Geological and Geochemical Assessment
of the
GAP claim

GAP 504390;

Alberni Mining Division

NTS 92F/2

Geographic Centre of Claim
Lat: 49°10'25"
Long: 124°38'30"

Owner: Bitterroot Resources Ltd. (75%)
Michael Becherer (25%)
Operator: Bitterroot Resources Ltd.

Author: Hardolph Wasteneys Ph.D.

Date submitted: April 5, 2006

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Introduction

Location and Access:

The claim is 13 km SE of Port Alberni (Fig. 1) and accessed either from the south side via the China Creek Road 1.5km east of the China Creek bridge and involving fording China Creek or on the north side via the Cop Creek (COP 111) logging roads from Cameron Main. New logging roads were under construction for Island Timberlands to about the 1150 m contour on the north side of McLaughlin Ridge in November 2005.

The GAP claim covers 169 ha and was staked using the online staking routine (Mineral Titles Online) on January 20, 2005 by Michael Becherer. It was optioned to Bitterroot Resources and is currently held 75% Bitterroot/25% M. Becherer.

Physiography

The GAP claim is situated on the SW facing slope of McLaughlin Ridge 1 km east of Mineral Creek and extending from China Creek at an elevation of 400 m asl to the 1100 m contour on the north side of McLaughlin Ridge (Fig. 2). Up to about 600 m in the China Creek valley the slope is moderate, underlain by valley-filling tills and talus and second growth timber. Above 600 m up to about 1050m the slope steepens to 35° to 40° with apparently thin talus, few unambiguous outcrops and old growth Douglas fir. A deeply incised creek cuts the slope through the central part of the claim exposing continuous rock outcrop down to about the 500m elevation. The northern section of the claim covers a rounded E-W trending section of McLaughlin Ridge with elevations up to 1300m and presently covered by mixed Douglas fir and Mountain Hemlock old growth timber on discontinuous bluffy outcrops.

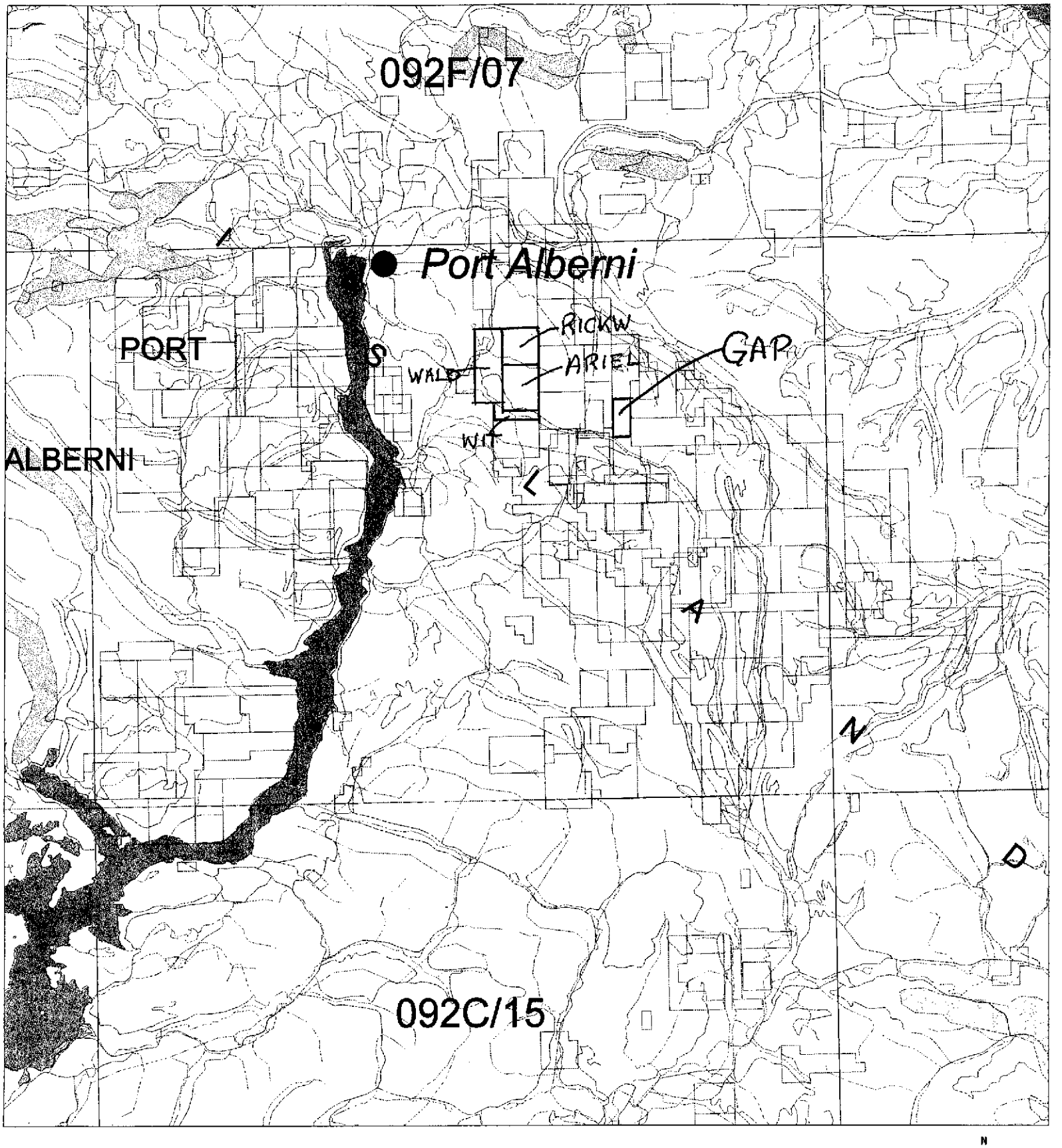
Previous Work

The ground has been previously staked as part of the DDAM and subsequently the ROOK 9-16 claims which also covered ground east to Henry Lake. There are no recorded mineral occurrences within the claim area.

Summary of work done

The present work involved two man-days of geological mapping, sampling and prospecting throughout the claim area. Eleven rock samples and two moss mat samples collected from altered fracture zones, ductile shear zones and oxide-facies iron formation were analyzed for Au and 41 elements available by ICP-ES. Exploration work took place on October 27, 28 and part of November 22, 2005. Heavy snow curtailed work after October 28. One traverse from China Creek focused on the southern China creek slope and the creek canyon between 500 and 1050m elevation. A second traverse from Henry Lake covered the upper south-facing slope of McLaughlin Ridge along the 950m

Figure 1: Claim location map



SCALE 1 : 250,000

2 0 2 4 6

MILES

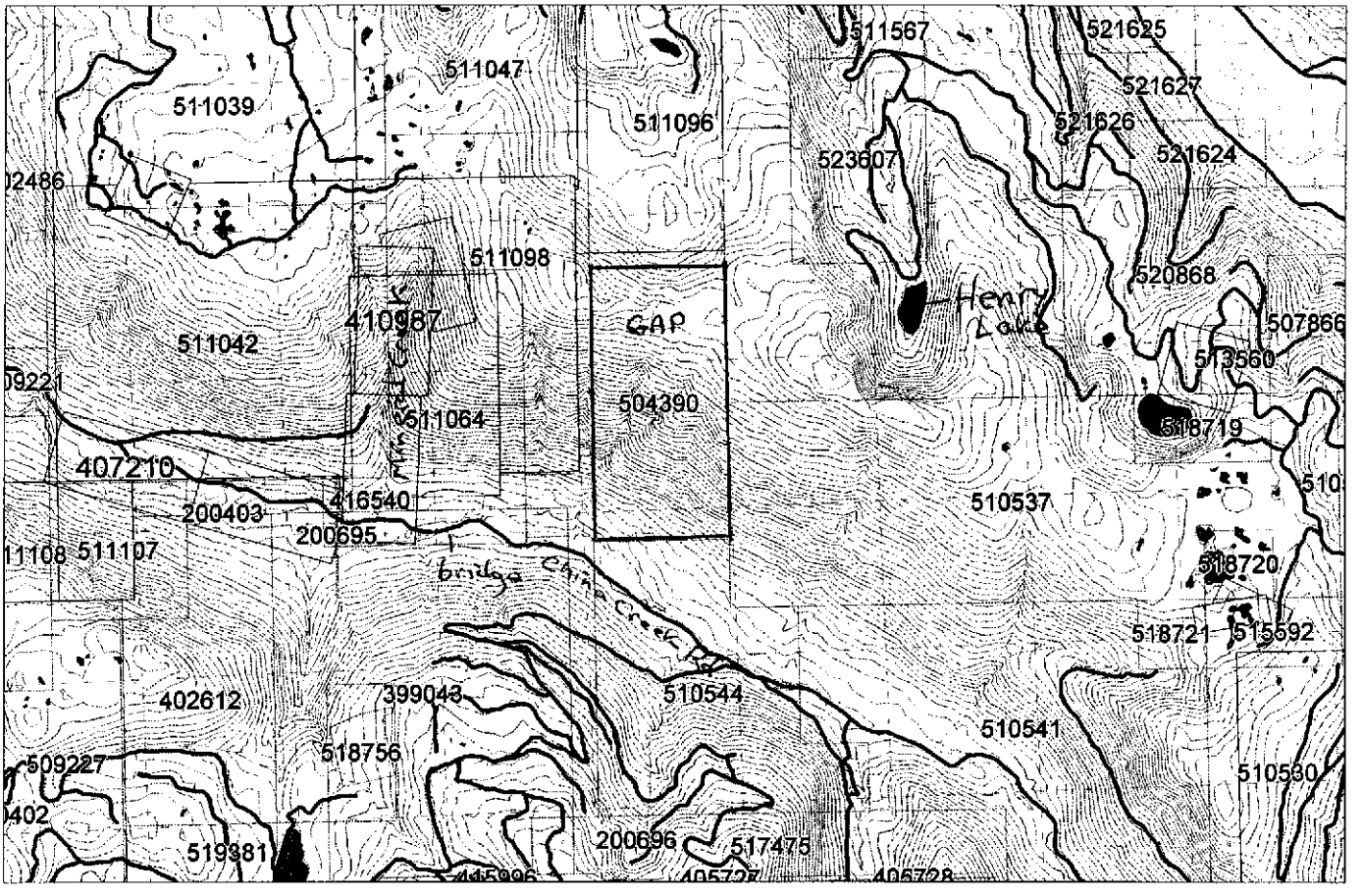
N

page 2

http://webmap.em.gov.bc.ca/mapplace/maps/minpot/bcgs.MWF

Tuesday, April 04, 2006 5:06 PM

Figure 2: Gap claim physiography 1:50,000



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and 1050 m contours and parts of the Cop Creek basin. Subsequent work followed construction of the new logging road along the north boundary of the claim.

Samples collected and analyzed include 11 rock chip samples and two moss mat samples from creeks on the south slope. Analytical costs for Au and 41 element ICP-ES were $29.00 per sample totaling $377.00 for 13 samples. Rental truck and fuel costs averaged $137.72 per day for this and associated programs amounting $275.44 for 2 days. Food and accommodation cost amounted to $201.21. Professional fees for 2 field days plus one report-writing day at $400/d amounted to $1200. The total cost of exploration work including field work, analytical work and report writing is $2053.66. Costs are tabulated in Table 1

Local and regional geology

McLaughlin Ridge is principally underlain by an uplifted section of Devonian Sicker Group volcanic rocks of ocean ridge evolving-to island arc origin, bounded by steeply inclined east verging Cenozoic thrust faults which structurally juxtapose Jurassic Karmutsen Formation mafic oceanic flood volcanics and Cretaceous Nanaimo Group clastic sedimentary rocks against the Sicker Group. Fault bounded slivers of the Permian Buttle Lake Group consisting of bioclastic limestones and fine grained argillaceous sediments sporadically occur on the margins of the Sicker Group rocks below the Karmutsen Formation. Formational subdivisions of the Sicker Group recognized on McLaughlin Ridge include the basal Duck Lake Formation which typically consists of basaltic breccias and marked by a transition to tuffs and marine sediments with oxide-facies iron formation lenses near the top, the Nitinat Formation characterized by pyroxene-phyric basaltic flows and breccias and crystal-lithic volcaniclastics and the McLaughlin Ridge Formation characterized by well-bedded volcaniclastics.

The dominant structural trend in the area is NW consisting of open disharmonic folds observable in finely laminated volcaniclastic sedimentary rocks of the Sicker Group and penetrative cleavages variably developed as discrete shear zones mostly developed west of Mineral Creek. North-south trending carbonate-altered fractures are typically found throughout the area with the most prominent being the Mineral Creek-Yellows Creek system that has been the focus of much previous exploration and is associated with several secondary-structure gold occurrences coinciding with oxide-facies iron formations and cherts.

Summary of mineralization

No occurrences of economic interest were discovered during the current work. Lenses of oxide-facies iron formation were found in tuffaceous to argillaceous sediments on the China Creek slope between 530 and 650m elevation. Narrow N-S trending carbonate altered shear zones and fractures were discovered on the north slopes of the claim. A 12m wide strongly foliated shear zone that appears to trend parallel to the

regional structures characterizing Mesozoic deformation is cut by the steep creek on the China Creek slope.

Claim Geology

Within the GAP claim boundaries elements of the upper Duck Lake, Nitinat and McLaughlin Ridge Formations were recognized during the current work. The Duck Lake Formation was recognized by the occurrence of jasper-hematite and jasper-magnetite lenses and associated silty sediments probably representing a hiatus in volcanism at the transition to calc-alkaline volcanism of the Nitinat Formation. Pyroxene-phyric flows and breccias higher on the China Creek slope were assumed to represent the Nitinat Formation; most of the section consisted of fine-grained feldspar-pyroxene - phyric flows and breccias. Finely laminated cherty sediments were observed only in talus near the crest of McLaughlin Ridge and outside of the claim near Henry Lake and 1 km north of the claim boundary in the Cop Creek basin.

The jasper-chert-hematite±magnetite beds cut by the creek at 530m elevation have an attitude of 168°/30°W. Similar rocks were discovered in float about 400m east below a maximum 670m altitude indicating probable continuity of the same oxide-facies iron formation beds or horizon within siltstones.

Few primary structures were observed within the claim area. Above the jasper float occurrence siltstone-sandstone beds in a possibly displaced outcrop strike 050°/40°SE indicating broad folding of the sequence. Near Henry Lake well exposed beds of McLaughlin Ridge Formation turbiditic volcaniclastic sediments with bedding attitudes of 222°/75°W display clear fining upward sequences. The steep bedding may be indicative of proximity to shear zones which form a NNW linear depression defining the west branch of Cop Creek. These beds become shallower dipping to the west. Similar lithologies north of the GAP claim in the Cop Creek basin are broadly folded with gentle dips. Generally, these sparse attitudes indicate that the stratigraphic sequence in the GAP claim is upright and gently/broadly folded. The contact between the Nitinat and the McLaughlin Ridge Formations is not exposed and it is not certain if the McLaughlin Ridge Formation continues through the crest of the ridge or if it is folded above the ridge. Most of the ridge crest above 900 m, where outcrops are more continuous, appears to be underlain by massive plagioclase-phyric basaltic flows flow-breccias and crystal-lithic tuffs.

Most outcrops display no macroscopic evidence of penetrative cleavage. Structural fabric development is restricted to discrete shear zones such as a NNW trending shear zone cut by the creek bed at 835m elevation on the China Creek slope. Vertical N-S fractures with phyllic and carbonate alteration are narrow and appear to occur at intervals of about 500m Some altered fracture occurrences were exposed in rock cuts during recent construction while others were found in narrow N-S creek beds. Orange weathering alteration generally extends to 50cm from thin quartz or carbonate veins of variable orientation within the narrow N-S fracture zone.

Geochemical Analyses

Geochemical results from samples of vein and altered wall rocks in the N-S fractures range from below detection limit of <5 ppb to 33 ppb Au and from <2 ppm to 31 ppm As. Au and As show independent variation that is almost antipathetic. However, most values are below or near threshold values for anomalous concentration of Au and As based on results from elsewhere in the region. Anomalous gold concentrations in rocks are above threshold of about 20 ppb whereas for As the threshold value is about 20 ppm. Thus, the antipathetic variations are not necessarily indicative of a mineralization relationship. Two oxide-facies iron formations samples yielded Au and As values of 6 ppb, 15 ppm and 32 ppb, <2 ppm respectively for a magnetite-jasper breccia sample and jasper-hematite layers in siltstone. In the samples from carbonate altered N-S fractures the highest As values of 28 and 31 ppm correspond to sub-detection limit gold values in a 1 m wide fuchsite-ankerite altered zone around thin carbonate veinlets whereas a pyritic carbonate altered veinlet and wall -rock sample yielded 33 ppb Au and 4 ppm As. Other samples were below threshold values for both Au and As.

Two moss mat samples collected from different streams have high concentrations of gold, 7.24 and 7.34 ppm, but the relative importance of these concentrations within the region is not clear. One other moss-mat sample collected above the China Creek Road about 4 km to the west yielded 7.51 ppm Au. No other data were available for comparison from McLaughlin Ridge.

Interpretation and Conclusions

The claim area exposes upper levels of the Duck Lake Formation including oxide-facies iron formation lenses in siltstone and about 800 m of the Nitinat Formation. The McLaughlin Ridge Formation is not well exposed on the ridge within the claim but clearly exposed to the north in the Cop Creek basin and east near Henry Lake.

The rocks are broadly folded about NNW trending fold axes and fractured at intervals of about 500 m by vertical N-S fractures which have been mineralized by carbonate-rich fluids resulting in sericite-ankerite±pyrite alteration and minor quartz and carbonate veining. A NNW trending shear zone up to 12 m wide crosses the area and hosts minor carbonate-pyrite veining with possibly anomalous gold concentrations. Moss-mat samples collected in streams below the shear zone have high gold concentrations.

Summary of Exploration Work

The GAP claim has been explored by geological traverses through major outcrop areas and prospecting on talus slopes in conjunction with rock and moss mat geochemistry involving three man-days of field work. No mineralization was discovered through mapping nor did any of the rock samples analyzed show clearly anomalous concentrations of metallic or semi-metallic elements.

References

Watkins, J.J. 2001. Report on the mine potential and recommendations for work: HV Mineral Claim Group, Alberni Mining Division, NTS 92F/2. Assessment report #26743 submitted to the Geological Survey Branch 13 pp.

Shearer, J.T., 2001. Geological and Prospecting Report on the Bethea 1-4 Claims, tenure #382530 – 382533 (Villalta Area) Labour Day Lake – Nanaimo Lakes Area, Vancouver Island. GSB assessment report # 26778, 31 pp.

Massey, N.W.D. and Friday, S.J., 1988. Geology of the Alberni – Nanaimo Lakes Area, Vancouver Island (92F/1W, 92F/2E and pt. 92 F/7). In BC MEMPR, Geological Fieldwork Paper 1989-1 pp. 61-74.

Massey, N.W.D., Friday, S.J., Riddell, J.M., and Dumais, S.J., 1991. Geology of the Port Alberni – Nanaimo Lakes Area; BC Ministry of Energy, Mines and Petroleum Resources, Geoscience Map 1991-1.

APPENDICES

APPENDIX 1: Statement of Qualifications

I, Hardolph A. Wasteneys, resident at Strathcona Park Lodge, km 40 Highway 28, PO Box 2160, Campbell River, BC make the following statement of qualification:

1. 1. I hold degrees in geological sciences from Queen's University, Kingston: B.Sc. in Geological Engineering, 1979, Mineral Resources option; and Ph.D. in Geology 1990 based on research related to ore deposits.
2. I have 12 seasons of field experience in geological mapping and mineral exploration in various parts of Canada, Australia and Peru.
3. I have extensive experience in U-Pb Geochronology as a Research Associate at the Royal Ontario Museum completing diverse projects on ore deposits and high grade regional metamorphism and publishing several papers in refereed international journals between 1990 and 1999.
4. I developed and delivered numerous educational workshops for Toronto region public schools between 1996 and 1999.
5. My knowledge of the geology of the region and Sicker Group rocks was gained through an exploration contract for Westmin Resources Ltd in 1987 on part of the Debbie-Sicker project on McLaughlin Ridge east of Mineral Creek; employment as a mine geologist at Myra Falls in 2004 and 2005 and 21 days of field work on these and adjacent claims on McLaughlin Ridge for Bitterroot Resources during October and November 2005.
6. I hold no beneficial interest in the Ariel group of claims, nor in any other claims in the Port Alberni area.

Signed this 2nd day of April 2006.

Hardolph Wasteneys, Ph.D.

APPENDIX 2: Itemized cost statement

$29.00	13.0	analytical cost per sample 41 el. ICP-ES and AA23 for A	$377.00
$137.72	2.0	truck rental and fuel	$275.44
$400.00	3.0	professional fees	$1,200.00
$67.07	3.0	accommodation and food	$201.21
		TOTAL	**$2,053.65**

APPENDIX 3: Sample location, description and Au-As

SAMPLE#	Easting	North	Sample description	Au ppm	As ppm
B368658	380334E	5451900N	talus; jasper-hem-mag. With white qtz veins	0.006	15
B368659	380351E	5447490N	rusty-orange weathering py-carb altered rock with carb veins in vitreous dark green basaltic flow breccia	0.033	4
B368660	380360E	5447510N	orange weathering sheared mafic volcanic with sparse qtz veinlets	<0.005	5
B368661	380100E	5447250N	jasper-hem. Layers in shaley volcaniclastic	0.032	<2
B368662	379798E	5447200N	orange-weathering altered volc with qtz veins	<0.005	<2
B368665	379798E	5447773N	5m -wide orange-weaqthering carb altered shear zone in mafic volc.	0.015	5
B368666	379230E	5448600N	maroon jasperoidal tufaceous breccia 2m thick bed	<0.005	8
B368667	380700E	5448600N	orange weathering bleached altered fracture zone in N-S creek bed 20 cm wide	0.005	18
B368668	381230E	5448900N	qtz vein	<0.005	6
B368669	380360E	5447510N	Moss-mat in creek below B368660	7.350	39
B368670	379798E	5447770N	Moss-mat in creek below B368657	7.240	5
B368695	380750E	5448451N	fuchsitic-pyrite sericite altered wall rock around thin veins	<0.005	28
B368696	380750E	5448451N	clayey gouge adjacent to veining	<0.005	31

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To: **BITTERROOT RESOURCES LTD.**
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WEST VANCOUVER BC V7V 1A7

Finalized Date: 9-NOV-2005
Account: LJD

CERTIFICATE VA05095239

Project: Mineral Creek

P.O. No.:

This report is for 11 Rock samples submitted to our lab in Vancouver, BC, Canada on 3-NOV-2005.

The following have access to data associated with this certificate:

MIKE BECHERER	MICHAEL CARR	

SAMPLE PREPARATION

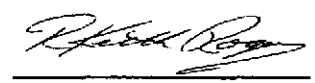
ALS CODE	DESCRIPTION
CRU-QC	Crushing QC Test
PUL-31	Pulverize split to 85% <75 um
SPL-21	Split sample - riffle splitter
CRU-31	Fine crushing - 70% <2mm
LOG-22	Sample login - Rcd w/o BarCode

ANALYTICAL PROCEDURES

ALS CODE	DESCRIPTION	INSTRUMENT
Au-AA23	Au 30g FA-AA finish	AAS
ME-ICP41	34 Element Aqua Regia ICP-AES	ICP-AES

To: **BITTERROOT RESOURCES LTD.**
ATTN: MIKE BECHERER
1698 CONSTITUTION RD
BLACK CREEK BC V9J 1G2

This is the Final Report and supersedes any preliminary report with this certificate number. Results apply to samples as submitted. All pages of this report have been checked and approved for release.

Signature: 

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Finalized Date: 9-NOV-2005
Account: LJD

Project: Mineral Creek

CERTIFICATE OF ANALYSIS VA05095239

Sample Description	Method	Au-AA23	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41
	Analyte	Au	Ag	Al	As	B	Ba	Be	Bi	Ca	Cd	Co	Cr	Cu	Fe	Ga
	Units	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	%	ppm
	LOR	0.005	0.2	0.01	2	10	10	0.5	2	0.01	0.5	1	1	1	0.01	10
B368658		0.006	<0.2	0.17	15	<10	50	<0.5	<2	0.03	0.6	4	66	16	14.9	<10
B368659		0.033	<0.2	1.77	4	10	50	<0.5	<2	10.30	<0.5	18	5	36	4.88	<10
B368660		<0.005	<0.2	2.18	5	<10	140	0.5	<2	6.64	<0.5	19	8	52	5.09	<10
B368661		0.032	<0.2	0.17	<2	<10	10	<0.5	<2	0.47	<0.5	2	21	5	3.97	<10
B368662		<0.005	<0.2	0.37	<2	<10	40	<0.5	<2	8.15	<0.5	9	47	17	2.81	<10
B368663		0.006	<0.2	0.39	<2	10	20	<0.5	<2	13.90	<0.5	30	22	32	7.53	<10
B368664		0.010	<0.2	0.61	<2	10	70	<0.5	<2	2.48	<0.5	15	18	62	3.19	<10
B368665		0.015	<0.2	1.78	5	<10	50	<0.5	<2	6.96	<0.5	15	5	42	4.39	<10
B368666		<0.005	<0.2	1.76	8	10	80	0.7	<2	3.32	<0.5	7	9	15	5.05	<10
B368667		0.005	0.3	0.68	18	10	150	0.5	<2	5.39	<0.5	12	4	51	3.79	<10
B368668		<0.005	<0.2	0.07	6	<10	10	<0.5	<2	0.06	<0.5	1	71	32	0.57	<10

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Finalized Date: 9-NOV-2005
Account: LJD

Project: Mineral Creek

CERTIFICATE OF ANALYSIS VA05095239

Sample Description	Method Analyte Units LOR	ME-ICP41 Hg ppm 1	ME-ICP41 K % 0.01	ME-ICP41 La ppm 10	ME-ICP41 Mg % 0.01	ME-ICP41 Mn ppm 5	ME-ICP41 Mo ppm 1	ME-ICP41 Na % 0.01	ME-ICP41 Ni ppm 1	ME-ICP41 P ppm 10	ME-ICP41 Pb ppm 2	ME-ICP41 S % 0.01	ME-ICP41 Sb ppm 2	ME-ICP41 Sc ppm 1	ME-ICP41 Sr ppm 1	ME-ICP41 Ti % 0.01
B368658		<1	0.04	<10	0.04	46	3	0.01	11	210	2	0.23	<2	1	3	0.02
B368659		1	0.26	10	1.12	1150	<1	0.04	10	1340	2	0.06	<2	6	130	<0.01
B368660		2	0.23	10	0.93	999	<1	0.04	10	1930	<2	0.02	<2	11	72	<0.01
B368661		<1	0.01	<10	0.08	281	<1	0.01	4	60	3	0.04	<2	<1	9	<0.01
B368662		<1	0.18	10	1.43	746	<1	0.02	43	1110	5	0.09	<2	8	152	<0.01
B368663		1	0.14	<10	4.31	1425	<1	0.02	40	90	7	0.07	18	12	317	<0.01
B368664		1	0.17	10	0.86	845	<1	0.03	12	930	2	0.40	<2	4	62	<0.01
B368665		2	0.14	20	0.92	861	<1	0.09	8	1940	3	0.02	<2	9	104	<0.01
B368666		1	0.30	10	0.67	339	<1	0.04	7	4030	7	0.01	<2	5	204	0.15
B368667		<1	0.26	10	0.13	943	<1	0.03	11	1620	3	0.02	4	7	29	<0.01
B368668		1	0.02	<10	0.01	102	<1	<0.01	3	70	<2	0.01	18	<1	4	<0.01

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CERTIFICATE OF ANALYSIS VA05095239

Sample Description	Method / Analyte / Units / LOR	ME-ICP41 Tl ppm 10	ME-ICP41 U ppm 10	ME-ICP41 V ppm 1	ME-ICP41 W ppm 10	ME-ICP41 Zn ppm 2
B368658		<10	<10	84	<10	4
B368659		<10	<10	43	<10	67
B368660		<10	<10	62	<10	69
B368661		<10	<10	8	<10	5
B368662		<10	<10	30	<10	33
B368663		<10	<10	101	<10	110
B368664		<10	<10	33	<10	38
B368665		<10	<10	64	<10	64
B368666		<10	<10	94	<10	60
B368667		<10	<10	36	<10	45
B368668		<10	<10	4	<10	7

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Finalized Date: 31-OCT-2005
Account: LJD

CERTIFICATE VA05092738

Project: Mineral Creek

P.O. No.:

This report is for 1 Soil sample submitted to our lab in Vancouver, BC, Canada on 27-OCT-2005.

The following have access to data associated with this certificate:

MIKE BECHERER	MICHAEL CARR	

SAMPLE PREPARATION

ALS CODE	DESCRIPTION
WEI-21	Received Sample Weight
LOG-22	Sample login - Rcd w/o BarCode
SCR-41	Screen to -180um and save both

ANALYTICAL PROCEDURES

ALS CODE	DESCRIPTION	INSTRUMENT
Au-AA23	Au 30g FA-AA finish	AAS
ME-ICP41	34 Element Aqua Regia ICP-AES	ICP-AES

To: **BITTERROOT RESOURCES LTD.**
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Signature: 

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Finalized Date: 31-OCT-2005
Account: LJD

Project: Mineral Creek

CERTIFICATE OF ANALYSIS VA05092738

Sample Description	Method / Analyte / Units / LOR	WEI-21 Recvd Wt. kg 0.02	ME-ICP41 Ag ppm 0.2	ME-ICP41 Al % 0.01	ME-ICP41 As ppm 2	ME-ICP41 B ppm 10	ME-ICP41 Ba ppm 10	ME-ICP41 Be ppm 0.5	ME-ICP41 Bi ppm 2	ME-ICP41 Ca % 0.01	ME-ICP41 Cd ppm 0.5	ME-ICP41 Co ppm 1	ME-ICP41 Cr ppm 1	ME-ICP41 Cu ppm 1	ME-ICP41 Fe % 0.01	ME-ICP41 Ga ppm 10
B368657		0.24	4.5	3.11	16	<10	260	0.5	<2	0.58	<0.5	29	98	127	4.76	10

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Sample Description	Method	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41
	Analyte	Hg	K	La	Mg	Mn	Mo	Na	Ni	P	Pb	S	Sb	Sc	Sr	Ti
	Units	ppm	%	ppm	%	ppm	ppm	%	ppm	ppm	ppm	%	ppm	ppm	ppm	%
	LOR	1	0.01	10	0.01	5	1	0.01	1	10	2	0.01	2	1	1	0.01
B368657		1	0.05	10	1.82	2280	1	0.01	53	810	8	0.01	<2	9	36	0.08

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To: **BITTERROOT RESOURCES LTD.**
101-1590 BELLEVUE AVE
WEST VANCOUVER BC V7V 1A7

Finalized Date: 31-OCT-2005
Account: LJD

Project: Mineral Creek

CERTIFICATE OF ANALYSIS VA05092738

Sample Description	Method / Analyte / Units / LOR	ME-ICP41 Tl ppm 10	ME-ICP41 U ppm 10	ME-ICP41 V ppm 1	ME-ICP41 W ppm 10	ME-ICP41 Zn ppm 2	Au-AA23 Au ppm 0.005
B368657		<10	<10	95	<10	75	7.51

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Finalized Date: 31-OCT-2005
Account: LJD

CERTIFICATE VA05092737

Project: Mineral Creek

P.O. No.:

This report is for 6 Rock samples submitted to our lab in Vancouver, BC, Canada on 27-OCT-2005.

The following have access to data associated with this certificate:

MIKE BECHERER	MICHAEL CARR	

SAMPLE PREPARATION

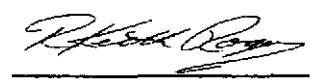
ALS CODE	DESCRIPTION
WEI-21	Received Sample Weight
PUL-31	Pulverize split to 85% <75 um
SPL-21	Split sample - riffle splitter
CRU-31	Fine crushing - 70% <2mm
LOG-22	Sample login - Rcd w/o BarCode

ANALYTICAL PROCEDURES

ALS CODE	DESCRIPTION	INSTRUMENT
Au-AA23	Au 30g FA-AA finish	AAS
ME-ICP41	34 Element Aqua Regia ICP-AES	ICP-AES

To: **BITTERROOT RESOURCES LTD.**
ATTN: MIKE BECHERER
1698 CONSTITUTION RD
BLACK CREEK BC V9J 1G2

This is the Final Report and supersedes any preliminary report with this certificate number. Results apply to samples as submitted. All pages of this report have been checked and approved for release.

Signature: 

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WEST VANCOUVER BC V7V 1A7

Finalized Date: 31-OCT-2005
Account: LJD

Project: Mineral Creek

CERTIFICATE OF ANALYSIS VA05092737

Sample Description	Method	WEI-21	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41
	Analyte	Recvd Wt.	Ag	Al	As	B	Ba	Be	Bi	Ca	Cd	Co	Cr	Cu	Fe	Ga
	Units	kg	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	%	ppm
	LOR	0.02	0.2	0.01	2	10	10	0.5	2	0.01	0.5	1	1	1	0.01	10
B368651		0.80	0.5	0.19	<2	<10	50	<0.5	<2	0.10	<0.5	4	169	281	3.29	<10
B368652		0.88	<0.2	2.65	9	<10	130	<0.5	<2	0.43	<0.5	18	76	192	4.69	10
B368653		0.74	<0.2	0.13	24	<10	130	<0.5	<2	0.01	<0.5	1	117	18	1.65	<10
B368654		0.74	0.3	0.20	16	<10	340	<0.5	<2	0.02	<0.5	1	86	14	0.60	<10
B368655		0.78	<0.2	0.09	25	<10	60	<0.5	<2	0.02	<0.5	2	94	15	1.63	<10
B368656		0.42	<0.2	2.49	<2	<10	40	<0.5	<2	1.67	<0.5	27	217	93	3.05	<10

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Finalized Date: 31-OCT-2005
Account: LJD

Project: Mineral Creek

CERTIFICATE OF ANALYSIS VA05092737

Sample Description	Method / Analyte / Units / LOR	ME-ICP41 Hg ppm 1	ME-ICP41 K % 0.01	ME-ICP41 La ppm 10	ME-ICP41 Mg % 0.01	ME-ICP41 Mn ppm 5	ME-ICP41 Mo ppm 1	ME-ICP41 Na % 0.01	ME-ICP41 Ni ppm 1	ME-ICP41 P ppm 10	ME-ICP41 Pb ppm 2	ME-ICP41 S % 0.01	ME-ICP41 Sb ppm 2	ME-ICP41 Sc ppm 1	ME-ICP41 Sr ppm 1	ME-ICP41 Ti % 0.01
B368651		1	0.03	<10	0.05	576	3	<0.01	7	130	5	0.08	<2	<1	6	<0.01
B368652		1	0.19	<10	1.84	1170	<1	0.03	22	430	3	0.01	<2	11	27	0.03
B368653		1	0.04	<10	0.01	101	5	<0.01	8	100	5	0.02	<2	1	1	<0.01
B368654		<1	0.08	<10	0.02	55	8	0.01	7	30	9	0.03	3	1	3	<0.01
B368655		<1	0.02	<10	0.02	148	3	<0.01	8	90	5	0.35	<2	<1	1	<0.01
B368656		<1	0.17	<10	2.17	635	<1	0.05	87	1040	3	0.11	<2	6	73	0.41

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Finalized Date: 31-OCT-2005
Account: LJD

Project: Mineral Creek

CERTIFICATE OF ANALYSIS VA05092737

Sample Description	Method / Analyte / Units / LOR	ME-ICP41 Tl ppm 10	ME-ICP41 U ppm 10	ME-ICP41 V ppm 1	ME-ICP41 W ppm 10	ME-ICP41 Zn ppm 2	Au-AA23 Au ppm 0.005
B368651		<10	<10	22	<10	40	0.040
B368652		<10	<10	88	<10	57	0.008
B368653		<10	<10	8	<10	35	<0.005
B368654		<10	<10	8	<10	6	0.015
B368655		<10	<10	4	<10	11	<0.005
B368656		<10	<10	89	<10	44	0.106

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To: **BITTERROOT RESOURCES LTD.**
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WEST VANCOUVER BC V7V 1A7

Finalized Date: 13-DEC-2005
Account: LJD

CERTIFICATE VA05106728

Project: Mineral Creek

P.O. No.:

This report is for 28 Rock samples submitted to our lab in Vancouver, BC, Canada on 5-DEC-2005.

The following have access to data associated with this certificate:

MIKE BECHERER	MICHAEL CARR	

SAMPLE PREPARATION

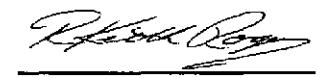
ALS CODE	DESCRIPTION
WEI-21	Received Sample Weight
LOG-22	Sample login - Rcd w/o BarCode
CRU-QC	Crushing QC Test
CRU-31	Fine crushing - 70% <2mm
SPL-21	Split sample - riffle splitter
PUL-31	Pulverize split to 85% <75 um

ANALYTICAL PROCEDURES

ALS CODE	DESCRIPTION	INSTRUMENT
ME-ICP41	34 Element Aqua Regia ICP-AES	ICP-AES
Au-AA23	Au 30g FA-AA finish	AAS

To: **BITTERROOT RESOURCES LTD.**
ATTN: MIKE BECHERER
1698 CONSTITUTION RD
BLACK CREEK BC V9J 1G2

This is the Final Report and supersedes any preliminary report with this certificate number. Results apply to samples as submitted. All pages of this report have been checked and approved for release.

Signature: 

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Finalized Date: 13-DEC-2005
Account: LJD

Project: Mineral Creek

CERTIFICATE OF ANALYSIS VA05106728

Sample Description	Method	WEI-21	Au-AA23	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41
	Analyte	Recvd Wt.	Au	Ag	Al	As	B	Ba	Be	Bi	Ca	Cd	Co	Cr	Cu	Fe
	Units	kg	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	%
	LOR	0.02	0.005	0.2	0.01	2	10	10	0.5	2	0.01	0.5	1	1	1	0.01
B368671		0.86	0.011	0.2	2.86	7	10	50	<0.5	<2	0.83	<0.5	21	8	38	4.68
B368672		0.48	0.007	<0.2	2.28	3	<10	50	<0.5	<2	1.18	<0.5	18	45	112	2.96
B368673		0.72	<0.005	<0.2	0.17	2	<10	20	<0.5	<2	0.09	<0.5	1	10	7	0.66
B368674		0.86	0.023	0.3	1.13	5	<10	60	<0.5	<2	6.20	<0.5	14	17	70	3.82
B368675		0.80	0.006	<0.2	4.17	9	10	80	<0.5	<2	6.27	<0.5	21	27	153	5.60
B368676		0.44	0.011	<0.2	3.01	31	20	20	0.8	<2	6.88	<0.5	31	157	40	5.19
B368677		1.38	0.316	<0.2	0.64	>10000	10	40	<0.5	<2	1.12	<0.5	17	34	42	3.40
B368678		0.76	0.015	<0.2	1.15	136	20	30	0.5	<2	8.01	<0.5	28	107	61	4.03
B368679		0.50	0.010	<0.2	2.10	114	<10	50	<0.5	<2	0.75	<0.5	15	60	75	2.87
B368680		1.02	0.007	<0.2	0.23	11	<10	20	<0.5	<2	0.18	<0.5	1	38	11	0.81
B368681		0.70	0.005	<0.2	1.22	10	<10	200	<0.5	<2	1.56	<0.5	5	6	174	1.02
B368682		0.86	0.005	<0.2	0.94	7	10	210	<0.5	<2	1.36	<0.5	2	9	33	1.70
B368683		0.82	0.007	<0.2	1.21	13	10	240	<0.5	<2	2.41	<0.5	4	3	132	1.74
B368684		0.68	0.007	<0.2	0.81	142	<10	30	<0.5	<2	4.62	<0.5	6	43	15	2.47
B368685		1.04	0.021	0.2	0.65	201	<10	20	<0.5	<2	0.14	<0.5	10	26	76	6.34
B368686		1.42	0.372	0.5	0.98	392	<10	40	<0.5	<2	0.45	<0.5	13	44	128	9.01
B368687		1.10	0.017	<0.2	0.68	17	10	120	<0.5	<2	5.09	<0.5	8	13	44	2.62
B368688		0.80	0.300	0.3	0.14	17	<10	10	<0.5	<2	0.24	<0.5	2	36	188	4.79
B368689		1.04	0.019	<0.2	0.60	11	<10	20	<0.5	<2	3.99	<0.5	4	23	18	19.8
B368690		0.86	0.005	<0.2	0.10	2	<10	10	<0.5	<2	0.27	<0.5	1	11	4	5.87
B368691		0.88	0.006	0.3	1.55	3	<10	130	<0.5	<2	0.60	<0.5	5	28	45	8.26
B368692		1.42	<0.005	<0.2	1.55	42	20	70	0.9	<2	5.40	<0.5	29	82	124	5.31
B368693		1.14	0.005	<0.2	2.40	50	10	210	<0.5	<2	11.65	<0.5	25	104	73	4.01
B368694		1.40	<0.005	0.2	2.54	2	10	70	<0.5	<2	8.31	<0.5	21	39	57	3.87
B368695		1.26	<0.005	<0.2	1.43	28	20	160	0.7	<2	4.67	<0.5	19	12	49	4.54
B368696		1.18	<0.005	<0.2	2.16	31	10	130	1.1	<2	0.46	<0.5	28	15	98	8.70
B368697		0.84	0.036	0.4	0.22	5	<10	40	<0.5	2	0.15	<0.5	2	5	141	3.46
B368698		0.32	0.141	2.9	0.30	1825	140	30	<0.5	<2	0.02	<0.5	3	15	65	2.61

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To: BITTERROOT RESOURCES LTD.
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WEST VANCOUVER BC V7V 1A7

Finalized Date: 13-DEC-2005
Account: LJD

Project: Mineral Creek

CERTIFICATE OF ANALYSIS VA05106728

Sample Description	Method / Analyte / Units / LOR	ME-ICP41 Ga ppm 10	ME-ICP41 Hg ppm 1	ME-ICP41 K % 0.01	ME-ICP41 La ppm 10	ME-ICP41 Mg % 0.01	ME-ICP41 Mn ppm 5	ME-ICP41 Mo ppm 1	ME-ICP41 Na % 0.01	ME-ICP41 Ni ppm 1	ME-ICP41 P ppm 10	ME-ICP41 Pb ppm 2	ME-ICP41 S % 0.01	ME-ICP41 Sb ppm 2	ME-ICP41 Sc ppm 1	ME-ICP41 Sr ppm 1
B368671		10	<1	0.16	<10	1.67	837	<1	0.02	10	1870	<2	<0.01	2	6	46
B368672		<10	<1	0.14	<10	1.42	490	<1	0.08	30	1080	3	<0.01	<2	6	59
B368673		<10	<1	0.03	<10	0.07	140	<1	<0.01	1	110	3	<0.01	<2	<1	5
B368674		<10	<1	0.13	<10	1.75	1035	<1	0.13	17	1080	47	3.76	3	8	140
B368675		10	<1	0.15	10	2.76	1560	1	0.09	22	1700	12	0.79	4	13	185
B368676		10	1	0.41	<10	2.60	923	3	0.02	152	1000	3	0.42	19	10	479
B368677		<10	1	0.27	<10	0.30	403	1	0.01	46	90	28	1.23	38	6	24
B368678		<10	1	0.40	<10	3.16	981	<1	0.02	92	550	6	0.14	12	17	246
B368679		<10	1	0.06	<10	1.80	608	<1	0.01	28	530	<2	<0.01	2	9	115
B368680		<10	<1	0.06	<10	0.10	201	<1	<0.01	4	30	3	<0.01	2	2	6
B368681		<10	1	0.63	10	0.23	285	<1	0.05	2	680	<2	0.48	<2	1	109
B368682		<10	1	0.49	20	0.28	461	<1	0.06	1	680	2	0.23	7	2	37
B368683		<10	1	0.62	20	0.54	458	1	0.06	1	760	4	0.82	27	1	76
B368684		<10	<1	0.17	<10	1.78	943	125	0.01	23	220	5	0.06	2	5	209
B368685		<10	1	0.06	<10	0.33	311	2	<0.01	82	290	<2	3.08	5	1	10
B368686		10	<1	0.01	<10	0.52	261	6	<0.01	140	1230	7	4.37	5	2	10
B368687		<10	<1	0.38	<10	1.37	731	<1	0.01	2	400	5	0.21	9	4	102
B368688		<10	1	<0.01	<10	0.06	169	1	<0.01	6	110	<2	1.72	3	<1	4
B368689		<10	<1	0.08	<10	0.46	378	<1	0.02	13	190	5	0.06	<2	1	45
B368690		<10	<1	0.02	<10	0.05	92	<1	<0.01	5	250	<2	<0.01	2	<1	8
B368691		10	<1	0.04	10	1.34	267	<1	0.01	11	200	6	0.02	2	3	11
B368692		<10	<1	0.61	<10	1.76	856	<1	0.03	66	1150	5	0.13	14	28	159
B368693		<10	1	0.37	<10	2.14	1525	<1	0.02	111	460	5	1.08	15	11	1160
B368694		10	<1	0.39	<10	2.87	1000	<1	0.02	54	380	4	0.06	2	10	223
B368695		<10	<1	0.52	10	1.59	834	<1	0.06	14	1550	3	0.12	6	9	165
B368696		<10	1	0.44	10	0.39	2150	1	0.04	17	1620	2	0.01	14	12	16
B368697		<10	<1	0.05	<10	0.08	306	2	<0.01	3	120	2	0.14	<2	<1	9
B368698		<10	1	0.36	<10	0.02	31	3	0.01	2	50	25	2.13	5	<1	17

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WEST VANCOUVER BC V7V 1A7

Finalized Date: 13-DEC-2005
Account: LJD

Project: Mineral Creek

CERTIFICATE OF ANALYSIS VA05106728

Sample Description	Method / Analyte / Units / LOR	ME-ICP41 Ti % 0.01	ME-ICP41 Tl ppm 10	ME-ICP41 U ppm 10	ME-ICP41 V ppm 1	ME-ICP41 W ppm 10	ME-ICP41 Zn ppm 2
B368671		0.21	<10	<10	116	<10	71
B368672		0.32	<10	<10	98	<10	41
B368673		0.01	<10	<10	6	<10	4
B368674		0.01	<10	<10	51	<10	53
B368675		<0.01	<10	<10	130	<10	112
B368676		<0.01	<10	<10	103	<10	81
B368677		<0.01	<10	<10	31	<10	147
B368678		<0.01	<10	<10	72	<10	53
B368679		0.17	<10	<10	82	<10	39
B368680		<0.01	<10	<10	9	<10	3
B368681		0.10	<10	<10	12	<10	10
B368682		<0.01	<10	<10	7	<10	16
B368683		<0.01	<10	<10	8	<10	28
B368684		<0.01	<10	<10	28	<10	25
B368685		0.01	<10	<10	48	<10	16
B368686		0.03	<10	<10	93	<10	36
B368687		<0.01	<10	<10	26	<10	38
B368688		<0.01	<10	<10	15	<10	5
B368689		0.01	<10	<10	26	<10	15
B368690		<0.01	<10	<10	29	<10	5
B368691		0.03	<10	<10	72	<10	57
B368692		<0.01	<10	<10	86	<10	61
B368693		<0.01	<10	<10	71	<10	37
B368694		<0.01	<10	<10	72	<10	29
B368695		<0.01	<10	<10	73	<10	53
B368696		<0.01	<10	<10	100	<10	97
B368697		<0.01	<10	<10	22	<10	20
B368698		0.01	<10	<10	4	<10	2

Legend

TMW	Mt Washington intrusive suite; qtz. diorite sills and stocks
KNPB	Nanaimo Gp sediments; Parsons Bay Fm. black argillite, siltstone and shale
EMJIgd	Island Plutonic Suite; bi-hb granodiorite
uTrVK	Vancouver Gp; Karmutsen Fm; pillow basalt and breccia
PMHgb	Mount Hall gabbro
PBL	Buttle Lake Gp. Limestone
uDSiMR	Sicker Gp. McLaughlin Ridge Fm.well bedded and graded volcaniclastic sediments and laminated cherty siltstone
muDSiN	Sicker Gp.; Nitinat Fm: pyrox.- phyric basaltic flows, agglomerates, breccias, crystal tuffs and massive volcaniclastics
mDSiDL	Sicker Gp; Duck Lake Fm; chert, jasper and cherty tuff; maroon and green pillowed basalts and breccias

Symbols

- foliation or cleavage; foliation with mineral lineation
- kink banded foliation; "S"; "Z" folded
- mineral lineation
- shear zone
- bedding plane in sedimentary rocks and volcaniclastics
- pillowed flows
- Fold axis: syncline; anticline; minor folds
- joint or vein: vertical; inclined
- dyke
- Fault: mapped; approx.; inferred
- geological contact: observed; inferred
- sample location and geochem ref. number: rock chip; moss mat

Geology and Geochemistry of the Gap claim
McLaughlin Ridge, Alberni Mining Division, BC

Bitterroot Resources Ltd.

Geology by Hardolph Wasteneys Ph.D.
November, 2005

Fig. 3