01	<0.1	~0.01	20 20 01	0.1	40.1 <0.01
Na	ppm		-0.07	-0.01	10	-0.01	~0.01	-0.01	-0.01	-0.01	10	10	-0.01
Nh	ppm		0.01	<0.01	<0.01	0.03	<0.01	0.01	<0.01	<0.01	<0.01	0.01	20 0.03
Nd	nnm	,	0.67	0.565	0.29	0 445	0.56	0.33	0.52	0.295	0.765	0.005	0.765
Ni	ppm	,	0.02	0.000	0.20 0.15	0.440	0.15	0.00	0.25	0.25	0.4	0.005	0.100
P	nom	}	45	90.20	65	125	25	95	20	40	50	5	125
Ph	nnm		0.8	04	0.9	04	0.9	04	0.6	1	0.5	- 01	10
Pr	ppm		0 13	0.15	0.075	0.12	0.15	0.09	0.14	0.08	0.2	0.005	0.20
Rb	ppm	ŕ	0.36	0.10	0.64	0.55	0.59	0.64	0.6	0.52	0.72	0.01	0.72
Sh	ppm		<0.005	<0.005	<0.005	0.005	<0.005	<0.005	<0.005	0.01	<0.005	0.005	0.01
Se	ppm		<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	0.5	<0.5
Sm	ppm	l	0.1	0.11	0.065	0.1	0.11	0.07	0.11	0.065	0.17	0.005	0.17
Sn	ppm		<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	0.05	<0.05
Sr	ppm		0.85	12	0.7	0.5	1.25	15	0.95	1 1	2.05	0.05	2.05
Th	ppm		0.015	0.02	0.01	0.02	0.02	0.01	0.02	0.01	0.025	0.005	0.025
Te	ppml	l	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	0.05	<0.05
Те	ppm		<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	0.05	<0.05

Th	ppm		0.04	0.05	0.03	0.11	0.01	0.06	0.04	0.06	0.01	0.01	0.11
Ti	ppm		4	2	2	4	1	3	2	2	1	1	4
	Sam	ple	IV-1	IV-2	IV-3	<u>IV-4</u>	IV-5	IV-6	<u>IV-7</u>	IV-8	IV-9	Det. Limit 🖻	Max. =
			C.	25	50	75	100	125	150	175	200 ו	n	
τı	ppm		0.005	<0.005	0.005	0.005	<0.005	0.005	0.005	0.005	0.005	0.005	0.005
Tm	ppm	 	0.005	0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	0.005	0.005	0.005
U	ppm		0.03	0.02	0.02	0.03	0.03	0.045	0.015	0.02	0.02	0.005	0.045
V	ppm		0.8	0.4	0.25	0.25	0.2	0.45	0.25	0.25	0.3	0.05	0.80
W	ppm		<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	0.01	<0.01
Yb	ppm		0.035	0.025	0.015	0.02	0.015	0.015	0.02	0.015	0.03	0.005	0.035
Zn	ppm		9.6	6	5.6	7.4	7.8	10.2	7	5.4	5.2	0.2	10.2
Zr	ppm	,	0.6	0.55	0.3	0.9	0.2	0.5	0.3	0.75	0,25	0.05	0.90
В	ppm		<2	<2	<2	<2	<2	<2	<2	<2	<2	2	<2
Ga	ppm		0.4	0.25	0.15	0.3	0.25	0.25	0.15	0.3	0.3	0.05	0.40
Ge	ppm		<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	0.1	<0.1
Hf	ppm		0.02	0.01	<0.01	0.04	<0.01	0.01	<0.01	0.03	<0.01	0.01	0.04
In	ppm		<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	0.005	<0.005
La	ppm		0.53	0.515	0.305	0.505	0.575	0.46	0.8	0.34	0.755	0.005	0.800
Re	ppm	• .	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	0.001	<0.001
Ta	ppm		<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	0.01	<0.01
Y	ppm		0.37	0.38	0.185	0.245	0.29	0.225	0.28	0.19	0.42	0.005	0.420
pН	pН		1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5		

## Watson Vein Geochemical Results

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	Samp	le wv-1	WV-2	WV-3	WV-4	WV-5	WV-6		Det. Limit ≠	Max. =
		0	25	50	75	100	125	m	• • • • • • • • • •	
Au	ppb	<5	<5	5	<5	35	<5		5	35
Ag	ppm	0.03	0.03	0.036	0.042	0.05	0.01		0.002	0.05
Ał	ppm	4440	2400	416	918	4480	2200		1	4480
As	ppm	0.6	0.2	0.1	0.1	0.2	0.2		0.1	0.6
Au	ppm	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05		0.05	<0.05
Ba	ppm	10.3	17.3	16.05	43.3	15.5	35.4		0.0 <del>5</del>	43.3
Be	ppm	0.05	0.05	<0.05	0.05	0.2	0.05		0.05	0.20
Bi	ppm	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005		0.005	<().005
Br	ppm	<2	<2	<2	<2	<2	<2		2	<2
Са	ppm	270	300	690	1100	310	120		10	1100
Cd	ppm	0.04	0.03	0.04	0.01	0.03	<0.01		0.01	0.04
Се	ppm	0.825	0.56	1.89	2.71	1,365	1.4		0.005	2.710
Со	ppm	8.0	0.6	0.35	0.4	0.1	0.15		0.05	0.80
Cr	ppm	1.05	0.65	0.25	0.55	0.8	0.5		0.05	1.05
Cs	ppm	0.005	0.005	0.08	0.005	0.01	0.005		0.005	0.080
Cu	ppm	0.55	0.45	0.5	0.5	0.35	0.35		0.05	0.55
Dy	ppm	0.09	0.055	0.13	0.295	0.145	0.125		0.005	0.295
Er	ppm	0.04	0.025	0.065	0.145	0.075	0.06		0.005	0.145
Eu	ppm	0.02	0.01	0.04	0.08	0.025	0.025		0.005	0.080
Fe	ppm	325	415	200	315	190	170		5	415
Gd	ppm	0.11	0.07	0.21	0.415	0.16	0.15		0.005	0.415
Hg	ppm	<b>&lt;0</b> .1	<0.1	<0.1	<0.1	<0.1	<0.1		0.1	<0.1

Цa	1		0.046	0.01	0.005	0.000	0.005	0.005	0.005	0.055
	ppm		0.015	10.0	0.025	0.000	0.025	0.020	0.005	0.055
ĸ	ppm		50	125	~0.1	20	30	0.5	5	125
	ppm		0 15	<0.05	0.15	0.2	<0.05	0.05	0.05	0.20
	Sam	i nle	WW-1	WW-2	W/V-3	W//_4	WA/-5	WW/-6	Det Limit =	Max =
	oann		0	25	60	75	100	125 m	 Det. Ennit -	IV GAL
i		uninea	~0.00%	<0.005	0.005	0.015	007	0.005	 0.005	0.016
Ma	ppin	1 <u>1</u> -	~0.000	~0.003	136	134	0.000	22	0.005	134
Mis	ppm		21 7	25.2	22.8	12.4	72	27	0.1	24.5
Mo	phu		<0.01	<0.01	<0.01	<0.01	<0.0	<0.0	0.01	
Na	ppm		10.01	<0.01	-0.01	20.01	~0.01	10.01	0.01	20.01
Nb	ppm		0.04	0.01	~0.01	<0.01	<0.01	~0.01	0.01	0.01
Nd	ppm		0.01	0.01	0.07	1 8	0.01	0.01	0.01	1 800
Ni	ppm		0.41	0.3	0.155	0.1	0.075	0.000	0.005	0.40
p	ppm		215	120	-5 -5	165	145	45	5,05	214
Pb	nnm		12	1		۰. ۵ ۸	0.3	0.8	01	1 3
Pr	nnm		0.1	0.085	0 185	0.405	0 165	0.17	0.05	0.4 0 404
Rb	nnm		0.33	0.000 N 3	0.100	0.400	0.100 N 3	0.27	0.000	0.4V
Sh	ppm		0.00	<0.0	0.04	<0.005	0.05	<0.27	0.015	0.04 () 614
Se	0000		<0.5	<0.000	<0.5	<0.000	<0.5	<0.000	0.005	<0.01
Sm	ppin		-0.0 0 105	0.0	-0.0 0.10	0.4	0.145	0.15	0.0	0 AD(
Sn	opm		<0.05	<0.005	<0.15	<0.7	<0.05	<0.10	0.005	
Sr	ppm		2 65	-0.00	-0.00 6 65	14.95	4.2	~0.0J 4	0.05	0.00
Th	ppm	`	0.015	0.015	0.00	0.06	0.025	0.02	0.05	0.060
Te	ppm		<0.010	<0.015	<0.025	<0.00	<0.020	<0.02	0.005	0.000 20 04
Th	ppm		-0.00	-0.05	<0.00	-0.00 0.03	~0.00	0.03	0.03	 D D
Ti	ppin		90.0 A	0.00	-0.01	0.00 A	0.03	2	0.01	0.03
τı	ppin		<0.005	<0.005	<0.005	~0.005	<0.005	<0.005	0.005	~0.008
Tm	ppm		0.005	<0.005	0.005	-0.000	0.005	<0.005 0.005	0.005	0.000
	ppm	'	0.000	0.000	0.000	0.02	0.000	0.005	0.005	0.020
v	hhiii		0.04 0.05	0,000 0 0	0.04	1 /	0.04	0.070	0.000	(7,000
Ŵ	ppn		<0.50	<0.9	ري. د∩.∩۱	۰.+ 1.01>	، د0 ۱۱	<0.0	0.05	י.ו גרΩ ח⊳
Yh	ppm ppm		0.036	0.01	0.04	0.115	0.055	0.01	0.01	
Zn	ppm		0.000 A A	0.020	3.4	2	0.0JJ	16	0.000	0.215
Zr	ppm		0.7	0.55	0.05	0.25	0.75	0.5	0.05	0.7
B	ppm		<2	<2	<2	<2	0	<2	0.00	<
Ga	ppm		0.2	0.2	0.1	0 15	0 15	0.2	0.05	0.20
Ge	ppm		<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	0.00 ຄ.1	<0.1
Hf	ppm	·	0.03	0.02	<0.01	0.01	0.03	0.01	0.01	0.0°
In	pom		<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	0.01	<() ()
La	ppm		0.35	0.255	88.0	1.38	88.0	0.59	0.005	1 25
Re	ppm		<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	0.000	<0.00
Ta	ppm	Ì	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	0.001	<:0.001
Ŷ	npm		0.33	0.235	0.715	1.27	0.605	0.48	0.01	1 27
nH	ррпа nH		15	1.5	1.5	15	1.5	15	0.000	1.41
PH	μп	1	6.0	1.0	1.0	1.0	1.0	1.9		







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**APPENDIX II: Poorman Soil Grid – Sample Location and Results** 







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**APPENDIX III: Richman Soil Grid - Sample Location and Results** 

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	Richman Soil Geochemical Survey
	Sample Locations and Results
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	Ba
0 · · · · · · · · · · · · · · · · · · ·	Ba (ppm)
0 100 m	Ba (ppm) Appendix III Dec. 28, 2000














## **APPENDIX IV: Certificates of Analysis**

For soil, rock and heavy mineral stream samples



### ALS Chemex Aurora Laboratory Services Ltd.

Analytical Chemists \* Geochemists \* Registered Assayers

212 Brooksbank Ave., North Vancouver British Columbia, Canada V7J 2C1 PHONE: 604-984-0221 FAX: 604-984-0218

io: BORONOWSKI, ALEX

3741 ST. ANDREWS AVE. VANCOUVER, BC V7N 2A6

Page Number :1-A Total Pages :3 Certificate Date: 28-AUG-2000 Invoice No. :10024480 P.O. Number : Account CDB

Project : BLACKDOME Comments: ATTN: ALEX BORONOWSKI CC: CHRIS SEBERT

* PLEASE NOTE								CERTI	FICATE	OF AN	ALYSIS	<u>A</u>	002448	30	
SAMPLE	PREP Au ppb Ag ppm Al ppm As ppm A CODE FA+AA ICP-MS ICP-MS ICP-MS I						Ba ppm ICP-MS	Be ppm ICP-MS	Bi ppm ICP-MS	Br ppm ICP-MS	Cappm ICP-MS	Cd ppm ICP-MS	Ce ppm ICP-MS	Coppm ICP-MS	Cr ppm ICP-MS
BC 10+005 0+00E BC 10+005 0+25E BC 10+005 0+50E BC 10+005 0+75E BC 10+005 1+00E	201 202 201 202 201 202 201 202 201 202 201 202		0.006 0.016 0.024 0.024 0.038	6190 7550 3750 6670 4010	0.1 0.1 < 0.1 0.1 < 0.1 < 0.1	< 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05	18.05 14.35 23.8 11.55 16.30	0.15 0.15 0.10 0.15 0.15	< 0.005 < 0.005 < 0.005 < 0.005 < 0.005	< 2 2 < 2 < 2 < 2 < 2	200 200 170 150 300	0.02 0.04 0.03 0.02 0.07	1.525 1.725 1.980 1.175 0.920	0.50 0.50 0.05 0.20 0.60	0.95 1.35 0.55 1.50 0.95
BC 10+00S 1+25E BC 10+00S 1+50E BC 10+00S 1+75E BC 10+00S 2+00E BC 10+00S 2+25E	201 202 201 202 201 202 201 202 201 202 201 202		0.020 0.016 0.028 0.024 0.014	3590 9020 5370 4200 3610	0.3 0.1 < 0.1 0.1 < 0.1	< 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05	13.10 14.30 14.20 31.0 6.20	0.15 0.20 0.15 0.20 0.05	< 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005	< 2 2 < 2 2 < 2 2 < 2 < 2 < 2 < 2 < 2	70 110 150 300 120	< 0.01 0.04 0.03 0.03 < 0.01	1.360 2.04 1.870 2.56 2.79	0.05 0.50 0.30 0.20 0.10	0.90 1.20 0.75 0.50 0.45
BC 10+00S 2+50E BC 10+00S 2+75E BC 10+00S 3+00E BC 10+00S 3+25E BC 10+00S 3+50E	201 202 201 202 201 202 201 202 201 202 201 202		0.024 0.026 0.016 0.020 0.028	3620 7230 3860 2770 2890	0.1 < 0.1 0.1 < 0.1 0.1	< 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05	13.85 12.25 23.3 31.1 14.10	0.05 0.15 0.15 0.05 0.10	< 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005	< 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	70 190 20 100 310	0.01 0.04 < 0.01 < 0.01 0.01	0.725 2.33 1.860 1.435 0.845	0.05 0.15 0.10 0.05 0.10	0.75 1.00 0.60 0.50 0.45
BC 10+505 0+00E BC 10+505 0+25E BC 10+505 0+50E BC 10+505 0+75E BC 10+505 1+00E	201 202 201 202 201 202 201 202 201 202 201 202		0.012 0.016 0.014 0.044 0.022	9380 8030 7450 5660 6350	0.1 0.1 0.2 0.1 0.1	< 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05	18.90 14.65 20.5 11.95 14.80	0.10 0.15 0.15 0.05 0.05	< 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005	< 2 < 2 < 2 < 2 < 2 < 2 < 2 < 2	150 230 230 240 230	0.01 0.03 0.03 0.05 0.03	1.540 1.590 2.02 0.940 1.245	0.15 0.25 0.40 0.35 0.20	1.40 1.05 1.10 1.25 1.30
BC 10+508 1+252 BC 10+508 1+508 BC 10+508 1+752 BC 10+508 2+002 BC 10+508 2+252	201 202 201 202 201 202 201 202 201 202 201 202		0.032 0.038 0.024 0.022 0.030	2310 4710 5200 5860 4210	< 0.1 0.1 < 0.1 0.1 0.1	< 0.05 < 0.05 < 0.05 < 0.05 < 0.05	29.1 12.25 11.55 17.90 11.55	0.15 0.15 0.10 0.20 0.10	< 0.005 < 0.005 < 0.005 < 0.005 < 0.005	< 2 < 2 2 < 2 < 2 < 2 < 2 < 2	300 50 140 70 210	0.05 0.03 0.03 0.02 0.03	3.44 1.875 1.475 2.53 1.275	0.35 0.55 < 0.05 0.05 0.05	0.55 0.95 0.90 0.80 0.75
BC 10+50S 2+50E BC 10+50S 2+75E BC 10+50S 3+00E BC 10+50S 3+25E BC 11+00S 0+00E	201 202 201 202 201 202 201 202 201 202 201 202		0.046 0.038 0.034 0.038 0.022	2790 3850 4400 4080 5150	< 0.1 0.1 0.1 0.1 0.1 0.1	< 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05	18.00 19.40 19.60 14.30 17.55	0.05 0.15 0.10 0.05 0.10	< 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005	< 2 < 2 < 2 < 2 < 2 < 2 < 2 < 2 < 2 < 2	140 160 110 160 130	0.02 0.01 0.01 0.01 0.01	1.065 1.820 1.960 0.965 1.185	0.10 0.15 0.05 0.30 0.20	0.50 0.55 0.60 0.75 1.05
BC 11+00S 0+25E BC 11+00S 0+50E BC 11+00S 0+75E BC 11+00S 1+00E BC 11+00S 1+25E	201 202 201 202 201 202 201 202 201 202 201 202 201 202		0.026 0.012 0.040 0.026 0.030	4830 4190 4120 6350 4540	0.2 0.1 < 0.1 0.1 0.1 0.1	< 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05	25.1 32.3 16.45 13.40 13.95	0.15 0.10 0.05 0.20 0.15	< 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005	< 2 < 2 < 2 < 2 < 2 < 2 < 2 < 2 < 2 < 2	70 170 40 70 140	0.03 0.01 0.06 0.02 0.01	2.46 1.715 1.790 1.580 2.01	0.15 0.15 0.25 0.60 0.10	0.75 0.65 0.70 1.20 1.05
BC 11+005 1+502 BC 11+005 1+75E BC 11+005 2+00E BC 11+005 2+25E BC 11+005 2+50E	201 202 201 202 201 202 201 202 201 202 201 202		0.034 0.030 0.008 0.034 0.026	6360 6950 1445 4600 2770	0.1 < 0.1 0.2 0.1 0.1	< 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05	15.85 18.80 20.1 8.55 16.45	0.10 0.05 0.05 0.05 0.05	< 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005	< 2 < 2 < 2 < 2 < 2 < 2 < 2 < 2 < 2	40 280 250 < 10 110	0.01 0.04 < 0.01 0.01 0.01	2.48 2.64 1.810 1.505 1.865	0.15 0.35 0.05 0.05 0.10	1.05 1.10 0.35 0.70 0.45
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CERTIFICATION:

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\* 0.1M NH2OH.HCI IN 0.04M HNO3. 1g/20ml FOR 2 HOURS @ ROOM TEMPERATURE.



Analytical Chemists \* Geochemists \* Registered Assayers 212 Brooksbank Ave., North Vancouver British Columbia, Canada V7J 2C1 PHONE: 604-984-0221 FAX: 604-984-0218

I'o: BORONOWSKI, ALEX

3741 ST. ANDREWS AVE. VANCOUVER, BC V7N 2A6

Page Numper :1-B Total Pages :3 Certificate Date: 28-AUG-2000 Invoice No. :10024480 P.O. Number : CDB Account

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Project : BLACKDOME Comments: ATTN: ALEX BORONOWSKI CC: CHRIS SEBERT

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PLEASE NOTE									FICATE	UF AN	ALISIS	) <i>F</i>	1002440	50	
SAMPLE	PREP CODE	Cs ppm ICP-MS	Cu ppm ICP-MS	Dy ppm ICP-MS	Er ppm ICP-MS	Eu ppm ICP-MS	Fe ppm ICP-MS	Gđ ppm ICP-MS	Hg ppm ICP-MS	Ho ppm ICP-MS	I ppm ICP-MS	K ppm ICP-MS	Li ppm ICP-MS	Lu ppm ICP-MS	Mg ppm ICP-MS
BC 10+00S 0+00E BC 10+00S 0+25E BC 10+00S 0+50E BC 10+00S 0+75E BC 10+00S 1+00E	201 202 201 202 201 202 201 202 201 202 201 202	0.015 0.015 0.015 0.005 0.010	0.50 0.55 0.35 0.45 0.65	0.140 0.130 0.185 0.105 0.085	0.060 0.055 0.075 0.050 0.035	0.035 0.030 0.045 0.030 0.020	380 375 160 480 340	0.170 0.165 0.250 0.135 0.100	< 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1	0.025 0.025 0.035 0.020 0.015	0.6 1.0 0.4 1.0 0.5	90 55 20 55 30	0.15 0.15 < 0.05 < 0.05 0.25	0.005 0.005 0.005 0.005 < 0.005	25 17 16 19 36
EC 10+00S 1+25E EC 10+00S 1+50E EC 10+00S 1+75E EC 10+00S 2+00E EC 10+00S 2+25E	201 202 201 202 201 202 201 202 201 202 201 202	0.005 0.005 0.005 0.005 0.005	0.45 0.35 0.40 0.40 0.50	0.110 0.165 0.140 0.160 0.180	0.045 0.075 0.060 0.075 0.065	0.025 0.045 0.035 0.040 0.040	180 165 100 100 195	0.130 0.215 0.185 0.230 0.225	< 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1	0.015 0.030 0.025 0.030 0.030	0.6 1.1 0.7 0.4 0.5	25 40 35 60 45	0.05 0.05 < 0.05 0.05 0.05	< 0.005 0.005 0.005 0.005 0.005	8 14 18 31 8
BC 10+00S 2+50E BC 10+00S 2+75E EC 10+00S 3+00E BC 10+00S 3+25E BC 10+00S 3+50E	201 202 201 202 201 202 201 202 201 202 201 202	0.005 0.005 0.005 0.015 0.010	0.45 0.75 0.45 0.45 0.45	0.075 0.165 0.140 0.105 0.060	0.035 0.070 0.060 0.050 0.025	0.020 0.045 0.040 0.030 0.015	225 190 95 120 150	0.090 0.220 0.180 0.160 0.075	< 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1	0.010 0.030 0.025 0.020 0.010	0.5 1.2 0.5 0.3 0.4	20 100 15 25 125	< 0.05 0.15 < 0.05 < 0.05 0.10	< 0.005 0.005 0.005 < 0.005 < 0.005	10 22 6 12 45
BC 10+50% 0+00E BC 10+50% 0+25E BC 10+50% 0+25E BC 10+50% 0+75E BC 10+50% 1+00E	201 202 201 202 201 202 201 202 201 202 201 202	0.195 0.015 0.010 0.005 0.010	0.35 0.45 0.40 0.65 0.45	0.130 0.120 0.160 0.065 0.100	0.065 0.060 0.065 0.025 0.045	0.030 0.030 0.040 0.020 0.025	405 355 230 560 220	0.170 0.160 0.205 0.080 0.125	< 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1	0.025 0.025 0.030 0.010 0.020	1.1 0.7 0.8 0.7 0.8	105 110 40 50 85	0.30 0.35 0.15 0.05 0.05	0.005 0.005 < 0.005 < 0.005 < 0.005	9 17 19 26 17
BC 10+50S 1+25E BC 10+50S 1+50E BC 10+50S 1+75E BC 10+50S 2+00E BC 10+50S 2+25E	201 202 201 202 201 202 201 202 201 202 201 202	0.005 0.010 0.010 0.025 0.015	0.45 0.55 0.50 0.50 0.45	0.235 0.155 0.100 0.200 0.110	0.100 0.065 0.045 0.090 0.055	0.060 0.040 0.030 0.050 0.025	190 175 255 130 165	0.355 0.170 0.140 0.260 0.155	< 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1	0.040 0.025 0.020 0.035 0.020	0.2 0.8 0.9 0.6	45 50 40 40 90	< 0.05 < 0.05 0.05 0.05 0.05	0.005 0.005 0.005 0.005 < 0.005	38 17 14 8 17
BC 10+50% 2+50E BC 10+50% 2+75E BC 10+50% 3+00E BC 10+50% 3+25E BC 11+00% 0+00E	201 202 201 202 201 202 201 202 201 202 201 202	0.010 0.005 0.005 0.010 0.025	0.55 0.45 0.40 0.55 0.50	0.095 0.135 0.140 0.075 0.100	0.045 0.060 0.065 0.035 0.045	0.020 0.035 0.045 0.020 0.025	130 120 115 165 320	0.115 0.180 0.200 0.100 0.125	< 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1	0.015 0.025 0.025 0.015 0.020	0.4 0.5 0.6 0.7	65 40 35 25 25	< 0.05 0.05 0.05 0.05 < 0.05	< 0.005 0.005 < 0.005 < 0.005 < 0.005 < 0.005	26 18 11 11 23
BC 11+00S 0+25E BC 11+00S 0+50E BC 11+00S 0+75E BC 11+00S 1+00E BC 11+00S 1+25E	201 202 201 202 201 202 201 202 201 202 201 202	0.020 0.005 0.015 0.005 0.005	0.50 0.35 0.70 0.55 0.40	0.195 0.125 0.140 0.130 0.190	0.090 0.055 0.070 0.055 0.090	0.050 0.035 0.035 0.035 0.040	155 125 280 255 165	0.240 0.170 0.200 0.160 0.255	< 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1	0.030 0.025 0.030 0.025 0.030	0.6 0.6 0.5 1.0 0.7	60 110 45 135 25	< 0.05 0.05 0.05 0.05 0.05 < 0.05	0.005 0.005 0.005 0.005 0.010	15 17 16 16 9
BC 11+00S 1+50E BC 11+00S 1+75E BC 11+00S 2+00E BC 11+00S 2+25E BC 11+00S 2+50E	201 202 201 202 201 202 201 202 201 202 201 202	0.020 0.015 0.020 0.010 0.005	0.50 0.75 0.45 0.50 0.30	0.175 0.195 0.135 0.120 0.155	0.085 0.085 0.060 0.050 0.065	0.050 0.040 0.035 0.030 0.040	210 305 150 190 95	0.265 0.245 0.205 0.155 0.210	<pre>&lt; 0.1 &lt; 0.1</pre>	0.035 0.035 0.025 0.020 0.030	0.8 0.7 0.1 0.6 0.4	25 60 20 15 20	< 0.05 0.10 < 0.05 0.10 0.05	0.010 0.005 0.005 0.005 0.005	6 15 14 8 12

CERTIFICATION

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\* 0.1M NH2OH, HCI IN 0.04M HNO3. 1g/20mi FOR 2 HOURS @ ROOM TEMPERATURE.



Analytical Chemists \* Geochemists \* Registered Assavers

212 Brooksbank Ave., North Vancouver British Columbia, Canada V7J 2C1 PHONE: 604-984-0221 FAX: 604-984-0218

To: BORONOWSKI, ALEX

3741 ST. ANDREWS AVE. VANCOUVER, BC V7N 2A6

Page Number :1-C Total Pages :3 Certificate Date: 28-AUG-2000 Invoice No. :10024480 P.O. Number : CDB Account

Project : BLACKDOME Comments: ATTN: ALEX BORONOWSKI CC: CHRIS SEBERT

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* PLEASE NOTE								CERTI	FICATE	OF AN	ALYSIS	<u> </u>	002448	0	
SAMPLE	PREP CODE	Mn ppm ICP-MS	Mo ppm ICP-MS	Na ppm ICP-MS	Nb ppm ICP-MS	Nd ppm ICP-MS	Ni ppm ICP-MS	P ppm ICP-MS	Pb ppm ICP-MS	Pr ppm ICP-MS	Rb ppm ICP-MS	Sb ppm ICP-MS	Se ppm ICP-MS	Sm ppm ICP-MS	Sn ppm ICP-MS
BC 10+00S 0+00E BC 10+00S 0+25E BC 10+00S 0+50E BC 10+00S 0+75E BC 10+00S 1+00E	201 202 201 202 201 202 201 202 201 202 201 202	89.1 30.8 3.9 8.9 26.9	< 0.01 < 0.01 < 0.01 < 0.01 < 0.01	10 10 10 < 10 10	0.01 0.01 < 0.01 < 0.02 0.01	0.730 0.770 1.235 0.590 0.470	0.25 0.30 0.10 0.60 0.40	70 155 45 210 45	1.8 2.1 0.7 1.0 1.1	0.190 0.205 0.305 0.145 0.115	0.44 0.40 0.33 0.31 0.28	< 0.005 0.005 < 0.005 0.005 0.005	< 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5	0.160 0.175 0.250 0.125 0.095	< 0.05 < 0.05 < 0.05 < 0.05 < 0.05
BC 10+00S 1+25E BC 10+00S 1+50E BC 10+00S 1+50E BC 10+00S 1+75E BC 10+00S 2+00E BC 10+00S 2+25E	201 202 201 202 201 202 201 202 201 202 201 202	1.6 16.7 25.5 9.9 8.5	< 0.01 < 0.01 < 0.01 < 0.01 < 0.01	< 10 < 10 10 10 10	0.01 0.01 < 0.01 < 0.01 < 0.01 0.01	0.560 0.950 0.910 1.100 1.230	0.25 0.25 0.25 0.15 0.20	95 80 60 90 65	1.0 0.7 0.9 0.8 1.5	0.145 0.250 0.230 0.285 0.320	0.33 0.28 0.33 0.43 0.16	< 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005	< 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5	0.125 0.205 0.180 0.215 0.235	< 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05
BC 10+00S 2+50E BC 10+00S 2+75E BC 10+00S 3+00E BC 10+00S 3+25E BC 10+00S 3+50E	201 202 201 202 201 202 201 202 201 202 201 202	1.8 13.5 1.7 2.5 10.9	< 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01	< 10 < 10 10 10 < 10	0.01 0.01 < 0.01 < 0.01 < 0.01 < 0.01	0.365 1.025 0.930 0.740 0.380	0.15 0.35 0.05 < 0.05 0.20	140 65 40 55 60	0.7 0.9 0.6 0.8 0.8	0.090 0.275 0.240 0.195 0.100	0.24 0.45 0.23 0.32 0.37	< 0.005 < 0.005 < 0.005 < 0.005 < 0.005	< 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5	0.080 0.210 0.195 0.165 0.080	< 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05
BC 10+50S 0+00E BC 10+50S 0+25E BC 10+50S 0+25E BC 10+50S 0+50E BC 10+50S 0+75E BC 10+50S 1+00E	201 202 201 202 201 202 201 202 201 202 201 202	2.6 25.0 19.5 12.4 24.4	0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01	10 10 < 10 10 < 10	0.01 0.01 0.01 0.03 0.01	0.730 0.770 0.935 0.415 0.575	0.25 0.20 0.45 0.35 0.30	100 70 290 160 150	0.6 0.9 0.7 0.7 0.9	0.185 0.195 0.235 0.105 0.155	0.32 0.41 0.29 0.28 0.36	< 0.005 < 0.005 0.005 < 0.005 0.005	< 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5	0.165 0.150 0.200 0.085 0.120	< 0.05 < 0.05 < 0.05 < 0.05 < 0.05
BC 10+508 1+25E BC 10+508 1+50E BC 10+508 1+50E BC 10+508 1+75E BC 10+508 2+00E BC 10+508 2+25E	201 202 201 202 201 202 201 202 201 202 201 202	13.7 27.0 1.6 3.4 7.2	< 0.01 < 0.01 < 0.01 < 0.01 < 0.01	- 10 < 10 10 < 10 < 10 < 10	< 0.01 0.01 0.01 0.01 < 0.01	1.715 0.885 0.665 1.230 0.665	0.15 0.35 0.25 0.20 0.25	45 65 90 115 115	0.7 1.4 1.1 0.7 0.7	C.450 0.230 0.175 0.315 0.165	0.35 0.40 0.29 0.31 0.47	< 0.005 < 0.005 < 0.005 < 0.005 < 0.005	< 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5	0.320 0.185 0.130 0.255 0.140	< 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05
BC 10+508 2+50E BC 10+508 2+75E BC 10+508 3+00E BC 10+508 3+25E BC 10+508 0+00E	201 202 201 202 201 202 201 202 201 202 201 202	3.4 12.3 1.0 40.9 6.3	< 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01	< 10 10 10 10 10	< 0.01 < 0.01 < 0.01 < 0.01 < 0.01 0.01	0.515 0.940 1.005 0.480 0.590	0.15 0.15 0.15 0.25 0.30	35 95 80 65 70	1.1 0.7 0.6 0.9 1.0	0.130 0.245 0.260 0.130 0.145	0.42 0.35 0.31 0.27 0.31	< 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005	< 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5	0.105 0.185 0.205 0.100 0.125	< 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05
BC 11+00S 0+25E BC 11+00S 0+50E BC 11+00S 0+75E BC 11+00S 1+00E BC 11+00S 1+25E	201 202 201 202 201 202 201 202 201 202 201 202	11.0 6.0 21.7 62.4 6.2	< 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01	< 10 < 10 10 < 10 < 10 < 10	< 0.01 < 0.01 < 0.01 < 0.01 < 0.01	1.145 0.820 0.930 0.735 1.045	0.05 0.15 0.20 0.25 0.05	115 85 40 100 145	1.0 0.7 1.2 1.4 1.2	0.280 0.220 0.235 0.185 0.265	0.28 0.28 0.37 0.41 0.28	< 0.005 < 0.005 < 0.005 0.005 < 0.005	< 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5	0.245 0.175 0.190 0.150 0.240	< 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05
BC 11+00% 1+50B BC 11+00% 1+75E BC 11+00% 2+00E BC 11+00% 2+25E BC 11+00% 2+50E	201 202 201 202 201 202 201 202 201 202 201 202	5.5 22.4 6.6 1.1 20.1	< 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01	10 10 < 10 < 10 10	0.01 0.01 < 0.01 < 0.01 < 0.01 < 0.01	1.300 1.140 0.950 0.735 1.040	0.05 0.40 0.05 0.15 0.20	140 135 95 95 90	0.8 0.7 0.8 0.7 0.8	0.325 0.315 0.235 0.190 0.240	0.27 0.27 0.31 0.23 0.31	< 0.005 < 0.005 < 0.005 < 0.005 < 0.005	< 0.5 < 0.5 < 0.5 < 0.5 < 0.5	0.260 0.220 0.195 0.150 0.215	< 0.05 < 0.05 < 0.05 < 0.05 < 0.05
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\* 0.1M NH2OH.HCI IN 0.04M HNO3. 1g/20ml FOR 2 HOURS @ ROOM TEMPERATURE.

CERTIFICATION:

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Analytical Chemists \* Geochemists \* Registered Assayers

212 Brooksbank Ave., North Vancouver British Columbia, Canada V7J 2C1 PHONE: 604-984-0221 FAX: 604-984-0218 10: BOBONOWSKI, ALEX

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3741 ST. ANDREWS AVE. VANCOUVER, BC V7N 2A6 Page Number :1-D Total Pages :3 Certificate Date: 28-AUG-2000 Invoice No. : 10024480 P.O. Number : Account :CDB

Project : BLACKDOME Comments: ATTN: ALEX BORONOWSK! CC: CHRIS SEBERT

CERTIFICATE OF ANALYSIS A0024480 \* PLEASE NOTE Yb ppm Zn ppm B ppm PREP Te ppm Th ppm Ti ppm T1 ppm In Dom ngg U V ppm M DDM Zr ppm Th ppm Sr ppm ICP-MS ICP-MS ICP-MS ICP-MS ICP-MS ICP-MS ICP-MS ICP-MS CODE ICP-MS ICP-MS ICP-MS ICP-MS ICP-MS ICP-MS SAMPLE 0.85 < 2 0.04 0.040 3.0 0.025 0.005 0.005 0.055 1.10 201 202 < 0.05 0.10 5 BC 10+005 0+00E 3.00 < 2 0.045 9.2 1.20 0.005 0.040 1.05 < 0.01 0.13 < 0.005 BC 10+005 0+25E 201 202 2.75 0.025 < 0.05 5 0.50 < 2 < 0.01 0.060 2.2 0.010 0.035 0.95 BC 10+005 0+50E 201 202 4.60 0.035 < 0.05 0.04 0.005 4 1.90 < 2 1.10 < 0.01 0.035 6.4 BC 10+005 0+75E < 0.05 0.15 < 0.005 0.005 0.045 201 202 3.85 0.020 6 0.80 < 2 < 0.005 0.005 0.045 1.20 < 0.01 0.025 4.4 BC 10+005 1+00E 201 202 6.55 0.015 < 0.05 0.07 5 < 2 0.005 0.030 0.60 < 0.01 0.040 3.2 0.65 < 0.005 201 202 1.70 0.020 < 0.05 0.09 BC 10+00S 1+25E 4 1.50 < 2 < 0.005 0.005 0.025 0.90 < 0.01 0.060 2.4 201 202 1.90 0.035 < 0.05 0.15 BC 10+00S 1+50E < 2 < 0.005 0.85 0.005 0.035 0.75 < 0.01 0.045 2.8 BC 10+00S 1+75E 201 202 3.20 0.025 < 0.05 0.08 < 2 0.45 0.55 < 0.01 0.055 2.8 < 0.005 0.005 0.030 BC 10+005 2+00E 201 202 3.90 0.035 < 0.05 0.05 0.055 < 2 1.10 0.005 0.050 1.00 < 0.01 1.0 201 202 0.030 < 0.05 0.08 8 < 0.005 BC 10+00S 2+25E 1.20 < 2 0.60 < 0.005 0.005 0.035 1.00 < 0.01 0.030 2.6 201 202 2.20 0.015 < 0.05 0.05 5 BC 10+008 2+50E 0.050 < 2 0.035 < 0.01 2.8 1.50 < 0.05 < 0.005 0.005 1.00 BC 10+005 2+75E 201 202 2.55 0.035 0.11 5 0.050 1.2 0.50 < 2 < 0.005 < 0.01 201 202 0.025 < 0.05 0.04 4 0.005 0.040 0.80 1.15 BC 10+005 3+00E < 2 0.040 2.0 0.35 0.65 < 0.01 201 202 0.020 < 0.05 0.03 3 < 0.005 0.005 0.030 BC 10+008 3+25E 1.70 0.30 < 2 < 0.01 0.020 3.2 0.025 0.55 BC 10+005 3+50E 201 202 3.00 0.010 < 0.05 0.03 2 < 0.005 < 0.005 < 2 0.005 0.045 1.75 < 0.01 0.045 4.8 1.25 BC 10+505 0+00E 201 202 2.15 0.025 < 0.05 0.14 5 < 0.005 < 2 < 0.01 0.040 7.2 1.25 0.005 0.005 0.035 0.85 201 202 2.85 0.025 < 0.05 0.12 6 BC 10+50S 0+25E < 2 0.005 0.025 0.80 < 0.01 0.055 3.0 1.25 6 < 0.005 201 202 2.95 0.030 < 0.05 0.15 BC 10+505 0+50E < 2 0.040 < 0.01 0.025 4.2 1.30 < 0.005 < 0.005 1.20 < 0.05 0.10 8 BC 10+50S 0+75E 201 202 4.20 0.015 0.035 4.8 0.90 < 2 0.005 0.025 1.00 < 0.01 < 0.05 0.09 4 0.005 0.020 BC 10+50S 1+00B 201 202 1.80 < 2 0.070 2.0 0.35 0.80 < 0.01 0.03 3 < 0.005 0.015 0.050 BC 10+50S 1+25E 201 202 6.00 0.050 < 0.05 0.75 < 2 0.030 0.60 < 0.01 0.040 5.4 0.005 BC 10+50S 1+50E 201 202 1.65 0.025 < 0.05 0.11 3 < 0.005 0.95 < 2 0.005 0.030 1.15 < 0.01 0.025 0.6 BC 10+50S 1+75E 201 202 2.55 0.020 < 0.05 0.07 5 < 0.005 0.010 0.040 1.00 < 0.01 0.065 0.2 1.00 < 2 < 0.005 BC 10+505 2+00B 201 202 1.70 0.035 < 0.05 0.08 4 0.55 < 2 0.07 < 0.005 0.005 0.025 0.80 < 0.01 0.035 0.6 BC 10+508 2+25E 201 202 2.05 0.025 < 0.05 4 < 2 0.03 < 0.005 0.030 0.90 < 0.01 0.030 4.0 0.40 < 0.05 3 < 0.005 201 202 3.15 0.015 BC 10+508 2+50E 0.040 0.35 < 2 < 0.005 0.005 0.030 0.60 0.03 3.8 201 202 0.025 < 0.05 0.03 4 BC 10+505 2+75E 2.05 0.50 < 2 0.035 4.0 1.65 < 0.005 0.005 0.030 0.85 < 0.01 BC 10+508 3+00E 201 202 0.030 < 0.05 0.04 4 < 2 0.020 0.50 < 0.005 0.025 0.85 < 0.01 2.6 0.03 < 0.005 BC 10+505 3+25E 201 202 1.70 0.015 < 0.05 4 0.90 < 2 < 0.01 0.035 7.2 0.005 0.035 0.80 BC 11+005 0+00E 201 202 3.20 0.020 < 0.05 0.11 4 < 0.005 < 2 0.065 2.0 0.75 0.10 5 < 0.005 0.005 0.040 0.70 < 0.01 BC 11+00S 0+25E 201 202 2.30 0.035 < 0.05 < 2 < 0.005 0.005 0.035 0.60 < 0.01 0.040 4.2 0.55 201 202 0.025 < 0.05 0.06 6 BC 11+005 0+50E 2.25 < 0.005 0.005 0.065 0.90 < 0.01 0.055 3.6 1.05 < 2 0.09 BC 11+005 0+75E 201 202 2.30 0.030 < 0.05 4 1.20 < 2 0.005 0.005 0.045 0.85 < 0.01 0.040 5.6 < 0.05 0.12 BC 11+00S 1+00E 201 202 1.75 0.025 4 0.070 0.65 < 2 3.0 < 0.05 0.08 < 0.005 0.010 0.040 1.00 < 0.01 201 202 0.035 BC 11+00S 1+25E 1.50 4 0.065 1.25 < 2 4.0 0.005 0.010 0.045 0.95 < 0.01 BC 11+005 1+50B 201 202 1.15 0.035 < 0.05 0.14 6 < 2 < 0.01 0.055 8.2 1.25 201 202 2.90 0.035 < 0.05 0.10 7 < 0.005 0.010 0.035 1.30 BC 11+00S 1+75E 0.045 1.0 0.20 < 2 < 0.005 0.005 0.035 0.60 < 0.01 201 202 2.30 0.025 < 0.05 0.01 4 BC 11+00S 2+00E 0.90 < 0.01 0.045 3.8 0.80 < 2 < 0.005 0.005 0.045 BC 11+005 2+25E 201 202 1.40 0.025 < 0.05 0.06 4 < 0.01 0.055 2.8 0.30 < 2 0.005 0.035 0.55 201 202 1.65 0.030 < 0.05 0.02 4 < 0.005 BC 11+00S 2+50E

CERTIFICATION:

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Analytical Chemists \* Geochemists \* Registered Assayers

212 Brooksbank Ave., North Vancouver British Columbia, Canada V7J 2C1 PHONE: 604-984-0221 FAX: 604-984-0218

### (o: BORONOWSKI, ALEX

3741 ST. ANDREWS AVE. VANCOUVER, BC V7N 2A6

Page Number : 1-E Total Pages :3 Certificate Date: 28-AUG-2000 Invoice No. :10024480 P.O. Number : Account :CDB

Project : BLACKDOME Comments: ATTN: ALEX BORONOWSKI CC: CHRIS SEBERT

* PLEASE NOTE								CERTI	FICATE	OF AN	ALYSIS	A00244	80	
SAMPLE	PREP CODE	Ga ppm ICP-MS	Ge ppm ICP-MS	Hf ppm ICP-MS	In ppm ICP-MS	La ppm ICP-MS	Re ppm ICP-MS	Ta ppm ICP-MS	Y ppm ICP-MS	Leach pH				
BC 10+00S 0+00E BC 10+00S 0+25E BC 10+00S 0+50E BC 10+00S 0+75E BC 10+00S 1+00E	201 202 201 202 201 202 201 202 201 202 201 202	0.30 0.25 0.30 0.30 0.40	< 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1	0.03 0.05 0.02 0.07 0.03	< 0.005 < 0.005 < 0.005 < 0.005 < 0.005	0.750 0.885 1.075 0.610 0.460	< 0.001 < 0.001 < 0.001 < 0.001 < 0.001	< 0.01 < 0.01 < 0.01 < 0.01 < 0.01	0.535 0.590 0.785 0.410 0.355	1.4 1.4 1.4 1.4 1.4				
BC 10+00S 1+25E BC 10+00S 1+50E BC 10+00S 1+50E BC 10+00S 1+75E BC 10+00S 2+00E BC 10+00S 2+25E	201 202 201 202 201 202 201 202 201 202 201 202	0.20 0.15 0.20 0.25 0.25	< 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1	0.03 0.07 0.04 0.02 0.05	< 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005	0.620 1.060 0.950 1.390 1.250	< 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001	< 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01	0.405 0.650 0.575 0.695 0.645	1.3 1.5 1.4 1.3 1.3				
BC 10+00S 2+50E BC 10+00S 2+75E BC 10+00S 3+00E BC 10+00S 3+25E BC 10+00S 3+50E	201 202 201 202 201 202 201 202 201 202 201 202	0.30 0.25 0.30 0.30 0.25	< 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1	0.02 0.06 0.01 0.01 0.01	< 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005	0.360 1.185 0.845 0.675 0.445	< 0.001 < 0.001 < 0.001 < 0.001 < 0.001	< 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01	0.275 0.670 0.515 0.450 0.230	1.3 1.4 1.3 1.2 1.2				
BC 10+50S 0+00E BC 10+50S 0+25E BC 10+50S 0+50E BC 10+50S 0+75E BC 10+50S 1+00E	201 202 201 202 201 202 201 202 201 202 201 202	0.30 0.30 0.20 0.35 0.30	< 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1	0.04 0.05 0.05 0.06 0.04	< 0.005 < 0.005 < 0.005 < 0.005 < 0.005	0.730 0.830 0.975 0.500 0.690	< 0.001 < 0.001 < 0.001 < 0.001 < 0.001	< 0.01 < 0.01 < 0.01 < 0.01 < 0.01	0.545 0.525 0.630 0.275 0.410	1.5 1.4 1.4 1.3 1.3				
BC 10+50S 1+25E BC 10+50S 1+50E BC 10+50S 1+75E BC 10+50S 2+00E BC 10+50S 2+25E	201 202 201 202 201 202 201 202 201 202 201 202	0.25 0.20 0.35 0.25 0.20	< 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1	0.01 0.03 0.03 0.04 0.02	< 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005	1.720 1.015 0.860 1.290 0.685	< 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001	< 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01	0.955 0.615 0.415 0.795 0.490	1.5 1.5 1.5 1.5 1.5				
BC 10+50S 2+50E BC 10+50S 2+75E BC 10+50S 3+00E BC 10+50S 3+25E BC 11+00S 0+00E	201 202 201 202 201 202 201 202 201 202 201 202	0.35 0.25 0.35 0.30 0.25	< 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1	0.01 0.01 0.02 0.01 0.04	< 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005	0.495 0.905 1.060 0.545 0.625	< 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001	< 0.01 < 0.01 < 0.01 < 0.01 < 0.01	0.350 0.565 0.550 0.300 0.425	1.5 1.5 1.5 1.5 1.5				
BC 11+00S 0+25E BC 11+00S 0+50E BC 11+00S 0+75E BC 11+00S 1+00E BC 11+00S 1+25E	201 202 201 202 201 202 201 202 201 202 201 202	0.25 0.25 0.35 0.25 0.25	< 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1	0.03 0.03 0.04 0.05 0.03	< 0.005 < 0.005 < 0.005 < 0.005 < 0.005	1.140 0.795 0.880 0.780 0.950	< 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001	< 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01	0.730 0.490 0.565 0.480 0.765	1.5 1.5 1.5 1.5 1.5				
BC 11+00S 1+50E BC 11+00S 1+75E BC 11+00S 2+00E BC 11+00S 2+25E BC 11+00S 2+50E	201 202 201 202 201 202 201 202 201 202 201 202	0.25 0.35 0.15 0.25 0.20	< 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1	0.05 0.05 < 0.01 0.03 0.01	< 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005	1.120 1.370 0.985 0.790 0.830	< 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001	< 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01	0.785 0.740 0.590 0.450 0.575	1.5 1.5 1.5 1.5 1.5 1.5		$\bigcap$	1	
				· · ·					·	CFR	TIFICATION:	· Nau	el leb	ייייייייייייייייייייייייייייייייייייי

\* 0.1M NH2OH, HCI IN 0.04M HNO3, 1g/20ml FOR 2 HOURS @ ROOM TEMPERATURE,



Analytical Chemists \* Geochemists \* Registered Assayers

212 Brooksbank Ave., North Vancouver British Columbia, Canada V7J 2C1 PHONE: 604-984-0221 FAX: 604-984-0218 o: BORONOWSKI, ALEX

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3741 ST. ANDREWS AVE. VANCOUVER, BC V7N 2A6 Page No. Jer :2-A Total Pages :3 Certificate Date: 28-AUG-2000 Invoice No. : 10024480 P.O. Number : Account : CDB

Project : BLACKDOME Comments: ATTN: ALEX BORONOWSKI CC: CHRIS SEBERT

* PLEASE NOTE								CERTI	FICATE	OF AN	ALYSIS	<u> </u>	002448	30	
SAMPLE	PREP CODE	ац ррб Гатаа	Ag ppm ICP-MS	Al ppm ICP-MS	As ppm ICP-MS	Au ppm ICP-MS	Ba ppm ICP-MS	Be ppm ICP-MS	Bi ppm ICP-MS	Br ppm ICP-MS	Ca ppm ICP-MS	Cđ ppm ICP-MS	Ce ppm ICP-MS	Co ppm ICP-MS	Cr ppm ICP-MS
BC 11+00% 2+75E BC 11+00% 3+00E PM 00+00N 0+50E PM 00+00N 1+00E PM 02+50N 0+50E	201 202 201 202 201 202 201 202 201 202 201 202		0.014 0.028 <del>0.002</del> <del>0.016</del> <del>0.002</del>	2600 3050 616 604 520	0.4 0.1 < 0.1 < 0.1 < 0.1	< 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05	31.8 21.3 <del>45.4</del> 32.7 27.4	0.15 0.05 < 0.05 0.05 < 0.05 < 0.05	< 0.005 < 0.005 < 0.005 < 0.005 < 0.005	< 2 < 2 < 2 < 2 < 2 < 2 < 2	70 130 950 900 580	< 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01	1.810 1.845 0.940 0.875 0.395	0.10 0.35 0.35 1.00 0.25	0.30 0.55 0.45 0.40 0.20
PM         03+00N         0+50E           PM         03+50N         0+50E           PM         04+00N         0+50E           PM         04+50N         0+50E           PM         00+00         0+00	201 202 201 202 201 202 201 202 201 202 201 202	* * * * *	0.002 0.010 0.002 0.002 0.002	468 656 556 751 716	< 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1	< 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05	27.6 40:2 54.3 39.6 51.2	< 0.05 0.05 < 0.05 0.05 0.05	< 0.005 < 0.005 < 0.005 < 0.005 < 0.005	< 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	560 830 990 810 890	< 0.01 < 0.01 0.01 < 0.01 < 0.01	0.450 1.950 1.130 0.795 1.290	0.35 1.35 0.60 0.20 1.15	0.25 0.30 0.30 0.40 0.35
PM 00+00N 0+50W PM 00+00N 1+00W PM 00+50N 0+50W PM 00+50N 1+00W PM 00+50N 1+50W	201 202 201 202 201 202 201 202 201 202 201 202	5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5	0-016 0.006 < 0.002 -0.010 -0.016	1075 582 780 637 998	< 0.1 < 0.1 < 0.1 < 0.1 < 0.1	< 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05	<del>39.7</del> 25.5 <del>68.8</del> -29.7 36.0	0.05 0.05 0.05 0.05 0.05	< 0.005 < 0.005 < 0.005 < 0.005 < 0.005	< 2 < 2 < 2 < 2 < 2 < 2 < 2	1010 1030 710 1030 1150	0.01 < 0.01 < 0.01 < 0.01 < 0.01	1.020 0.760 1.485 2.54 1.190	0.45 0.60 0.50 1.40 0.45	0.70 0.50 0.50 0.70 0.75
PM 01+50 0+00W PM 01+50 0+50W PM 01+50 1+00W PM 01+50 1+50W PM 01+00 0+50W	201 202 201 202 201 202 201 202 201 202 201 202	***	0.004 < 0.002 0.002 0.014 <-0.002	926 663 541 1440 620	< 0.1 < 0.1 < 0.1 0.1 < 0.1	< 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05	37:1 40:9 67:1 98:1 21:8	0.05 0.05 0.05 0.05 0.05	< 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005	< 2 < 2 < 2 < 2 < 2 < 2 < 2 < 2 < 2	1510 630 590 1210 610	0.01 < 0.01 < 0.01 < 0.01 < 0.01	0.955 0.985 1.390 3.49 0.830	1.45 0.50 0.25 0.25 0.30	0.70 0.35 0.45 1.10 0.40
PM 01+00N 1+00W PM 01+00N 1+50W PM 02+00N 0+00W PM 02+00N 0+50W PM 02+00N 1+00W	201 202 201 202 201 202 201 202 201 202 201 202	****	0.008 0.005 0.004 0.004 0.004	1160 789 782 1260 1140	< 0.1 < 0.1 < 0.1 < 0.1 < 0.1	< 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05	83.6 40.7 41.7 62.8 89.7	0.15 0.05 0.05 0.05 0.05	< 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005	< 2 < 2 < 2 < 2 < 2 < 2 < 2 < 2 < 2	2740 1290 780 920 1040	0.02 0.01 0.01 0.01 0.01	3.18 1.800 0.995 1.150 2.24	3.05 0.60 0.35 0.55 0.25	0.30 0.75 0.35 0.50 0.55
PM 02+00N 1+50W PM 02+50N 0+00W PM 02+50N 0+50W PM 02+50N 1+00W PM 02+50N 1+50W	201 202 201 202 201 202 201 202 201 202 201 202	****	0.024 < 0.002 0.004 0.010 0.006	1930 448 1475 2290 2060	< 0.1 < 0.1 < 0.1 < 0.1 < 0.1	< 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05	52.3 32.6 52.4 84.0 91.7	0.10 < 0.05 0.05 0.05 0.05	< 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005	< 2 < 2 < 2 < 2 < 2 < 2 < 2 < 2	1370 690 720 670 980	0.02 < 0.01 < 0.01 < 0.01 < 0.01 0.01	4.20 1.025 1.320 2.20 1.905	1.95 0.75 0.20 0.25 0.40	0.85 0.25 0.60 0.75 0.85
PM 03+00N 0+00W PM 03+00N 0+50W PM 03+00N 1+00W PM 03+00N 1+50W PM 03+50N 0+00W	201 202 201 202 201 202 201 202 201 202 201 202	* <del>5</del> 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5	0.008- 0.006 0.002 0.002 0.002	465 2510 1120 878 1090	< 0.1 < 0.1 < 0.1 < 0.1 < 0.1	< 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05	18.45 44.8 84.9 44.6 65.0	0.60 0.05 0.10 0.05 < 0.05	< 0.005 < 0.005 < 0.005 < 0.005 < 0.005	< 2 < 2 < 2 < 2 < 2 < 2 < 2 < 2 < 2	910 470 990 610 900	0.01 0.01 < 0.01 < 0.01 < 0.01 0.01	2.27 1.110 3.14 0.815 1.000	0.80 0.25 0.30 0.15 0.30	0.35 0.90 0.95 0.35 0.75
PM 03+50N 0+50W PM 03+50N 1+00W PM 03+50N 1+50W PM 04+00N 0+00W PM 04+00N 0+50W	201 202 201 202 201 202 201 202 201 202 201 202	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	0.006 0.002 0.002 0.006 0.006	1705 914 843 1200 1735	< 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1	< 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05	93.3 69.7 41.4 74.9 80.3	0.05 0.05 0.05 0.05 0.05	< 0.005 < 0.005 < 0.005 < 0.005 < 0.005	< 2 < 2 < 2 < 2 < 2 < 2 < 2 < 2 < 2 < 2	640 530 1110 730 820	< 0.01 < 0.01 0.01 < 0.01 0.01	1.300 0.800 0.795 1.405 1.440	0.25 0.10 0.75 0.60 0.90	0.90 0.55 0.25 0.60 1.00
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\* 0.1M NH2OH.HCI IN 0.04M HNO3. 1g/20ml FOR 2 HOURS @ ROOM TEMPERATURE.

CERTIFICATION:

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\* PLEASE NOTE

## ALS Chemex

Analytical Chemists \* Geochemists \* Registered Assayers

212 Brooksbank Ave., North Vancouver British Columbia, Canada V7J 2C1 PHONE: 604-984-0221 FAX: 604-984-0218 To: BORONOWSKI, ALEX

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3741 ST. ANDREWS AVE. VANCOUVER, BC V7N 2A6 Page Number :2-B Total Pages :3 Certificate Date: 28-AUG-2000 Invoice No. :10024480 P.O. Number : Account :CDB

Project : BLACKDOME Comments: ATTN: ALEX BORONOWSKI CC: CHRIS SEBERT

### CERTIFICATE OF ANALYSIS A0024480

CERTIFICATION:

SAMPLE	PREP CODE	Cs ppm ICP-MS	Cu ppm ICP-MS	Dy ppm ICP-MS	Er ppm ICP-MS	Eu ppm ICP-MS	Fe ppm ICP-MS	Gđ ppm ICP-MS	Hg ppm ICP-MS	Ho ppm ICP-MS	I ppm ICP-MS	K ppm ICP-MS	Li ppm ICP-MS	Lu ppm ICP-MS	Mg ppm ICP-MS
BC 11+005 2+752 BC 11+005 3+002 PM 00+00N 0+502 PM 00+00N 1+002 PM 02+50N 0+502	201 202 201 202 201 202 201 202 201 202 201 202	0.015 0.015 < 0.005 < 0.005 < 0.005	0.40 0.55 0.30 0.30 0.20	0.120 0.130 0.070 0.075 0.020	0.060 0.055 0.035 0.035 0.035	0.035 0.040 0.015 0.015 < 0.005	50 130 325 385 250	0.205 0.180 0.095 0.115 0.025	< 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1	0.020 0.025 0.015 0.015 < 0.005	0.3 0.4 < 0.1 < 0.1 < 0.1	25 50 105 55 180	< 0.05 0.05 0.05 < 0.05 < 0.05	0.005 0.005 < 0.005 0.005 < 0.005	7 18 267 240 125
PM         03+00N         0+50E           PM         03+50N         0+50E           PM         04+00N         0+50E           PM         04+50N         0+50E           PM         04+50N         0+50E           PM         04+00N         0+50E	201 202 201 202 201 202 201 202 201 202 201 202	< 0.005 < 0.005 < 0.005 < 0.005 < 0.005	0.20 0.50 0.40 0.25 0.25	0.035 0.115 0.060 0.065 0.085	0.015 0.050 0.030 0.030 0.035	< 0.005 0.025 0.020 0.015 0.020	240 280 250 290 320	0.040 0.140 0.080 0.080 0.100	< 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1	0.005 0.020 0.015 0.010 0.015	< 0.1 0.1 < 0.1 < 0.1 < 0.1 < 0.1	110 85 85 110 130	< 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05	< 0.005 0.005 < 0.005 < 0.005 < 0.005 < 0.005	177 128 144 180 174
PM 00+00N 0+50W PM 00+00N 1+00W PM 00+50N 0+50W	201 202 201 202 201 202	< 0.005 < 0.005 < 0.005	0.35 0.30 0.40	0.085 0.065 0.110	0.040 0.030 0.045	0.020 0.015 0.025	660 380 330	0.105 0.085 0.135	< 0.1 < 0.1 < 0.1	0.015 0.010 0.020	< 0.1 < 0.1 0.1	140 130 105	< 0.05 0.05 < 0.05	< 0.005 < 0.005 0.005	228 211 186
PM 00+50N 1+00W PM 00+50N 1+50W	201 202 201 202	< 0.005	0.40	0.165 0.080	0.070 0.035	0.040	490 590	0.200	< 0.1 < 0.1	0.025	< 0.1 < 0.1	125 135	0.10	0.005 < 0.005	316 204
PM 01+50 0+00W PM 01+50 0+50W PM 01+50 1+00W PM 01+50 1+50W PM 01+00 0+50W	201 202 201 202 201 202 201 202 201 202 201 202	< 0.005 < 0.005 < 0.005 0.005 < 0.005	0.25 0.25 0.20 0.50 0.25	0.055 0.055 0.075 0.190 0.065	0.025 0.035 0.040 0.090 0.035	0.010 0.015 0.020 0.055 0.015	465 255 285 700 300	0.060 0.075 0.105 0.275 0.080	< 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1	0.005 0.010 0.015 0.040 0.015	< 0.1 < 0.1 < 0.1 0.2 < 0.1	160 100 40 160 75	< 0.05 < 0.05 < 0.05 0.05 < 0.05 < 0.05	< 0.005 < 0.005 < 0.005 0.010 < 0.005	311 158 182 175 170
PM 01+00N 1+00W PM 01+00N 1+50W PM 02+00N 0+00W PM 02+00N 0+50W PM 02+00N 1+00W	201 202 201 202 201 202 201 202 201 202 201 202 201 202	< 0.005 0.005 < 0.005 0.005 0.005	0.60 0.55 0.35 0.35 0.35	0.275 0.110 0.060 0.075 0.120	0.130 0.050 0.030 0.035 0.065	0.065 0.025 0.010 0.015 0.035	320 505 360 440 440	0.325 0.145 0.070 0.090 0.170	< 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1	0.050 0.020 0.010 0.015 0.025	< 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1	210 90 140 95 125	0.30 < 0.05 < 0.05 < 0.05 < 0.05 0.10	0.015 < 0.005 < 0.005 < 0.005 < 0.005 0.005	564 286 156 140 152
PM 02+00N 1+50W PM 02+50N 0+00W PM 02+50N 0+50W PM 02+50N 1+00W PM 02+50N 1+50W	201 202 201 202 201 202 201 202 201 202 201 202	0.005 < 0.005 < 0.005 0.005 0.005	0.55 0.20 0.30 0.45 0.45	0.225 0.055 0.095 0.150 0.120	0.100 0.020 0.045 0.080 0.060	0.065 0.010 0.025 0.035 0.030	805 230 335 405 670	0.290 0.065 0.115 0.175 0.140	< 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1	0.040 0.010 0.020 0.025 0.025	0.1 < 0.1 < 0.1 < 0.1 0.2 0.1	150 95 110 95 130	0.05 < 0.05 < 0.05 < 0.05 < 0.05 0.15	0.010 < 0.005 < 0.005 0.005 0.005	196 154 171 118 182
PM 03+00N 0+00W PM 03+00N 0+50W PM 03+00N 1+00W PM 03+00N 1+50W PM 03+50N 0+00W	201 202 201 202 201 202 201 202 201 202 201 202	< 0.005 < 0.005 0.005 < 0.005 < 0.005	0.35 0.40 0.50 0.25 0.35	0.215 0.110 0.150 0.055 0.090	0.130 0.055 0.070 0.025 0.035	0.025 0.020 0.040 0.010 0.020	285 460 645 265 515	0.220 0.105 0.215 0.070 0.100	< 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1	0.045 0.020 0.030 0.005 0.015	< 0.1 0.1 0.1 < 0.1 0.1	80 235 95 55 185	0.20 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05	0.020 0.005 0.005 < 0.005 < 0.005 < 0.005	202 122 227 146 152
PM 03+50N 0+50W PM 03+50N 1+00W PM 03+50N 1+50W PM 04+00N 0+00W PM 04+00N 0+50W	201 202 201 202 201 202 201 202 201 202 201 202	< 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005	0.40 0.25 0.30 0.40 0.50	0.125 0.065 0.050 0.105 0.100	0.055 0.040 0.025 0.055 0.050	0.025 0.015 0.010 0.020 0.025	495 370 250 390 625	0.140 0.075 0.060 0.140 0.135	< 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1	0.025 0.010 0.005 0.020 0.020	0.1 0.1 < 0.1 0.1 0.1 0.3	110 55 90 250 235	< 0.05 < 0.05 0.15 < 0.05 < 0.05	0.005 < 0.005 < 0.005 0.005 0.005	123 126 281 124 110

\* 0.1M NH2OH.HCI IN 0.04M HNO3. 1g/20ml FOR 2 HOURS @ ROOM TEMPERATURE.

· 2 Jamel John



Analytical Chemists \* Geochemists \* Registered Assayers

212 Brooksbank Ave., North Vancouver British Columbia, Canada V7J 2C1 PHONE: 604-984-0221 FAX: 604-984-0218 To: BORONOWSKI, ALEX

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3741 ST. ANDREWS AVE. VANCOUVER, BC V7N 2A6 Page Number :2-C Totai Pages :3 Certificate Date: 28-AUG-2000 Invoice No. :10024480 P.O. Number : Account :CDB

Project : BLACKDOME Comments: ATTN: ALEX BORONOWSKI CC: CHRIS SEBERT

* PLEASE NOTE			CERTI	FICATE	OF AN	ALYSIS	<u> </u>	002448	80						
SAMPLE	PREP CODE	Mn ppm ICP-MS	Mo ppm ICP-MS	Na ppm ICP-MS	Nb ppm ICP-MS	Nđ ppm ICP-MS	Ni ppm ICP-MS	P ppm ICP-MS	Pb ppm ICP-MS	Pr ppm ICP-MS	Rb ppm ICP-MS	Sb ppm ICP-MS	Se ppm ICP-MS	Sm ppm ICP-MS	Sn ppm ICP-MS
BC 11+005 2+75E BC 11+005 3+00E PM 00+00N 0+50E PM 00+00N 1+00E PM 02+50N 0+50E	201 202 201 202 201 202 201 202 201 202 201 202	2.7 25.5 8.3 35.8 9.6	< 0.01 < 0.01 < 0.01 < 0.01 < 0.01	< 10 10 10 10 10	< 0.01 < 0.01 < 0.01 < 0.01 < 0.01	0.875 0.920 0.380 0.400 0.110	< 0.05 0.05 0.15 0.25 0.10	70 70 90 115 45	0.5 0.8 0.2 0.8 0.3	0.220 0.240 0.095 0.090 0.030	0.32 0.42 0.16 0.21 0.16	< 0.005 < 0.005 < 0.005 < 0.005 < 0.005	< 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5	0.185 0.190 0.110 0.100 0.025	< 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05
PM 03+00N 0+50E PM 03+50N 0+50E PM 04+00N 0+50E PM 04+50N 0+50E PM 00+00 0+00	201 202 201 202 201 202 201 202 201 202 201 202	7.3 125.0 13.6 6.7 39.7	< 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01	10 10 10 10 10	< 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01	0.170 0.680 0.380 0.365 0.460	0.10 0.10 0.20 0.05 0.05	30 20 15 30 20	0.4 0.7 0.3 0.8 0.3	0.040 0.175 0.100 0.085 0.115	0.11 0.17 0.12 0.22 0.20	< 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005	< 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5	0.045 0.150 0.090 0.090 0.105	< 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05
PM 00+00N 0+50W PM 00+00N 1+00W PM 00+50N 0+50W PM 00+50N 1+00W PM 00+50N 1+50W	201 202 201 202 201 202 201 202 201 202 201 202	23.1 15.4 14.1 39.6 18.3	< 0.01 < 0.01 < 0.01 < 0.01 < 0.01	< 10 10 10 10 10	0.01 < 0.01 < 0.01 < 0.01 < 0.01	0.420 0.320 0.600 0.845 0.410	0.20 0.20 0.15 0.50 0.15	120 60 60 40 195	0.5 0.3 0.1 0.5 0.3	0.110 0.080 0.165 0.230 0.105	0.27 0.22 0.28 0.22 0.40	< 0.005 < 0.005 < 0.005 < 0.005 < 0.005	< 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5	0.105 0.075 0.140 0.190 0.100	< 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05
PM 01+50 0+00W PM 01+50 0+50W PM 01+50 1+00W PM 01+50 1+50W PM 01+50 0+50W	201 202 201 202 201 202 201 202 201 202 201 202	48.0 22.0 3.9 14.5 9.1	< 0.01 < 0.01 < 0.01 < 0.01 < 0.01	10 10 10 10 10	< 0.01 < 0.01 < 0.01 < 0.01 < 0.01	0.295 0.345 0.450 1.365 0.360	0.20 < 0.05 0.05 0.25 0.05	75 30 50 220 40	0.6 0.3 0.3 0.4 0.2	0.080 0.090 0.125 0.360 0.090	0.21 0.20 0.25 0.52 0.28	< 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005	< 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5	0.065 0.085 0.110 0.290 0.095	< 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05
PM 01+00N 1+00W PM 01+00N 1+50W PM 02+00N 0+00W PM 02+00N 0+50W PM 02+00N 1+00W	201 202 201 202 201 202 201 202 201 202 201 202	232 8.6 48.4 52.9 26.7	< 0.01 < 0.01 < 0.01 < 0.01 < 0.01	20 < 10 10 10 < 10	< 0.01 < 0.01 < 0.01 < 0.01 < 0.01	1.455 0.625 0.365 0.430 0.880	1.45 0.40 0.15 0.10 0.15	15 85 70 115 135	0.8 0.2 0.5 0.8 0.3	0.385 0.175 0.090 0.110 0.230	0.14 0.32 0.19 0.27 0.40	< 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005	< 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5	0.320 0.155 0.085 0.100 0.190	< 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05
PM 02+00N 1+50W PM 02+50N 0+00W PM 02+50N 0+50W PM 02+50N 1+00W PM 02+50N 1+50W	201 202 201 202 201 202 201 202 201 202 201 202	179.5 38.0 8.0 9.0 19.2	0.03 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01	10 10 20 10 10	0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01	1.555 0.320 0.510 0.865 0.780	0.35 0.20 0.10 0.05 0.15	190 25 90 85 130	1.2 0.3 0.3 0.5 0.4	0.410 0.080 0.140 0.230 0.200	0.58 0.17 0.25 0.36 0.43	< 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005	< 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5	0.305 0.075 0.130 0.190 0.160	< 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05
PM 03+00N 0+00W PM 03+00N 0+50W PM 03+00N 1+00W PM 03+00N 1+50W PM 03+50N 0+00W	201 202 201 202 201 202 201 202 201 202 201 202	47.5 4.4 7.3 4.4 10.4	< 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01	10 < 10 10 10 < 10	< 0.01 < 0.01 < 0.01 < 0.01 < 0.01 0.01	0.650 0.470 1.120 0.315 0.400	0.25 0.10 0.15 0.05 0.15	30 145 130 35 90	1.0 0.4 0.5 0.3 0.3	0.140 0.125 0.295 0.075 0.095	0.14 0.44 0.47 0.26 0.23	< 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005	< 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5	0.170 0.115 0.235 0.080 0.105	< 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05
PM 03+50N 0+50W PM 03+50N 1+00W PM 03+50N 1+50W PM 03+50N 1+50W PM 04+00N 0+00W PM 04+00N 0+50W	201         202           201         202           201         202           201         202           201         202           201         202           201         202	4.9 3.5 59.2 32.1 104.0	<pre>&lt; 0.01 &lt; 0.01 &lt; 0.01 &lt; 0.01 &lt; 0.01 0.01</pre>	10 10 10 < 10 < 10	< 0.01 < 0.01 < 0.01 < 0.01 < 0.01	0.595 0.345 0.280 0.545 0.585	0.20 0.15 0.20 0.05 0.15	150 70 20 45 115	0.4 0.2 0.6 0.3 0.4	0.150 0.085 0.075 0.140 0.155	0.37 0.47 0.30 0.30 0.51	< 0.005 < 0.005 < 0.005 < 0.005 < 0.005	< 0.5 < 0.5 < 0.5 < 0.5 K 0.5	0.160 0.095 0.065 0.140 0.145	< 0.05 < 0.05 < 0.05 < 0.05 < 0.05
	Le <del></del>			<u> </u>	<u>l</u>	L					· · · · · · · · · · · · · · · · · · ·			11 1 1	1

\* 0.1M NH2OH.HCI IN 0.04M HNO3. 1g/20ml FOR 2 HOURS @ ROOM TEMPERATURE.

CERTIFICATION:

· Davel



\* PLEASE NOTE

### .S Chemex Aurora Laboratory Services Ltd.

Analytical Chemists \* Geochemists \* Registered Assayers

212 Brooksbank Ave., North Vancouver British Columbia, Canada V7J 2C1 PHONE: 604-984-0221 FAX: 604-984-0218

BORONOWSKI, ALEX ſo:

3741 ST. ANDREWS AVE. VANCOUVER, BC V7N 2A6

Page Number :2-D Total Pages :3 Certificate Date: 28-AUG-2000 Invoice No. :10024480 P.O. Number : Account :CDB

Project : BLACKDOME Comments: ATTN: ALEX BORONOWSKI CC: CHRIS SEBERT

### **CERTIFICATE OF ANALYSIS** A0024480

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SAMPLE	PREP CODE	Sr ppm ICP-MS	Tb ppm ICP-MS	Te ppm ICP-MS	Th ppm ICP-MS	Ti ppm ICP-MS	Tl ppm ICP-MS	Tm ppm ICP-MS	U ppm ICP-MS	V ppm ICP-MS	W ppm ICP-MS	Yb ppm ICP-MS	Zn ppm ICP-MS	Zr ppm ICP-MS	B ppm ICP-MS
EC 11+00S 2+75E EC 11+00S 3+00E PM 00+00N 0+50E PM 00+00N 1+00E PM 02+50N 0+50E	201 202 201 202 201 202 201 202 201 202 201 202	2.35 1.95 11.45 10.35 10.30	0.030 0.025 0.015 0.015 0.005	< 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05	0.04 0.03 0.03 0.01 < 0.01	5 4 2 3 1	< 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005	0.005 0.005 0.005 0.005 < 0.005	0.045 0.035 0.025 0.030 0.010	0.30 0.75 1.15 1.75 0.75	< 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01	0.040 0.035 0.030 0.035 0.035 0.005	0.2 2.2 3.0 2.6 1.6	0.30 0.30 0.40 0.30 0.20	<pre></pre>
PM 03+00N 0+50E PM 03+50N 0+50E PM 04+00N 0+50E PM 04+50N 0+50E PM 00+00 0+00	201 202 201 202 201 202 201 202 201 202 201 202	15.60 14.65 16.45 14.90 13.90	< 0.005 0.020 0.015 0.015 0.015	< 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05	0.01 0.01 0.01 0.01 0.03	1 3 1 2 1	< 0.005 < 0.005 < 0.005 < 0.005 < 0.005	< 0.005 0.005 < 0.005 < 0.005 0.005	0.015 0.030 0.025 0.030 0.030	0.80 0.90 0.80 0.90 1.00	< 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01	0.020 0.050 0.025 0.025 0.025 0.030	2.6 3.6 4.4 2.2 3.6	0.25 0.25 0.20 0.25 0.30	< 2 < 2 < 2 < 2 < 2 < 2 < 2 < 2
PM 00+00N 0+50W PM 00+00N 1+00W PM 00+50N 0+50W PM 00+50N 1+00W PM 00+50N 1+50W	201 202 201 202 201 202 201 202 201 202 201 202	11.05 11.85 11.20 15.25 11.35	0.015 0.010 0.020 0.030 0.015	< 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05	0.04 0.01 0.01 0.03 0.03	3 2 3 3 3	< 0.005 < 0.005 0.005 < 0.005 < 0.005	0.005 < 0.005 0.005 0.005 < 0.005	0.035 0.035 0.030 0.035 0.035 0.030	2.20 1.60 1.20 2.10 1.50	< 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01	0.030 0.025 0.045 0.055 0.030	4.8 3.0 1.8 4.4 2.6	0.65 0.30 0.30 1.05 0.55	< 2 < 2 < 2 < 2 < 2 < 2 < 2 < 2 < 2 < 2
PM 01+50 0+00W PM 01+50 0+50W PM 01+50 1+00W PM 01+50 1+50W PM 01+00 0+50W	201 202 201 202 201 202 201 202 201 202 201 202	25.9 12.80 11.80 15.90 11.15	0.005 0.010 0.015 0.040 0.015	< 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05	0.01 0.12 0.03 0.10 0.01	2 2 2 3 1	< 0.005 < 0.005 0.005 < 0.005 < 0.005	< 0.005 < 0.005 < 0.005 0.015 < 0.005	0.025 0.025 0.025 0.060 0.030	1.55 1.10 1.40 1.95 1.25	< 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01	0.020 0.025 0.040 0.070 0.030	3.4 1.6 2.8 3.8 2.2	0.40 0.25 0.35 0.95 0.30	< 2 < 2 < 2 < 2 < 2 < 2 < 2 < 2
PM 01+00N 1+00W PM 01+00N 1+50W PM 02+00N 0+00W PM 02+00N 0+50W PM 02+00N 1+00W	201 202 201 202 201 202 201 202 201 202 201 202	44.1 14.00 14.95 15.70 17.45	0.050 0.020 0.010 0.015 0.025	< 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05	< 0.01 0.06 0.01 0.04 0.07	1 3 2 3 3	< 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005	0.015 0.005 < 0.005 < 0.005 0.005	0.045 0.035 0.025 0.025 0.025 0.045	1.80 2.00 0.85 1.10 1.15	< 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01	0.110 0.040 0.020 0.030 0.045	3.6 2.4 3.0 2.8 2.4	0.35 0.75 0.35 0.50 1.45	< 2 < 2 < 2 < 2 < 2 < 2 < 2 < 2
PM 02+00N 1+50W PM 02+50N 0+00W PM 02+50N 0+50W PM 02+50N 1+00W PM 02+50N 1+50W	201 202 201 202 201 202 201 202 201 202 201 202	19.55 15.00 17.10 12.40 16.30	0.045 0.010 0.015 0.025 0.020	< 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05	0.09 < 0.01 0.04 0.06 0.06	5 2 3 2 3	0.005 < 0.005 < 0.005 < 0.005 < 0.015	0.015 < 0.005 0.005 0.005 0.005	0.070 0.015 0.030 0.050 0.055	3.15 0.90 1.15 1.65 1.95	< 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01	0.085 0.020 0.040 0.060 0.050	4.2 3.8 2.6 2.0 3.4	1.05 0.25 0.50 0.60 0.65	< 2 < 2 < 2 < 2 < 2 < 2 < 2 < 2
PM 03+00N 0+00W PM 03+00N 0+50W PM 03+00N 1+00W PM 03+00N 1+50W PM 03+50N 0+00W	201 202 201 202 201 202 201 202 201 202 201 202	10.20 8.10 16.90 14.20 11.40	0.035 0.020 0.030 0.010 0.015	< 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05	< 0.01 0.06 0.12 0.01 0.04	2 3 4 1 4	< 0.005 < 0.005 < 0.005 < 0.005 < 0.005	0.020 0.005 0.005 < 0.005 0.005	0.050 0.045 0.055 0.025 0.025	1.40 1.35 2.55 1.00 1.20	< 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01	0.115 0.045 0.050 0.025 0.040	4.2 3.6 3.0 2.8 3.6	0.25 0.60 1.30 0.30 0.45	< 2 < 2 < 2 < 2 < 2 < 2 < 2 < 2 < 2
PM 03+50N 0+50W PM 03+50N 1+00W PM 03+50N 1+50W PM 03+50N 1+50W PM 04+00N 0+00W PM 04+00N 0+50W	201 202 201 202 201 202 201 202 201 202 201 202	11.40 9.65 21.0 13.20 10.30	0.020 0.015 0.005 0.020 0.020	< 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05	0.07 0.04 0.01 0.02 0.04	2 3 1 3	< 0.005 < 0.005 < 0.005 < 0.005 < 0.005	0.005 0.005 < 0.005 0.005 0.005	0.040 0.025 0.025 0.040 0.040	1.20 1.05 1.00 1.40 2.00	< 0.01 < 0.01 < 0.01 0.04 < 0.01	0.050 0.030 0.020 0.040 0.040	5.4 6.0 3.4 2.4 2.8	0.60 0.40 0.45 0.30 0.55	< 2 < 2 < 2 < 2 < 2 < 2 < 2 < 2 < 2 < 2
L			. <u> </u>	L	L	·		L	1	CEP		N:	Vauel	1.0	نــــــــــــــــــــــــــــــــــــ

\* 0.1M NH2OH.HCI IN 0.04M HNO3. 1g/20ml FOR 2 HOURS @ ROOM TEMPERATURE.

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Analytical Chemists \* Geochemists \* Registered Assayers

212 Brooksbank Ave., North Vancouver British Columbia, Canada V7J 2C1 PHONE: 604-984-0221 FAX: 604-984-0218

BORONOWSKI, ALEX 101

3741 ST. ANDREWS AVE. VANCOUVER, BC V7N 2A6

Page Number :2-E Total Pages :3 Certificate Date: 28-AUG-2000 Invoice No. : 10024480 P.O. Number : CDB Account

Project : BLACKDOME Comments: ATTN: ALEX BORONOWSKI CC: CHRIS SEBERT

A0004400

* PLEASE NOTE		_						CERTI	FICATE	OF AN	ALYSIS	Α	002448	0	
SAMPLE	PREP CODE	Ga ppm ICP-MS	Ge ppm ICP-MS	Hf ppm ICP-MS	In ppm ICP-MS	La ppm ICP-MS	Re ppm ICP-MS	Ta ppm ICP-MS	Y ppm ICP-MS	Leach pH					
EC 11+00S 2475E BC 11+00S 3+00E PM 00+00N 0+50E PM 00+00N 1+00E PM 02+50N 0+50E	201 202 201 202 201 202 201 202 201 202 201 202	0.25 0.25 0.10 0.15 0.10	< 0.1 < 0.1 < 0.1 < 0.1 < 0.1	0.02 0.01 0.01 0.01 < 0.01	< 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005	0.930 0.905 0.390 0.350 0.135	< 0.001 < 0.001 < 0.001 < 0.001 < 0.001	< 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01	0.480 0.520 0.305 0.375 0.090	1.5 1.5 1.5 1.5 1.5					
PM 03+00N 0+50E PM 03+50N 0+50E PM 04+00N 0+50E PM 04+00N 0+50E PM 04+50N 0+50E PM 00+00 0+00	201 202 201 202 201 202 201 202 201 202 201 202	0.05 0.15 0.15 0.10 0.15	< 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1	< 0.01 0.01 < 0.01 < 0.01 < 0.01 0.01	< 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005	0.180 0.725 0.465 0.380 0.525	< 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001	< 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01	0.130 0.485 0.280 0.285 0.330	1.5 1.5 1.5 1.5 1.5					
PM 00+00N 0+50W PM 00+00N 1+00W PM 00+50N 0+50W PM 00+50N 1+00W PM 00+50N 1+50W	201 202 201 202 201 202 201 202 201 202 201 202	0.15 0.15 0.10 0.15 0.15	< 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1	0.03 0.01 0.01 0.03 0.01	< 0.005 < 0.005 < 0.005 < 0.005 < 0.005	0.465 0.305 0.705 1.050 0.430	< 0.001 < 0.001 < 0.001 < 0.001 < 0.001	< 0.01 < 0.01 < 0.01 < 0.01 < 0.01	0.350 0.235 0.430 0.605 0.315	1.5 1.5 1.5 1.5 1.5	-			•	
PM 01+50 0+00W PM 01+50 0+50W PM 01+50 1+00W PM 01+50 1+50W PM 01+00 0+50W	201 202 201 202 201 202 201 202 201 202 201 202	0.15 0.10 0.10 0.15 0.05	< 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1	0.01 0.01 0.03 < 0.01	< 0.005 < 0.005 < 0.005 < 0.005 < 0.005	0.390 0.390 0.590 1.520 0.360	< 0.001 < 0.001 < 0.001 < 0.001 < 0.001	< 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01	0.225 0.240 0.320 0.850 0.300	1.5 1.5 1.5 1.5 1.5					
PM 01+00N 1+00W PM 01+00N 1+50W PM 02+00N 0+00W PM 02+00N 0+50W PM 02+00N 1+00W	201 202 201 202 201 202 201 202 201 202 201 202	0.20 0.15 0.10 0.15 0.15	< 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1	0.01 0.03 0.01 0.01 0.05	< 0.005 < 0.005 < 0.005 < 0.005 < 0.005	1.670 0.815 0.415 0.490 1.060	< 0.001 < 0.001 < 0.001 < 0.001 < 0.001	< 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01	1.200 0.435 0.270 0.315 0.525	1.5 1.5 1.5 1.5 1.5			-		
PM 02+00N 1+50W PM 02+50N 0+00W PM 02+50N 0+50W PM 02+50N 1+00W PM 02+50N 1+50W	201 202 201 202 201 202 201 202 201 202 201 202	0.20 0.10 0.20 0.20 0.25	< 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1	0.04 < 0.01 0.01 0.02 0.03	< 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005	1.850 0.360 0.645 1.055 0.885	< 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001	< 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01	0.895 0.220 0.400 0.610 0.495	1.5 1.5 1.5 1.5 1.5					
PM 03+00N 0+00W PM 03+00N 0+50W PM 03+00N 1+00W PM 03+00N 1+50W PM 03+50N 0+00W	201 202 201 202 201 202 201 202 201 202 201 202	0.15 0.20 0.15 0.15 0.15	< 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1	< 0.01 0.02 0.05 0.01 0.01	< 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005	0.505 0.530 1.455 0.380 0.440	< 0.001 < 0.001 < 0.001 < 0.001 < 0.001	< 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01	1.080 0.435 0.640 0.225 0.330	1.5 1.5 1.5 1.5 1.5					
PM 03+50N 0+50W PM 03+50N 1+00W PM 03+50N 1+50W PM 04+00N 0+00W PM 04+00N 0+50W	201 202 201 202 201 202 201 202 201 202 201 202	0.15 0.10 0.15 0.15 0.25	< 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1	0.02 0.01 0.01 0.01 0.01	< 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005	0.590 0.385 0.410 0.585 0.640	< 0.001 < 0.001 < 0.001 < 0.001 < 0.001	< 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01	0.470 0.285 0.210 0.435 0.445	1.5 1.5 1.5 1.5 1.5 1.5			$\left  \bigcap \right $	1	
L	<u> </u>	<b>J</b>	1 *	<u>I</u>	<u>I.                                    </u>	.i	, <b>i</b> ,	.i	<u>i</u>	CE		)N:	Nauc	Jep	+

\* 0.1M NH2OH.HCI IN 0.04M HNO3. 1g/20ml FOR 2 HOURS @ ROOM TEMPERATURE.



Analytical Chemists \* Geochemists \* Registered Assayers

North Vancouver V7J 2C1 212 Brooksbank Ave., North Vancouver British Columbia, Canada V7J 2C1 PHONE: 604-984-0221 FAX: 604-984-0218 to: BORONOWSKI, ALEX

3741 ST. ANDREWS AVE. VANCOUVER, BC V7N 2A6

Page Number :3-A Total Pages :3 Certificate Date: 28-AUG-2000 Invoice No. : 10024480 P.O. Number : CDB Account

Project : BLACKDOME Comments: ATTN: ALEX BORONOWSKI CC: CHRIS SEBERT

* PLEASE NOTE								CERTI	FICATE	OF AN	ALYSIS		4002448	30	<u></u>
SAMPLE	PREP CODE	Au ppb FA+AA	Ag ppm ICP-MS	A1 ppm ICP-MS	As ppm ICP-MS	Au ppm ICP-MS	Ba ppm ICP-MS	Be ppm ICP-MS	Bi ppm ICP-MS	Br ppm ICP-MS	Cappm ICP-MS	Cđ ppm ICP-MS	Ce ppm ICP-MS	Co ppm ICP-MS	Cr ppm ICP-MS
PM 04+00N 1+00W PM 04+00N 1+50W PM 04+50N 0+00W PM 04+50N 0+50W PM 04+50N 1+00W	201 202 201 202 201 202 201 202 201 202 201 202	2 5 2 5 2 10 2 < 5 2 < 5	0.006 0.006 0.002 0.006 0.012	1045 932 2250 1630 1515	< 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1	< 0.05 < 0.05 < 0.05 < 0.05 < 0.05	39.9 35.4 67.6 94.1 63.2	0.15 < 0.05 0.05 0.10 0.05	< 0.005 < 0.005 < 0.005 < 0.005 < 0.005	< 2 < 2 < 2 < 2 < 2 < 2 < 2 < 2	780 1050 1130 1260 1430	0.01 < 0.01 0.03 0.04 0.03	4.76 0.625 2.48 1.595 2.06	1.45 1.00 <u>1.20</u> 0.30 1.20	0.25 0.25 0.70 0.65 0.45
PM 04+50N 1+50W PM 00+50S 0+50E PM 00+50S 1+00E PM 00+50S 0+00W PM 00+50S 0+50W	201 202 201 202 201 202 201 202 201 202 201 202	$\begin{array}{c c} & < 5 \\ & \leftarrow 5 \\ & \leftarrow 10 \\ & \leftarrow 10 \\ & \leftarrow 5 \\ & \leftarrow 5 \\ & \leftarrow 5 \end{array}$	0.016 0.008 0.024 0.010 0.010	1385 896 881 1230 1025	< 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1	< 0.05 < 0.05 < 0.05 < 0.05 < 0.05	-80-4 61.8 67-2 67-6 68-4	0.10 0.05 0.30 0.05 0.05	< 0.005 < 0.005 < 0.005 < 0.005 < 0.005	<pre>&lt; 2 &lt; 2</pre>	1300 1280 2180 1000 1190	0.01 < 0.01 0.03 < 0.01 0.01	1.575 1.640 5.38 1.270 1.300	0.30 0.30 2.10 0.30 0.30	0.75 0.80 0.40 0.65 0.75
PM 00 505 1+00W IV-1 IV-2 IV-3 IV-4	201 202 201 202 201 202 201 202 201 202 201 202	2 <del>~ 5</del> 2 < 5 2 < 5 3 < 5 3 < 5	0.014 0.034 0.036 0.040 0.044	745 3530 4340 2190 4540	< 0.1 < 0.1 0.1 0.1 0.3	< 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05	-28.7 6.30 9.95 7.00 6.30	0.05 0.05 0.05 0.10 0.10	< 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005	< 2 < 2 < 2 < 2 < 2 < 2 < 2 2	1650 20 120 < 10 30	0.01 0.02 < 0.01 0.01 0.01	2.01 0.955 0.995 0.685 1.140	0.95 0.25 0.05 0.10 0.05	0.80 0.75 0.50 0.40 0.85
IV-5 IV-6 IV-7 IV-8 IV-9	201 202 201 202 201 202 201 202 201 202 201 202	2 < 5 5 2 < 5 2 < 5 2 < 5 2 < 5	0.056 0.052 0.046 0.066 0.046	2010 3180 2130 4320 1895	< 0.1 0.3 < 0.1 0.1 < 0.1	< 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05	6.65 7.30 7.40 7.15 9.55	0.05 0.05 0.05 0.05 0.05 0.05	< 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005	< 2 < 2 < 2 < 2 < 2 < 2 < 2 < 2	10 160 130 < 10 350	0.01 0.02 < 0.01 0.01 0.03	1.160 0.930 1.260 0.635 1.540	0.05 0.20 0.10 < 0.05 0.15	0.30 0.70 0.40 0.55 0.20
WV-1 WV-2 WV-3 WV-4 WV-5	201 202 201 202 201 202 201 202 201 202 201 202	<	0.030 0.030 0.036 0.042 0.050	4440 2400 416 918 4480	0.6 0.2 0.1 0.1 0.2	< 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05	10.30 17.30 16.05 43.3 15.50	0.05 0.05 < 0.05 0.05 0.20	< 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005	< 2 < 2 < 2 < 2 < 2 < 2 < 2 < 2	270 300 690 1100 310	0.04 0.03 0.04 0.01 0.03	0.825 0.560 1.890 2.71 1.365	0.80 0.60 0.35 0.40 0.10	1.05 0.65 0.25 0.55 0.80
₩V-6	201 202	2 < 5	0.010	2200	0.2	< 0.05	35.4	0.05	< 0.005	< 2	120	< 0.01	1.400	0.15	0.50
									-	CE	TIEICATIC	<u>پ</u>	L'Yaud	1 leh	L.

\* 0.1M NH2OH.HCI IN 0.04M HNO3. 1g/20mi FOR 2 HOURS @ ROOM TEMPERATURE.

CERTIFICATION:





Analytical Chemists \* Geochemists \* Registered Assayers 212 Brooksbank Ave., North Vancouver British Columbia, Canada V7J 2C1

PHONE: 604-984-0221 FAX: 604-984-0218

BORONOWSKI, ALEX

3741 ST. ANDREWS AVE. VANCOUVER, BC V7N 2A6 Page Number :3-B Total Pages :3 Certificate Date: 28-AUG-2000 Invoice No. : IO024480 P.O. Number : Account :CDB

Project : BLACKDOME Comments: ATTN: ALEX BORONOWSKI CC; CHRIS SEBERT

### **CERTIFICATE OF ANALYSIS** \* PLEASE NOTE A0024480 PREP Cs ppm Cu ppm Dy ppm Er pom Eu pom Fe ppm Gd ppm Hg ppm Ho ppm I ppm K ppm Li ppm Lu ppm Mg ppm SAMPLE CODE ICP-MS PM 04+00N 1+00W 201 202 < 0.005 0.50 0.380 0.185 0.080 215 0.465 0.070 < 0.1 < 0.1 95 < 0.05 0.020 179 PM 04+00N 1+50W 201 202 < 0.005 0.25 0.040 0.025 0.005 295 0.050 < 0.1 0.005 < 0.1 110 < 0.05 < 0.005 221 PM 04+50N 0+00W 201 202 0.005 0.35 0.130 0.070 0.030 525 0.150 < 0.1 0.025 115 0.10 0.005 144 0.2 PM 04+50N 0+50W 201 202 < 0.005 0.55 0.130 0.060 0.030 415 0.165 < 0.1 0.025 0.1 125 < 0.05 0.005 230 201 PM 04+50N 1+00W 202 0.005 0.45 0.105 0.045 0.025 425 0.125 < 0.1 0.020 0.1 110 0.70 < 0.005 197 PM 04+50N 1+50W 202 201 0.005 0.55 0.150 0.070 0.030 495 0.190 < 0.1 0.030 < 0.1 90 0.05 0.005 296 PM 00+505 0+50E 201 202 < 0.005 0.40 0.115 0.055 0.025 530 0.155 < 0.1 0.020 < 0.1 165 < 0.05 0.005 271 201 PM 00+505 1+00E 202 0.005 0.80 0.480 0.280 0.085 375 0.530 < 0.1 0.095 0.1 100 0.30 0.040 666 PM 00+505 0+00W 201 202 < 0.005 0.45 0.090 0.050 0.020 545 0.110 0.020 205 < 0.1 < 0.1 < 0.05 < 0.005 286 PM 00+50S 0+50W 201 202 < 0.005 0.45 0.110 0.045 0.030 560 0.135 < 0.1 0.020 < 0.1 140 < 0.05 < 0.005 225 PM 00 50s 1+00W 201 202 < 0.005 1.05 0.245 0.130 0.060 560 0.290 < 0.1 0.045 < 0.1 75 0.20 0.015 443 IV-1 201 202 0.040 0.025 0.80 0.095 0.020 270 0.110 < 0.1 0.015 0.9 35 0.05 < 0.005 12 IV-2 201 202 0.020 0.55 0.090 0.040 0.025 170 0.145 < 0.1 0.015 10 0.8 15 0.10 < 0.005 IV-3 201 202 0.055 0.40 0.055 0.020 0.010 370 0.075 < 0.1 0.005 0.6 30 < 0.05 < 0.005 9 IV-4 201 202 0.055 0.55 0.075 0.025 0.020 270 0.100 < 0.1 0.015 1.5 20 0.05 < 0.005 5 IV-5 201 202 0.120 0.40 0.085 0.030 0.020 150 0.115 < 0.1 0.015 0.5 20 < 0.05 < 0.005 14 IV-6 201 202 0.305 0.65 0.065 0.020 0.015 490 0.075 < 0.1 0.010 0.8 45 < 0.005 21 0.15 IV-7 201 202 0.455 0.85 0.085 325 0.030 0.020 0.125 < 0.1 0.015 0.6 25 0.05 < 0.005 10 IV-8 201 202 0.025 0.25 0.050 0.025 0.010 160 0.070 < 0.1 0.010 1.0 40 0.05 < 0.005 7 IV-9 201 202 0.060 0.50 0.120 0.045 0.025 135 0.155 < 0.1 0.020 0.4 70 0.10 < 0.005 33 202 WV-1 201 0.005 0.55 0.090 0.040 0.020 325 0.110 < 0.005 < 0.1 0.015 0.6 50 0.15 27 WV-2 201 202 0.005 0.45 0.055 0.025 0.010 415 0.070 < 0.1 0.010 0.4 125 < 0.05 < 0.005 41 WV-3 201 202 0.080 0.50 0.130 0.065 0.040 200 0.210 < 0.1 0.025 < 0.1 30 0.15 0.005 136 202 WV-4 201 0.005 0.50 0.295 0.145 0.080 315 0.415 < 0.1 0.055 0.2 20 0.20 0.015 134 WV-5 201 202 0.010 0.35 0.145 0.075 0.025 190 0.160 < 0.1 0.025 0.7 30 < 0.05 0.005 42 201 202 WV-6 0.005 0.35 0.125 0.060 0.025 170 0.150 < 0.1 0.025 0.3 25 0.05 0.005 33

\* 0.1M NH2OH.HCI IN 0.04M HNO3. 1g/20ml FOR 2 HOURS @ ROOM TEMPERATURE.

CERTIFICATION:

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Analytical Chemists \* Geochemists \* Registered Assayers

212 Brooksbank Ave., North Vancouver British Columbia, Canada V7J 2C1 PHONE: 604-984-0221 FAX: 604-984-0218

io: BORONOWSKI, ALEX

3741 ST. ANDREWS AVE. VANCOUVER, BC V7N 2A6

Page Number :3-C Total Pages :3 Certificate Date: 28-AUG-2000 Invoice No. :10024480 P.O. Number : :CDB Account

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CERTIFICATION:

Project : BLACKDOME Comments: ATTN: ALEX BORONOWSKI CC: CHRIS SEBERT

* PLEASE NOTE						<b>.</b>			CERTI	FICATE	OF AN	ALYSIS	6	4002448	30	
SAMPLE		PREP	Mn ppm ICP-MS	Mo ppm ICP-MS	Na ppm ICP-MS	Nb ppm ICP-MS	Nd ppm ICP-MS	Ni ppm ICP-MS	P ppm ICP-MS	Pb ppm ICP-MS	Pr ppm ICP-MS	Rb ppm ICP-MS	Sb ppm ICP-MS	Se ppm ICP-MS	Sm ppm ICP-MS	Sn ppm ICP-MS
PM 04+00N 1+00W PM 04+00N 1+50W PM 04+50N 0+00W PM 04+50N 0+50W	20 20 20	1 202 1 202 1 202	257 38.5 894	< 0.01 < 0.01 0.01	10 10 10	< 0.01 < 0.01 < 0.01	1.980 0.230 0.690	0.25 0.10 0.25	< 5 20 50	1.0 0.6 1.1	0.505 0.060 0.185	0.17 0.29 0.36	< 0.005 < 0.005 < 0.005	< 0.5 < 0.5 < 0.5	0.425 0.065 0.160	< 0.05 < 0.05 < 0.05
PM 04+50N 1+00W	20	1 202	12.0	< 0.01	10 10	< 0.01 < 0.01	0.730	0.35	60 5	0.6	0.190 0.175	0.30 0.43	< 0.005 < 0.005	< 0.5 < 0.5	0.170 0.140	< 0.05 < 0.05
PM 04+50N 1+50W PM 00+50S 0+50E PM 00+50S 1+00E PM 00+50S 0+00W PM 00+50S 0+00W	20: 20: 20: 20: 20:	202 202 202 202 202 202 202	22.0 7.0 420 4.0 10.1	0.07 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01	10 10 20 10 10	< 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01	0.745 0.630 1.840 0.505 0.580	0.35 0.20 2.40 0.10 0.10	90 115 15 135 120	0.3 0.3 1.3 0.5 0.5	0.180 0.165 0.430 0.130 0.150	0.36 0.24 0.43 0.29 0.35	< 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005	< 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5	0.195 0.155 0.450 0.115 0.150	< 0.05 < 0.05 < 0.05 < 0.05 < 0.05
FM 60 50S 1+00W           IV-1           IV-2           IV-3           IV-4	201 201 201 201 201	202 202 202 202 202 202	46.3 46.1 3.4 9.9 3.7	< 0.01 < 0.01 < 0.01 < 0.01 < 0.01	10 10 10 10 10	< 0.01 0.01 < 0.01 < 0.01 0.03	1.155 0.520 0.565 0.290 0.445	1.10 0.50 0.25 0.15 0.20	45 45 90 65 125	0.7 0.8 0.4 0.9 0.4	0.285 0.130 0.150 0.075 0.120	0.34 0.36 0.24 0.64 0.55	< 0.005 < 0.005 < 0.005 < 0.005 < 0.005 0.005	< 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5	0.270 0.100 0.110 0.065 0.100	< 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05
IV-5 IV-6 IV-7 IV-8 IV-9	201 201 201 201 201	202 202 202 202 202 202	5.2 22.8 6.7 3.0 23.0	< 0.01 < 0.01 < 0.01 < 0.01 < 0.01	20 10 10 10 10	< 0.01 0.01 < 0.01 < 0.01 < 0.01 < 0.01	0.560 0.330 0.520 0.295 0.765	0.15 0.40 0.25 0.25 0.40	25 95 20 40 50	0.9 0.4 0.6 1.0 0.5	0.150 0.090 0.140 0.080 0.200	0.59 0.64 0.60 0.52 0.72	< 0.005 < 0.005 < 0.005 0.010 < 0.005	< 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5	0.110 0.070 0.110 0.065 0.170	< 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05
WV-1 WV-2 WV-3 WV-4 WV-5	201 201 201 201 201	202 202 202 202 202 202	31.7 25.3 22.8 13.4 3.3	< 0.01 < 0.01 < 0.01 < 0.01 < 0.01	10 < 10 10 20 10	0.01 0.01 < 0.01 < 0.01 < 0.01 < 0.01	0.410 0.300 0.795 1.800 0.675	0.25 0.20 0.40 0.10 0.15	215 120 < 5 165 145	1.2 1.0 0.7 0.4 0.3	0.100 0.065 0.185 0.405 0.165	0.33 0.30 0.34 0.24 0.30	0.005 < 0.005 0.015 < 0.005 0.005	< 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5	0.105 0.065 0.190 0.400 0.145	< 0.05 < 0.05 < 0.05 < 0.05 < 0.05
₩ <b>V6</b>	201	202	3.7	< 0.01	10	< 0.01	0.695	0.05	45	0.8	0.170	0.27	< 0.005	< 0.5	0.150	< 0.05
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\* 0.1M NH2OH.HCI IN 0.04M HNO3. 1g/20ml FOR 2 HOURS @ ROOM TEMPERATURE.



Analytical Chemists \* Geochemists \* Registered Assayers

212 Brooksbank Ave., North Vancouver British Columbia, Canada V7J 2C1 PHONE: 604-984-0221 FAX: 604-984-0218 10: BORONOWSKI, ALEX

3741 ST. ANDREWS AVE. VANCOUVER, BC V7N 2A6 Page Number :3-D Total Pages :3 Certificate Date: 28-AUG-2000 Invoice No. :10024480 P.O. Number : Account :CDB

Project : BLACKDOME Comments: ATTN: ALEX BORONOWSKI CC: CHRIS SEBERT

* PLEASE NOTE								CERTI	FICATE	OF AN	ALYSIS	<u> </u>	1002448	30	
SAMPLE	PREP CODE	Sr ppm ICP-MS	Tb ppm ICP-MS	Te ppm ICP-MS	Th ppm ICP-MS	Ti ppm ICP-MS	T1 ppm ICP-MS	Tm ppm ICP-MS	U ppm ICP-MS	V ppm ICP-MS	W ppm ICP-MS	Yb ppm ICP-MS	Zn ppm ICP-MS	Zr ppm ICP-MS	B ppm ICP-MS
PM 04+00N 1+00W PM 04+00N 1+50W PM 04+50N 0+00W PM 04+50N 0+50W PM 04+50N 1+00W	201 202 201 202 201 202 201 202 201 202 201 202	13.95 20.2 17.00 23.2 21.1	0.070 0.005 0.020 0.025 0.020	< 0.05 < 0.05 < 0.05 < 0.05 < 0.05	0.01 0.01 0.04 0.05 0.02	1 2 4 3 3 3	< 0.005 < 0.005 0.005 < 0.005 < 0.005	0.025 < 0.005 0.005 0.005 0.005	0.050 0.020 0.040 0.050 0.045	0.95 1.00 <u>1.80</u> 1.55	< 0.01 < 0.01 < 0.01 < 0.01 < 0.01	0.150 0.020 0.055 0.050 0.030	1.8 2.6 4.0 4.6 3.4	0.30 0.30 0.60 0.65	<pre></pre>
PM 04+50N 1+50W PM 00+50S 0+50E PM 00+50S 1+00E PM 00+50S 0+50W PM 00+50S 0+50W	201 202 201 202 201 202 201 202 201 202 201 202	17.65 16.75 23.0 13.15 10.65	0.025 0.020 0.075 0.015 0.020	< 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05	0.03 0.05 < 0.01 0.04 0.03	3 3 1 2 2	< 0.005 < 0.005 0.005 < 0.005 < 0.005	0.005 0.005 0.040 0.005 0.005	0.045 0.035 0.110 0.040 0.040	1.95 2.15 3.50 1.75	< 0.01 < 0.01 < 0.01 < 0.01 < 0.01	0.055 0.040 0.245 0.035 0.040	3.8 1.8 4.8 2.8 2.0	0.55 0.80 0.30 0.70	< 2 < 2 < 2 < 2 < 2 < 2 < 2
PM 00 505 1+00W IV-1 IV-2 IV-3 IV-4	201 202 201 202 201 202 201 202 201 202 201 202	16.15 0.85 1.20 0.70 0.50	0.045 0.015 0.020 0.010 0.020	< 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05	0.01 0.04 0.05 0.03 0.11	- 4 4 2 2 4	< 0.005 0.005 < 0.005 0.005 0.005	0.015 0.005 0.005 < 0.005 < 0.005	0.135 0.030 0.020 0.020 0.020 0.030	3.70 0.80 0.40 0.25 0.25	< 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01	0.100 0.035 0.025 0.015 0.020	4.4 9.6 6.0 5.6 7.4	0.45 0.60 0.55 0.30 0.90	< 2 < 2 < 2 < 2 < 2 < 2 < 2
IV-5 IV-6 IV-7 IV-8 IV-9	201 202 201 202 201 202 201 202 201 202 201 202	1.25 1.50 0.95 1.10 2.05	0.020 0.010 0.020 0.010 0.025	< 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05	0.01 0.06 0.04 0.06 0.01	1 3 2 2 1	< 0.005 0.005 0.005 0.005 0.005	< 0.005 < 0.005 < 0.005 < 0.005 < 0.005 0.005	0.030 0.045 0.015 0.020 0.020	0.20 0.45 0.25 0.25 0.30	< 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01	0.015 0.015 0.020 0.015 0.030	7.8 10.2 7.0 5.4 5.2	0.20 0.50 0.30 0.75 0.25	< 2 < 2 < 2 < 2 < 2 < 2 < 2 < 2 < 2 < 2
WV-1 WV-2 WV-3 WV-4 WV-5	201 202 201 202 201 202 201 202 201 202 201 202	2.65 3.50 6.65 14.95 4.20	0.015 0.015 0.025 0.060 0.025	< 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05	0.07 0.05 < 0.01 0.03 0.09	6 6 2 4 3	< 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005	0.005 < 0.005 0.005 0.020 0.005	0.040 0.035 0.040 0.065 0.040	0.95 0.90 0.45 1.40 1.00	< 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01	0.035 0.025 0.040 0.115 0.055	4.4 3.0 3.4 2.0 4.4	0.70 0.55 0.05 0.25 0.75	<pre>x &lt; x &lt;</pre>
WV-6	201 202	4.00	0.020	< 0.05	0.04	3	< 0.005	0.005	0.045	0.80	< 0.01	0.050	1.6	0.50	< 2
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										CEE	TIFICATIO	N• *	1 Vaim	V 1.17	+

\* 0.1M NH2OH.HCI IN 0.04M HNO3. 1g/20mi FOR 2 HOURS @ ROOM TEMPERATURE.



Analytical Chemists \* Geochemists \* Registered Assayers

212 Brooksbank Ave., North Vancouver British Columbia, Canada V7J 2C1 PHONE: 604-984-0221 FAX: 604-984-0218 To: BORONOWSKI, ALEX

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3741 ST. ANDREWS AVE. VANCOUVER, BC V7N 2A6 Page Number :3-E Total Pages :3 Certificate Date: 28-AUG-2000 Invoice No. : 10024480 P.O. Number : Account :CDB

Project : BLACKDOME Comments: ATTN: ALEX BORONOWSKI CC: CHRIS SEBERT

### \* PLEASE NOTE **CERTIFICATE OF ANALYSIS** A0024480 PREP Ga ppm Ge ppm Hf ppm In ppm La ppm Re ppm Ta ppm Y ppm Leach SAMPLE ICP-MS CODE ICP-MS ICP-MS ICP-MS ICP-MS ICP-MS ICP-MS ICP-MS pĦ PM 04+00N 1+00W 201 202 0.15 < 0.1 0.01 < 0.005 < 0.001 2.08 < 0.01 1.605 1.5 PM 04+00N 1+50W 201 202 0.15 < 0.1 0.01 < 0.005 0.275 < 0.001 < 0.01 0.175 1.5 201 202 PM 04+50N 0+00W 0.30 < 0.1 0.02 < 0.005 0.790 < 0.001 < 0.01 0.510 1.5 PM 04+50N 0+50W 201 202 0.20 < 0.1 0.02 < 0.005 0.880 < 0.001 < 0.01 0.585 1.5 PM 04+50N 1+00W 201 202 0.20 < 0.1 0.03 < 0.005 0.925 < 0.001 < 0.01 0.425 1.5 PM 04+50N 1+50W 201 202 0.20 < 0.1 0.02 < 0.005 0.745 < 0.001 0.650 < 0.01 1.5 PM 00+505 0+50E 201 202 0.15 < 0.1 0.03 l< 0.005 0.815 < 0.001 < 0.01 0.495 1.5 PM 00+505 1+00E 201 202 0.15 < 0.1 0.01 < 0.005 1.600 < 0.001 < 0.01 2.62 1.5 PM 00+505 0+00W 201 202 0.15 < 0.1 0.01 < 0.005 0.565 < 0.001 < 0.01 0.380 1.5 PM 00+50S 0+50W 201 202 0.15 < 0.1 0.01 < 0.005 0.590 < 0.001 < 0.01 0.450 1.5 PM 00 505 1+00W 201 202 0.20 < 0.1 0.01 < 0.005 1.015 < 0.001 < 0.01 1.060 1.5 IV-1 201 202 0.40 < 0.1 0.02 < 0.005 < 0.001 0.530 < 0.01 0.370 1.5 IV-2 201 202 0.25 < 0.1 0.01 < 0.005 0.515 < 0.001 < 0.01 0.380 1.5 201 202 IV-3 0.15 < 0.1 < 0.01 < 0.005 0.305 < 0.001 < 0.01 0.185 1.5 IV-4 201 202 0.30 < 0.1 < 0.005 0.04 0.505 < 0.001 < 0.01 0.245 1.5 IV-5 201 202 0.25 < 0.1 < 0.01 < 0.005 0.575 < 0.001 < 0.01 0.290 1.5 IV-6 201 202 0.25 < 0.1 0.01 < 0.005 0.460 < 0.001 < 0.01 0.225 1.5 IV-7 201 202 0.15 < 0.1 < 0.01 < 0.005 0.800 < 0.001 0.280 < 0.01 1.5 IV-8 201 202 0.30 < 0.1 0.03 < 0.005 0.340 < 0.001 0.190 < 0.01 1.5 IV-9 201 202 0.30 < 0.1 < 0.01 < 0.005 0.755 < 0.001 0.420 < 0.01 1.5 WV-1 201 202 0.20 < 0.1 0.03 < 0.005 0.350 < 0.001 0.330 < 0.01 1.5 WV-2 201 202 0.20 < 0.1 0.02 < 0.005 0.255 < 0.001 < 0.01 0.235 1.5 WV-3 201 202 0.10 < 0.1 < 0.01 < 0.005 0.680 i< 0.001 < 0.01 0.715 1.5 < 0.1 WV-4 201 202 0.15 0.01 < 0.005 1.380 < 0.001 < 0.01 1.270 1.5 WV-5 201 202 0.15 < 0.1 0.03 < 0.005 0.680 < 0.001 < 0.01 0.605 1.5 WV-6 201 202 0.20 < 0.1 0.01 < 0.005 0.590 < 0.001 < 0.01 0.480 1.5

CERTIFICATION:

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Analytical Chemists \* Geochemists \* Registered Assayers

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3741 ST. ANDREWS AVE. VANCOUVER, BC V7N 2A6

Project : BLACK DOME Comments: ATTN: ALEX BORONOWSKI

Page Number :1 Total Pages :1 Certificate Date: 27-OCT-2000 Invoice No. :10031571 P.O. Number : Account CDB

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To: BORONOWSKI, ALEX

3741 ST. ANDREWS AVE. VANCOUVER, BC V7N 2A6

Page Number :1 Total Pages :1 Certificate Date: 10-AUG-2000 Invoice No. :10024892 P.O. Number : :CDB Account

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Project : BLACKDOME Comments: ATTN: ALEX BORONOWSKI CC: CHRIS SEBERT

### A0024892 **CERTIFICATE OF ANALYSIS**

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PREP SAMPLE CODE	Au ppb FA+AA		
PMH 1     244       PMH 2     244       PMH 3     244       PMH 4     244       PMH 5     244	< 10 < 5 5 5 < 10		
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3741 ST. ANDREWS AVE. VANCOUVER, BC V7N 2A6 Page Number :1-A Total Pages :1 Certificate Date: 07-AUG-2000 Invoice No. :10024482 P.O. Number : Account :CDB

Project : BLACKDOME Comments: ATTN: ALEX BORONOWSKI CC: CHRIS SEBERT

BARDLE         PREP         Ag         Al         As         B         Ba         Bo         Bi         Ca         Cd         Co         Cr         Cu         Pe         Ga         Hg         X         La         Mg         Mn           BANDLE         Co         Co         1         Co         1         1         30         70         4.0          1         1         1         6.63         10         1         0.06         5         1         1         6.63         10         1         0.06         5         7         1         0.06         0         5         7         10         10         0.06         10         0.65         7         10         10         10         0.06         10         0.65         7         10         10         10         0.06         10         0.53         7         15         10         10         10         0.06         10         0.05         17         150         10         10         0.06         10         0.05         17         150         10         10         0.06         10         0.1         10         0.06         10         0.05		 									CERTIFICATE OF ANALYSIS						<b>YSIS</b>		10024			
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Page Number :1-B Total Pages :1 Certificate Date: 07-AUG-2000 Invoice No. :10024482 P.O. Number : Account :CDB

Project : BLACKDOME Comments: ATTN: ALEX BORONOWSKI CC: CHRIS SEBERT

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:1-A er Page :1 Total Pases Certificate Date: 08-AUG-2000 Invoice No. : 10024485 Invoice No. 1 P.O. Number CDB Account

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:1-B Page per Total Pages :1 Certificate Date: 08-AUG-2000 Invoice No. :10024485 P.O. Number : CDB Account

Project : BLACKDOME Comments: ATTN: ALEX BORONOWSKI CC;CHRIS SEBERT

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## **APPENDIX VII: Declaration and Statement of Qualification**

## Statements of Qualification and Declaration of the Authors

I, Alexander J. Boronowski, of the District of North Vancouver, in the province of British Columbia, do certify that:

- 1) I am a graduate of the Faculty of Science, University of British Columbia 1970, with a B.Sc. degree in Geology.
- 2) I am registered with the Association of Engineers and Geoscientists of British Columbia and I am a Fellow of the Geological Association of Canada.
- 3) The information in this report was obtained from sources as cited in the report and from personal experience gained during 22 days prospecting.

Recardes Panomen C: Alexander Boronowski

I, Christopher Sebert, residing at 19616-80<sup>th</sup> Ave, Langley, British Columbia declare:

- 1) I am a registered Geological Engineer in the province of British Columbia.
- 2) I hold a Bachelors and Masters degree in Geological Engineerng obtained at the University of British Columbia in 1987 and 1998 respectively.
- 3) I have worked in the mining industry as an exploration and mine geologist for 9 years.
- 4) To the best of my knowledge, the information contained in this report is true and correct.

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