## ALDER CREEK PROPERTY

## Assessment Report <br> on

Geological Reconnaissance and Rock Geochemical Sampling,

NTS 103P/005
$55^{\circ} 02^{\prime} \mathrm{N}$ latitude $129^{\circ} 03^{\prime}$ W longitude

Skeena Mining Division British Columbia

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## Table of Contents

Section Page
SUMMARY ..... 4
INTRODUCTION AND TERMS OF REFERNCE ..... 5
PROPERTY DESCRIPTION AND LOCATION ..... 5
ACCESS, CLIMATE AND PHYSIOGRAPHY ..... 5
HISTORY ..... 6
GEOLOGICAL SETTING ..... 6
Regional Geology ..... 6
Property Geology ..... 6
Mineralization ..... 6
SAMPLING METHOD AND APPROACH ..... 6
SAMPLE PREPARATION AND ANALYSIS ..... 7
RESULTS AND INTERPRETATIONS ..... 8
CONCLUSIONS AND RECOMMENDATIONS ..... 8
EXPENDITURES ..... 9
CERTIFICATE OF AUTHOR ..... 10

## List of Tables

Table 1. Alder Creek Property Mineral Claims

## List of Figures

Figure 1. Location Map
Figure 2. Claim Map
Figure 3a. Rock Sample Locations (Alder Property)
Figure 3b. Rock Sample Locations (Alder South)

## Appendices

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\begin{array}{ll}
\text { Appendix A } & \text { Rock Sample Locations and Descriptions } \\
\text { Appendix B } & \text { Rock Geochemistry Assay Results }
\end{array}
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## SUMMARY

Geological traversing and rock geochemical sampling were performed on the Alder Creek claims in May and June 2006.

The Alder property is located in northwestern British Columbia, approximately 60 km north of Terrace, British Columbia. The property is composed of three claims, Alder, Alder 2 and Alder 3 totaling 33 cell units and covering 611 hectares owned by BCM Resources Corp. One of the claims (Alder) is optioned from N C Carter.

Historical work on the property is quite limited, with some hand trenching reportedly being carried out in the 1970s. No work is listed in MINFILE. The claims cover a prominent gossanous zone around the contact between a granodiorite porphyry intrusive and hornfelsed metasediments of the Bowser Assemblage. Disseminated pyrite is widely distributed in both rock types, along with minor molybdenite and chalcopyrite in quartz veins and on fractures. The granodiorite porphyry, while not dated, appears similar to the Alice Arm Intrusions which host significant molybdenite occurrences elsewhere in this region.

The objective of the 2006 fieldwork was to assess the geological setting and mineralization in the light of the much improved regional geological and metallogenic knowledge since the claims were last worked 30 years ago, and recommend follow-up work if warranted.

Based on the results of the rock geochemical sampling, and the difficult terrain, it is recommended that work be focused on other higher priority properties.

## INTRODUCTION AND TERMS OF REFERENCE

This report describes geological traversing and rock geochemical sampling carried out on the Alder Creek claims. The Alder Creek property is located in northwestern British Columbia. Work was carried out on behalf of BCM Resources Corp. (BCM) of Vancouver, British Columbia.

Mr. Dale McClanaghan, President of BCM, contracted the writer to perform the work with the assistance of local field staff. Fieldwork was carried out between May 4 and 8, with a follow-up visit on June 20, 2006.

## PROPERTY DESCRIPTION AND LOCATION

The Alder Creek property is located approximately 60 kilometres north of Terrace northwestern British Columbia (Figure 1). The project area is centered at approximately $55^{\circ} 02^{\prime} \mathrm{N}$ latitude and $129^{\circ} 03^{\prime} \mathrm{W}$ longitude.

The Alder Creek property (Figure 2) consists of 3 claims totaling 33 claim units as listed in Table 1 with an area of approximately 611 hectares. These claims were electronically staked under MTO (Mineral Titles Online) in June 2005. The Alder claim \#501281 is covered by an option agreement with N C Carter.

Table 1. Alder Creek Property Mineral Claims

| Claim Name | Tenure \# | Units | Owner |
| :--- | :--- | :--- | :--- |
| Alder | 501281 | 4 | BCM Resources Corp. |
| Alder 2 | 514216 | 25 | BCM Resources Corp. |
| Alder 3 | 525424 | 4 | BCM Resources Corp. |

## ACCESS, CLIMATE, AND PHYSIOGRAPHY

The Alder Creek property is situated immediately west of Lava Lake, 60 km north of Terrace, BC (Figure 1). Access from Terrace is via the Nass Highway, thence via logging roads which branch off the highway approx. 3 km south of Lava Lake and extend to within 0.5 km of the property.

The property is located in the Coast Mountains in rugged, forested terrain. Elevations range from 300 to 700 metres above sea level. Outcrop exposure is limited due to forest and undergrowth cover except on steep cliff sections. Traversing is both difficult and dangerous.

The climate is severe, with short but hot, dry summers and cold, moist winters.
Figl - Alder Craik Proparty Locelion


Fig. 2 - Alder Claims


[^0]$\square$ BCGS Grid
Contours (1:250K)
$\sim$ Contour-Index
Contour - Intermediate
Areaof Exclusion
Areaof Indefinite Contours
Transportation - Points (TRIM)
© Helipad
Transportation - Lines (TRIM)
Alrfield
Alirport
Airstrip
Airport:Abandoned
Ferry Route
Rnar (firaval IIndivirierl) - 1 I ane

This map is a user generated static output from an Internet mapping site and is for general reference only. Data layers that appear on this map may or may not be accurate, current, or otherwise reliable. THIS MAP IS NOT TO BE USED FOR NAVIGATION.

## HISTORY

It is reported (N.C.Carter pers. comm.) that limited hand trenching was carried out over the main prospect in the early 1970s. Specific details and results are unknown, and no reports are filed on MINFILE. No evidence of previous work was seen during BCM's work on the property.

## GEOLOGICAL SETTING

## Regional Geology

Regionally, the area is underlain by Mid Jurassic to Lower Cretaceous clastic sediments of the Bowser basin. The Bowser basin is flanked to the southwest by granitic intrusions of the early Tertiary Coast Plutonic Complex.

## Property Geology

Locally, the property is underlain by hornfelsed siltstones of the Bowser Basin mainly in the northeast, intruded by a granodiorite porphyry body to the southwest. Most of the sampling was in the contact zone on the central eastern portion of claim \#501281, where both rock types occur. Due to the lack of continuous outcrop, the structural relationships between the two units are unclear. The siltstones generally are hornfelsed to a greater or lesser extent.

## Mineralization

Disseminations and fracture coatings of fine-grained pyrite are widespread, with occasional molybdenite and chalcopyrite present in quartz veins and veinlets in both of the main rock types, although veins with visible Cu and/or Mo mineralization are largely confined to the granodiorite. All veins seen were narrow, and mineralization relatively weak.

## SAMPLING METHOD AND APPROACH

Fieldwork was carried out by Margaret Venable PhD and a local field assistant over three days between May 4 to 8, with a follow-up visit on June 20, 2006. Previous work had identified a gossanous zone at the contact between a granodiorite porphyry intrusive and hornfelsed metasediments with widespread pyrite and minor molybdenite and chalcopyrite. This area was the focus of the current work.

Twenty-four (24) rock or float samples numbered labeled AL-101 to AL-124 were collected from the area. Fifteen of the samples are from within the property, with an additional nine (AL- 105 to 112 inclusive) from nearby on the access road to the south.

Sample locations are listed in Appendix A and shown on Figures 3a and 3b. At each location, approximately 2 kg of representative bedrock/float was collected. All samples were shipped to ALS-Chemex Analytical Laboratories in North Vancouver for analysis.

## SAMPLE PREPARATION AND ANALYSIS

All samples were analysed at ALS-Chemex Laboratories for gold by AAS (Method AA23) and 34 element ICP (Method ICP-41). Sample descriptions and UTM locations are listed in Appendix A and analytical results are listed in Appendix B. Sample locations shown on Figures 3a and 3b.

Fig 3a - Alder Creek Samples


Fig 36-Alder Creek South Samples


## RESULTS AND INTERPRETATION

The first round of rock geochemical sampling carried out in May 2006 returned one significant result - sample AL-113 returned 418 ppm Mo. Eight additional samples (AL116 to 123) from this area, which is roughly centered on the triple junction of the three claims, were collected during follow-up sampling in June. Three of these samples returned greater than 100 ppm Mo, with a peak value of 147 ppm Mo. While confirming the presence of Mo in the alteration zone, most of the samples were select samples of mineralized rock and/or veins.

The maximum copper value from the May sampling was 1020 ppm Cu , also from sample AL-113. The follow-up sampling returned copper values up to 1060 ppm .

## CONCLUSIONS AND RECOMMENDATIONS

The results of reconnaissance geological traversing and rock geochemical sampling confirm the presence of anomalous copper and molybdenum in the gossanous alteration zone, but the overall tenor is low. This, together with the rugged topography, suggests that further work is not warranted at this time.

## EXPENDITURES

Contract Geologist ..... 2,100.00
Lodging, truck rental, transport ..... 867.00
Field Assistant ..... 700.00
Assaying ..... 526.01
TOTAL ..... \$ 4,193.01

## CERTIFICATE OF AUTHOR

I, Margaret Venable, PhD, do hereby certify that:

1. I am currently employed as a consulting geologist by:

BCM Resources Corp.
1010-1030 West Georgia St.
Vancouver, BC
V6E 2 Y3
2. I graduated with an M.Sc, degree from the Minex program at Queen's University in Kingston, Ontario in 1988, and obtained a PhD degree in Economic geology from the University of Arizona, Tucson, in 1994.
3. I am a member of the American Association of Professional Geologists (AIPG), the Society of Economic Geologists (SEG) and the GSA (Geological Society of America).
4. I have worked as an exploration geologist for approximately 14 years in total.
5. I was on site at the Alder Creek Property for three days between May 4 and May 8, 2006, and a second time on June 20, 2006. During this time I personally performed reconnaissance geological mapping and rock geochemical sampling.

Dated this $\qquad$ day of January 2007.


## APPENDIX A

## ROCK SAMPLE LOCATIONS AND DESCRIPTIONS

| 10 | Sample_NıEasting. |  | Northing | Elevation | width_(m) orient | type |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | $1 \mathrm{AL}-101$ | 498369 | 6099798 | 418 |  | grab-SC |
|  | $2 \mathrm{AL}-102$ | 498360 | 6099825 | 462 | 2.5 E-W | chip channel |
|  | $3 \mathrm{AL}-103$ | 498480 | 6099900 | 515 |  | grab - SCiFloat |
|  | $4 \mathrm{AL}-104$ | 498550 | 6099945 | 560 | 1.2 E-W | chip channel |
|  | $5 \mathrm{AL}-105$ | 498186 | 6094190 | 285 | $1 \mathrm{~N}-\mathrm{S}$ | chip channel |
|  | 6 AL-106 | 498158 | 6094253 | 280 | 1.6 NNW | chip channel |
|  | $7 \mathrm{AL}-107$ | 498135 | 6094455 | 280 | 1.8 NE | chip channel |
|  | 8 AL-108 | 498255 | 6094657 | 280 | 1.3 N-S | chip channel |
|  | 9 AL-109 | 498336 | 6094937 | 309 | 1.8 NNE | chip channel |
|  | $10 \mathrm{AL}-110$ | 498960 | 6098248 | 305 | $2.7 \mathrm{~N}-\mathrm{S}$ | chip channel |
|  | 11 AL-111 | 498717 | 6098500 | 306 | 2.3 N-S | chip channel |
|  | $12 \mathrm{AL}-112$ | 498703 | 6098543 | 309 | 2 NNW | chip channel |
|  | $13 \mathrm{MC}-201$ | 516436 | 6046949 | 198 |  | recce chip |
|  | $14 \mathrm{MC}-202$ | 516367 | 6047591 | 431 |  | recce chip |
|  | $15 \mathrm{MC}-203$ | 516269 | 6047502 | 433 |  | recce chip |
|  | $16 \mathrm{MC}-204$ | 515952 | 6047686 | 466 |  | recce chip |
|  | $17 \mathrm{MC}-205$ | 515631 | 6047914 | 522 |  | recce chip |
|  | $18 \mathrm{MC}-206$ | 515976 | 6047655 | 468 |  | float |
|  | 19 AL-113 | 498033 | 6099766 | 400 |  | grab-SC/Float |
|  | 20 AL-114 | 497925 | 6099500 | 333 |  | grab-SC/Float |
|  | 21 AL-115 | 497827 | 6099393 | 270 |  | grab-SC/Float |

## Description

pyr. porph, intrusive, gossan, fe-stained seds
fe-stained porph. int,minor qtz vns, OC/SC
porph. int., altfleached with Fe-stain, minor qtz vns, some dissem pyr, mo?
OC - fe stain and qtz vns in black siltstone
68/90 shear with fe-ox, pyr, qtz vns in granite
60/90 zone Fe-ox, pyr arg alt, minor qZ vns
fe-stained granit, $285 / 70$ veinlets, fractures
fe-stained granite, minor qlz vns, plus 4 cm 85/80 qtz vn with pyr
$60 / 80 \mathrm{qtz}$ veinlets and fe-ox (pyr) in granite
qtz veinlets, sulphides in black siltstone near $210 / 60$ contact with felsic dyke to north
$220 / 60$ shear in black siltstone, minor veinlets; dissem pyrhotite
$250 / 60$ shear in black siltstone with dissem pyr
semi-select of quartz veins and pyr. porphyry dyke
select sample of qte veins, pyr. volc or dyke
select sample of qtz veins, pyr. chl, volc? Host
select sample of qiz veins, pyr. chl. volc? Host
qiz veinlets in andesite, chl, no obvious sulphides
sample of vein from angular fragile boulder from nearby, chlorite-quartz-pyrite vein in chloritized volcanic hos (marked 105 in field) select - matenal from 100 m upstream, quzpyr veins
marked 106 in fieid) select - veinlets at siltstone-dyke contact area
(marked 107 in field) select - material from upstream, qtz-pyrite veins

## Sampies

| Sample_N Easting |  |  |  |  |  |  | Northing | Elevation | width_(m) orientation type |
| :--- | ---: | :---: | :---: | :---: | :--- | :---: | :---: | :---: | :---: |
| AL116 | 498077 | 6099925 | 520 | 1.5 SE | chip channel |  |  |  |  |
| AL117 | 498050 | 6099900 | 494 |  | chip-select |  |  |  |  |
| AL118 | 498066 | 6099935 | 518 | 2.5 SE | chip channel |  |  |  |  |
| AL119 | 498117 | 6099914 | 525 | 1.5 SE | chip channel |  |  |  |  |
| AL120 | 498085 | 6099871 | 490 | $1 \mathrm{E}-\mathrm{W}$ | chip |  |  |  |  |
| AL121 | 498035 | 6099830 | 445 | $1 \mathrm{~N}-\mathrm{S}$ | chip channel |  |  |  |  |
| AL122 | 498026 | 6099789 | 430 |  | grab-select |  |  |  |  |
| AL123 | 498028 | 6099788 | 430 | $1.5 \mathrm{~N}-\mathrm{S}$ | chip channel |  |  |  |  |
| AL124 | 498898 | 6094300 | 240 |  | chip |  |  |  |  |

## Description

highly fractured 240/90 quart vein, fe-ox from veins and alteration zones, WSW, in OC at falls quartz veins, fe-ox - highly fractured
pyrite in black siltstone
170/80 quartz vein zone, fe-ox
minor stockwork qtz veinlets in black siltstone, fe-ox
rregular zone of altered rock, ca-veins, fe-ox, pyr in dyke near contact 250/70 ca-vns and fe-ox in sheared black sitstone near contact with dyke 250/70 small dyke? 290/60 shearing, fe-ox stained granite

## APPENDIX B

## ROCK GEOCHEMISTRY ASSAY RESULTS

## masex 1571 Fnises <br>  <br> 




PRDGEC: :-



[^0]:    $\square$ Indian Reserves
    $\square$ National Parks
    $\square$ Parks
    Mineral Titles Grid (LRDW) Mineral Tenures (Mineral - LRDW)

    ## $\square$ Mineral Claim

    $\square$ Mineral Lease
    Reserves (Mineral - LRDW Sites)
    $\square$ Placer Claim Designation
    $\square$ Placer Lease Designation
    No Staking Reserve
    Conditional Reserve
    $\square$ Release Required Rescr
    $\square$ Surface Restriction
    $\square$ Recreat
    $\square$ Mining Division (Mineral - LRDW)

    - Mineral Titles Grid (MTO)

