

**PROSPECTING and GEOLOGICAL ASSESSEMENT REPORT  
on the  
BIRKENHEAD GOLD and BIRKENHEAD SKARN  
PROPERTIES**

**(Tenures 575814, 566777, 589840, 564535 & 564536)  
PEMBERTON-DARCY AREA  
BIRKENHEAD LAKE, BRITISH COLUMBIA  
Latitude 50°29'53"N/Longitude 122°44'30"W  
N.T.S. 92J/7E (92J.047+057)  
LILLOOET MINING DIVISION**

**BC Geological Survey  
Assessment Report  
30290**

Owned by

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November 1, 2008

Fieldwork completed between August 15, 2007 and September 20, 2008

**RECEIVED**

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Gold Commissioner's Office  
VANCOUVER, B.C.

GEOLOGICAL SURVEY BRANCH  
ASSESSMENT REPORT  
30290

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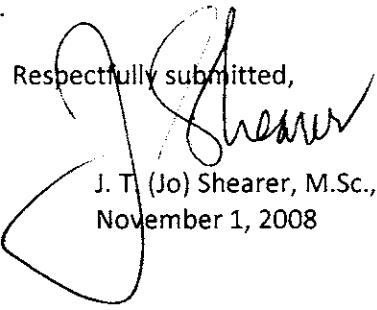
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## SUMMARY

- 1) The Birkenhead Properties are located northeast of Pemberton near the junction of Birkenhead River and Texas (or Tenas) Creek. Access is via the paved road to Darcy for 16.5 km, turning at Bramson Siding on B.C. Rail and then 7.3 km along the Birkenhead Forest Service Road.
- 2) The Birkenhead Gold Property consists of the 3 claims (Tenure 566777, 575814 and 585840) and Birkenhead Skarn Property consists of 2 claims (Tenures 564535 & 564536).
- 3) The area is underlain by volcanic rocks of the Upper Triassic Cadwallader Group consisting mainly of andesitic lapilli tuff, lithic tuff, interbedded andesite flows, argillite and rhyolite. Cadwallader Group rocks have been intruded by granodiorite of the Jurassic to Tertiary Coast Plutonic complex, which has produced variable thickness of skarn development.
- 4) Mineralization consists of massive to semi-massive zones of pyrite and pyrrhotite within the skarn zones and argillically, prophylically altered intrusive rocks and quartz veins.
- 5) The Birkenhead Gold showings were discovered by 1987 by P. Newman. Subsequent hand trenching uncovered three separately occurring veins, the largest of which has a maximum width of about 2 metres and an indeterminate length. All veins have an apparent lensy character, but due to heavy talus and scree they have only been partially exposed.
- 6) The geological environment can be defined as a complex intrusive-skarn zone developed along the contact of the Spetch Creek Intrusive and Triassic Cadwallader Group Volcanics and sedimentary rocks. The primary skarn is compositionally zoned from zoisite-diopside-quartz skarn, through quartz-minor epidote skarn, siliceous quartz skarn and dark green chlorite-pyrite-pyrrhotite skarn. Brown garnet occurs irregularly in the zoisite and epidote zones. Significant amounts of disseminated pyrite and pyrrhotite are relatively constant throughout the area tested and can form semi massive to massive sections associated with the chlorite skarn and epidote skarn.
- 7) Zoning of the skarn assemblages appears to reflect the original composition of the host rocks coupled with the chemical (metamorphic and metasomatic) control of the intrusive body. Similar patterns elsewhere are ascribed to the random overlay of "oxide availabilities" in the diffusing fluids during dynamic metamorphism. Only one phase will be stable at the edge of a zone depending on pressure, temperature and coincidental overlap of oxide availabilities. At the overlap point the solubility product of a particular phase (mineral) is exceeded and precipitation occurs. Original carbonate composition often provides the minor irregularities on the superimposed metasomatic processes.
- 8) The Birkenhead Properties are along or near the northern continuation of the regionally important Harrison Lake Fault Zone.
- 9) Sampling from previous trenches on the Birkenhead Gold returned anomalous gold values and a grab sample value of 0.443 oz/t (15.2 g/tonne gold). The grab sample was of brecciated quartz with goethite cement in Trench 2 main vein. A float sample of rusty pyritic quartz vein from below main quartz vein area assayed 1.95 oz/ton gold.

10) In 2008, sampling at the Birkenhead Gold showing of milky white quartz containing pyrite and chalcopyrite assayed 1.5 g/tonne gold (sample BKG-012).

Respectfully submitted,



J. T. (Jo) Shearer, M.Sc., P.Geo.  
November 1, 2008

## INTRODUCTION

This report was commissioned by Homegold Resources Ltd. to summarize the 2007 and 2008 prospecting programs and outline a future work program for the Birkenhead Properties.

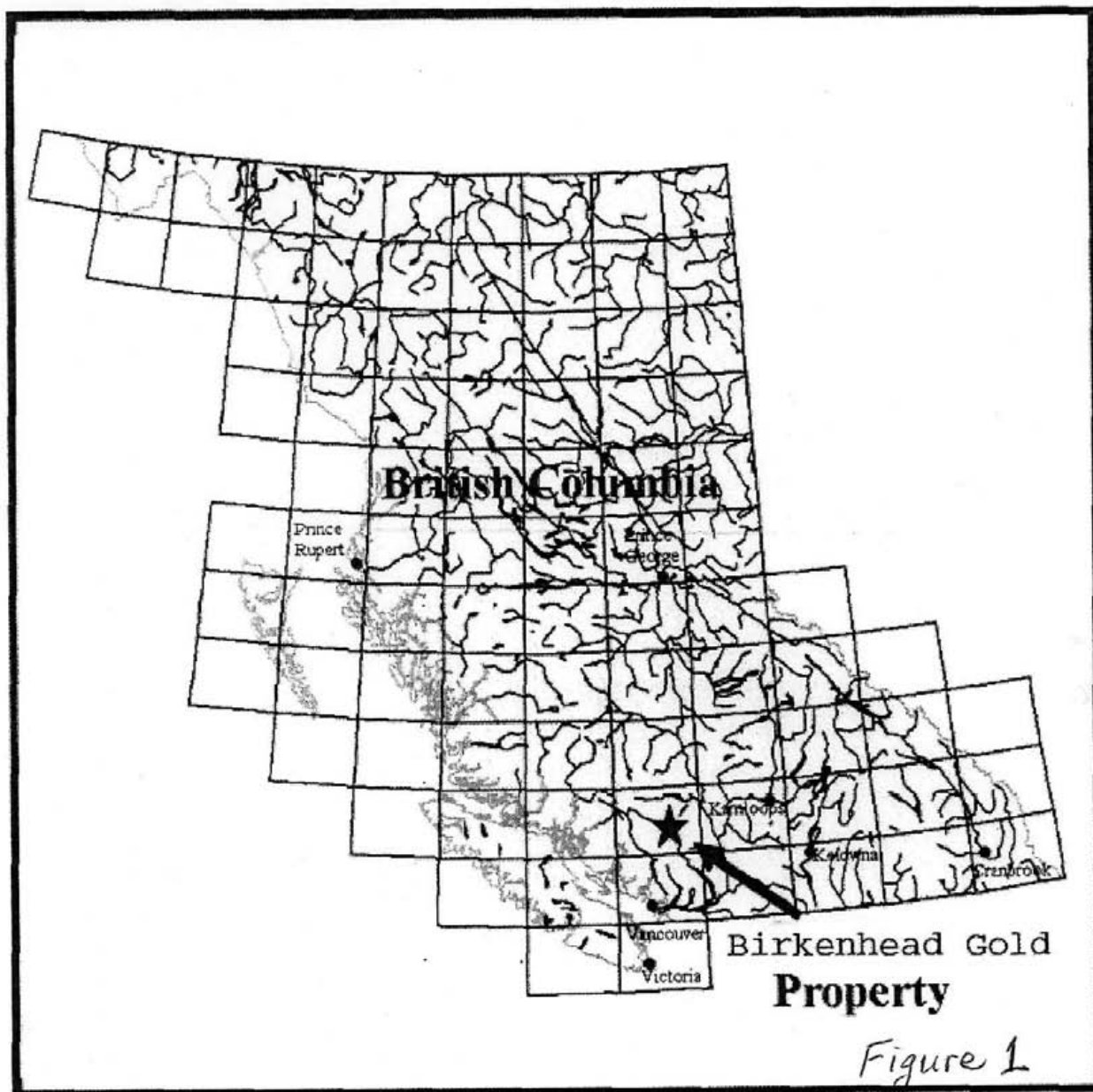
Mineral exploration began in the Tenquille Lake area in 1916, during the construction of the Pacific Great Eastern Railway. Between 1923 and 1937, work was conducted on the Gold King (092JNE054), Dora May claims and the Li-Li-Kel (092JNE052) properties. Zinc-rich skarn, and shear-hosted vein type mineralization on the Gold King and Dora May were explored by several opencuts and diamond drilling. Little other work was conducted until the 1960's when Phelps Dodge Corp. carried out exploration work in the area. Various other companies have conducted limited exploration throughout the surrounding area since. However, in 1990, Teck Corp. staked the Apollo, Sun and God claims of the Sun God property covering the Gin showing and conducted a comprehensive multi-year program for volcanogenic massive sulfides and skarn deposits.

Regionally, the property lies in a northwest trending belt of Upper Triassic Cadwallader Group rocks, which represent a northwest trending, northeast dipping, calcalkaline, island arc, volcano-sedimentary assemblage intruded by granodiorite to quartz diorite of the Jurassic to Cretaceous Coast Plutonic Complex. The Cadwallader Group consists of andesitic breccias, tuffs, rhyolites, rhyolitic tuffs and agglomerates with phyllite, sandstone, minor limestone and conglomerates. The Harrison Lake fault is postulated to pass very close to both properties immediately to the southwest.

Previous work on the Birkenhead Skarn area refers to the drilled zone as one of the Bank showings. The majority of outcrops in the vicinity of the Tex showing consist of medium to dark grey lithic tuff with minor andesitic flows. Minor limestone was found near the site of some old workings. The dominant fabric strikes north and dips 58 to 83 degrees to the east. The major fracture pattern strikes east and dips 58 to 75 degrees south. A 5 centimetre wide shear was located in one lithic tuff outcrop. Varying degrees of silicification is evident in most outcrops. Weak to moderate Argillic alteration is also present. Chloritization is strong at the old workings.

Six rock samples were taken in 1994; (see Terry, Assessment Report 23595) two from the old workings and four from the outcrop to the southeast. Sample Bank 2 from the old working yielded 0.13 % copper, 0.15% zinc and 1.4 grams per tonne silver (Assessment Report 23595). Sample Bank 1, also from the old workings, yielded 3.3 grams per tonne silver and 0.84 gram per tonne gold.

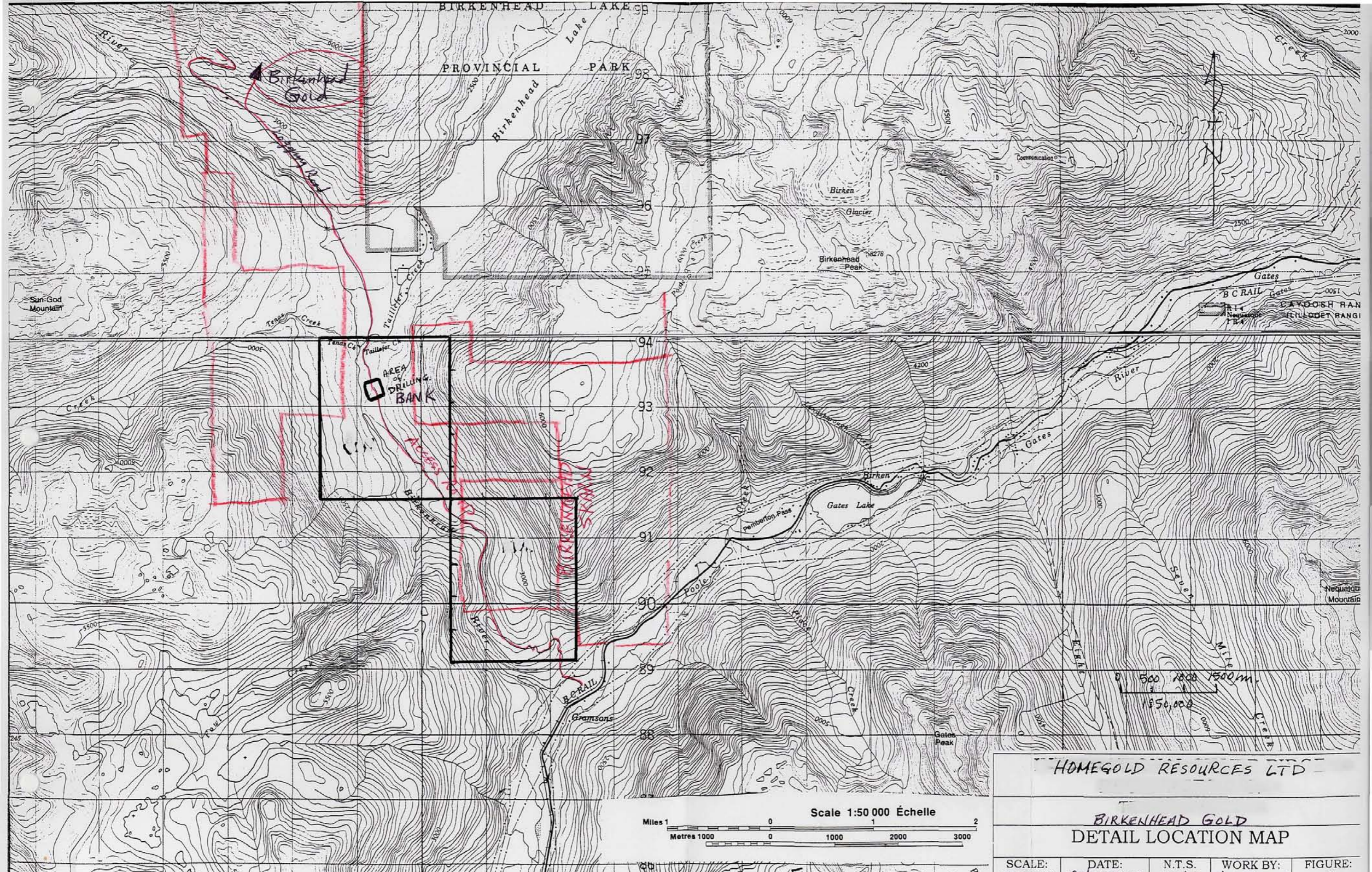
The 2008 program consisted of prospecting on both properties (Birkenhead Gold and Birkenhead Skarn), assay of some selected samples and opening access routes.



## LOCATION and ACCESS and FIELD PROCEDURES

The Birkenhead Properties are situated within the upper Birkenhead River Valley with elevations ranging between 580 and 1520m.

Most of the claims are covered by a second growth selectively logged forest, some of which has been thinned. Some parts of the claim have been logged relatively recently.



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**BIRKENHEAD GOLD  
DETAIL LOCATION MAP**

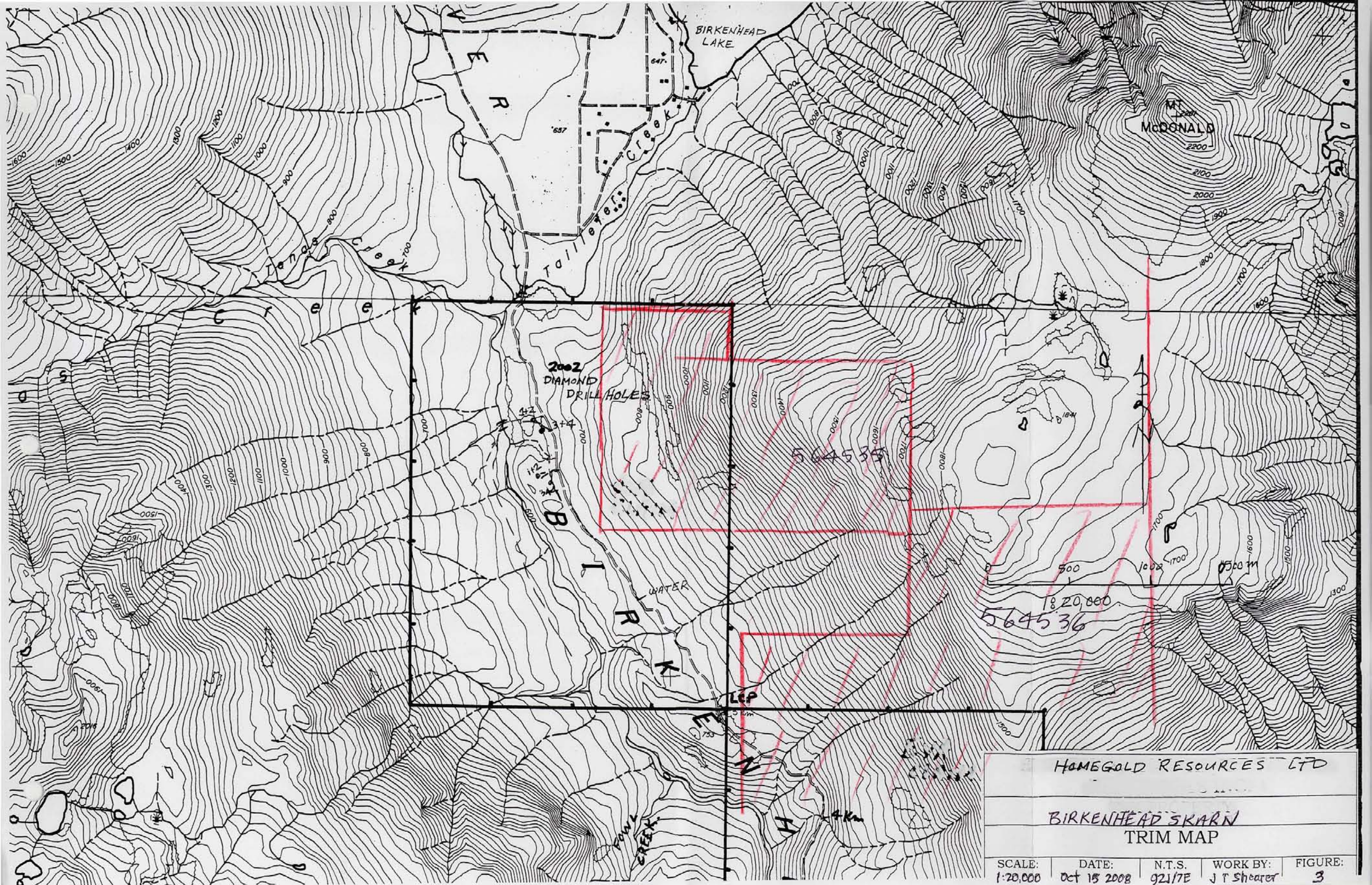
SCALE: 1:50,000	DATE: Oct 15 2008	N.T.S. 92J/7E	WORK BY: J P Shearer	FIGURE: 2
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Access to the claims is gained by travelling northeast for 6 km from Pemberton along a paved road to Mount Currie. From Mount Currie travel north for 16.5 km along the Pemberton-Darcy paved road to the old Bramson Siding on the B.C. Rail line. The Birkenhead Properties is accessible from logging roads on the east side of Birkenhead River 7.3 km from the railway. New roads are presently being built west up the Tenquille Creek drainage (Figure 2).

### **Field Procedures**

Prospecting and geological observations were conducted on a basemap obtained from the 1:20,000 Trim Map. Locations of the samples are plotted on the resulting map produced from GPS points measured by hand-held GPS units and saved in digital format.



HAMEGOLD RESOURCES LTD				
BIRKENHEAD SKARN TRIM MAP				
SCALE: 1:20,000	DATE: Oct 15 2008	N.T.S. 921/7E	WORK BY: J T Shearer	FIGURE: 3

## CLAIM STATUS

The principal area of interest is covered by the Birkenhead Gold and Birkenhead Skarn Claims staked under the MTO System and registered in the name of J. T. Shearer.

**TABLE I**  
**List of Claims**

Claim Name	Tenure Number	Size (ha)	Cells	Date Located	* Current Anniversary Date	Registered Owner
Birkenhead Skarn Zone	564535	493.41	24	August 13, 2007	August 13, 2010	J. T. Shearer
Birkenhead Skarn Two	564536	287.89	14	August 13, 2007	August 13, 2010	J. T. Shearer
Birkenhead Gold 3	566777	410.78	20	September 26, 2007	September 26, 2010	J. T. Shearer
Birken	575814	554.47	27	February 9, 2008	February 22, 2011	J. T. Shearer
Birken South	589840	493.22	24	August 13, 2008	August 13, 2011	J. T. Shearer

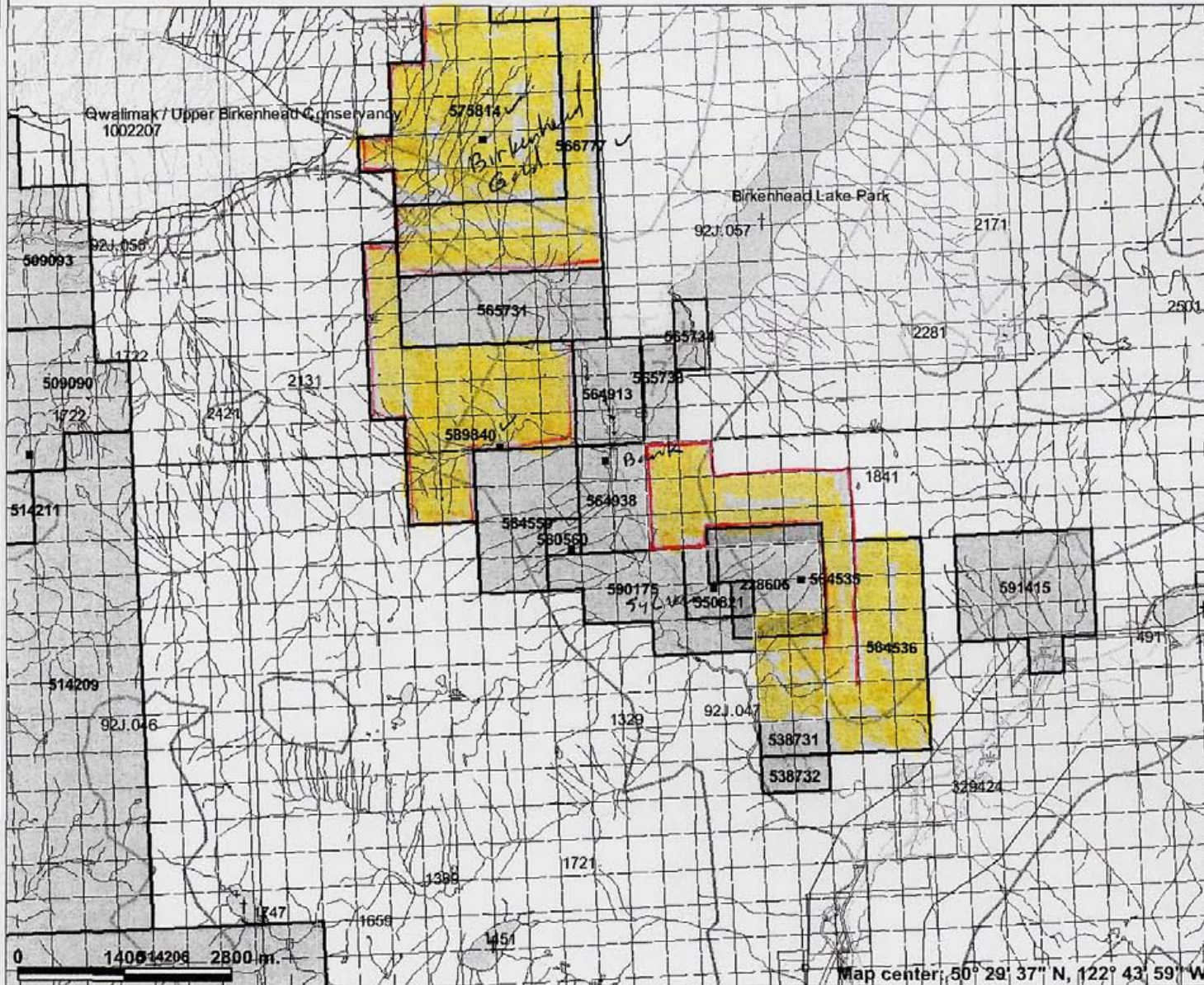
Total 2,239.77 hectares

Mineral title is acquired in British Columbia via the Mineral Act and regulations, which require approved assessment work to be filed each year in the amount of \$4 per hectare per year for the first three years and then \$8 per hectare per year thereafter to keep the claim in good standing.

Quarry Resources includes earth, soil, marl, peat, sand and gravel, and rock, rip-rap and stone products that are used for construction purposes (as defined in the *Land Act*). Construction means the use of rock or other natural substances for roads, buildings, berms, breakwaters, runways, rip-rap and fills and includes crushed rock. Dimension stone means any rock or stone product that is cut or split on two or more sides, but does not include crushed rock.

Immediately to the east of the Birkenhead Claim is the Sylvan Claim at which some minor underground was completed about 15 years ago on a massive pyrrhotite pod. A small bulk sample was collected by others in 2008.

# Claim Map--Birkenhead Gold



### Legend

**MINFILE Status**

- ⌘ Producer
- ⌘ Past Producer
- ⌘ Developed Prospect
- All others

**Indian Reserves**

- Indian Reserves
- National Parks
- Parks

**Mineral Titles Grid (LRDW)**

- Mineral Tenures (Mineral - LRDW)
- Mineral Claim
- Mineral Lease

**Reserves (Mineral - LRDW Sites)**

- Placer Claim Designation
- Placer Lease Designation
- No Staking Reserve
- Conditional Reserve
- Release Required Reserve
- Surface Restriction
- Recreation Area
- Others

**Mining Division (MTO)**

- Survey Parcels
- BCGS Grid

**Contours (1:250K)**

- ✓ Contour - Index
- ✓ Contour - Intermediate
- ✓ Area of Exclusion
- Area of Indefinite Contours

**Transportation - Points (TRIM)**

- ⊙ Helipad
- Transportation - Lines (TRIM)

Scale: 1:78,710

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.

CLAIM MAP Figure 4

## HISTORY

Prior to 1987, at the Birkenhead Gold there is no record of previous staking or work performed within the immediate Birkenhead Gold area and the mineralized veins were essentially new discoveries.

However, the general surrounding area has a long history of mineral exploration being a relatively short distance southwest of the prolific Bridge River Camp, which includes the Bralorne-Pioneer Gold Mine, the largest producer of lode gold in British Columbia.

Mineral Exploration began in the Tenquille Lake area in 1916, during the construction of the Pacific Great Eastern Railway. Between 1923 and 1937, work was conducted on the Gold King (092JNE054) and Dora May Claims, and the Li-Li-Kel (092JNE052) property. The zinc-rich skarn and shear hosted vein type Mineralization on the Gold King and Dora May were explored by several opencuts and diamond drilling. Little other work was conducted until the 1960s when Phelps Dodge Corp. carried out exploration work in the area. Various other companies have conducted limited exploration throughout the surrounding area since. In 1990 Teck Corp. staked the Apollo, Sun and God claims of the Sun God property covering the Gin showing.

The general Birkenhead Properties and Fowl Creek area was investigated by Bralorne-Pioneer Mines Ltd. in 1963 (Nichollis, 1963) and Becket (1969) and Burton (1970 for Norse Explorations Ltd. Burton records that 1,412 recce samples were collected. More comprehensive exploration work was carried out in the early 1980's for Morgain Minerals (Howell, 1981, Richards, 1984 and Christopher, 1985) consisting of geological, geochemical and geophysical surveys. Howell collected 350 soils in 1981. The Bank 1 to 4 Claims were owned by J. M. Malcolm (Donegal Developments Ltd.) by staking in 1994. In 1994, M. Terry was hired to evaluate the mineral potential of the property (Assessment Report 23595).

The majority of outcrops in the vicinity of the Bank showing consist of medium to dark grey lithic tuff with minor andesite flows. Minor limestone was found near the site of some old workings. The dominant fabric strikes north and dips 58° to 83° to the east. The major fracture pattern strikes east and dips 58° to 78° south. A 5cm wide shear was located in one lithic tuff outcrop. Varying degrees of silicification is evident in most outcrops. Weak to moderate Argillic alteration is also present. Chloritization is strong at the old workings.

Six rock samples were taken in 1994; two from the old workings and four from the 2002 drilled area outcrop to the southeast. Sample Bank 2 from the old workings yielded 0.13 per cent copper, 0.15 percent zinc and 1.4 grams per tonne silver (Assessment report 23595). Sample Bank 1, also from the old working yielded 3.3 grams per tonne silver and 0.84 gram per tonne gold.

Sample Bank 4, from the 2002 drilled area outcrop yielded 0.66 percent copper, 22.9 grams per tonne silver and 1.02 grams per tonne gold (Assessment Report 23595). Sample Bank 3 yielded 62.0 grams per tonne silver and 4.05 grams per tonne gold, which is close to the surface zone in hole TEX-02-04 o the present program.. Sample 523316 yielded 0.71 per cent copper 8.5 grams per tonne silver and 0.62 gram per tonne gold. Sample 523317 yielded 0.52 percent copper, 19.7 grams per tonne silver and 0.58 gram per tonne gold. Samples Bank 3 and 4 also yielded 0.20 and 0.13 per cent arsenic.

Immediately east of the Birken Skarn is the Sylvan Claim, which was the site of a small underground program about 15 years ago on a massive pyrrhotite pod and further small bulk sampling was completed by others in 2008.

## REGIONAL GEOLOGY

The Tenquille-Birkenhead Lake area is located just east of the east margin of the Coast Intrusive Complex, a major north-west trending igneous and metamorphic tectonic belt in the Canadian Cordillera.

The rocks of the Tenquille-Birkenhead Lake area consist of a series of andesite flows, tuffs and breccias and some minor flows of rhyolite breccia. Also thin beds of slate, argillite, limestone and conglomerate outcrop within the sequence. This unit is mapped as part of the Cadwallader Group of Upper Triassic Age (Woodsworth, 1977) and appears to be the Pioneer and Hurley Formations of this group (Riddell, 1990), refer to Figure 4.

Intruding these units from the southeast is the Cretaceous Spetch Creek Pluton of granodiorite, probably related to the Coast Intrusive Complex. Related to this intrusion are a series of dykes and sills throughout the volcanic sedimentary package. The dykes are possibly coeval with the volcanic flows (Riddell, 1990) on the nearby Gold King property. Several small intrusive plugs occur around and just to the north of Tenquille Lake.

There are a number of northwest trending shears and folds. The Owl Creek Fault is a major regional northwest trending fault (Riddell, 1990) that separates major rock units. This fault zone is traced over 100 kilometres and is an extension of the regionally significant Harrison Lake Fault Zone. The rocks to the southwest of the fault are the Cretaceous Fire Lake Group, largely tuffs and sandstone. The rocks to the northwest are a Triassic and post Triassic group of often undifferentiated volcanoclastic, tuffaceous and sedimentary sequence of the Cadwallader Group and Cretaceous diorite intrusives. The Grizzly shear is a major northwest trending shear through to the southwest of the Birkenhead Gold Showings. The northwest trending folding in the area south of Tenquille Lake was apparent by mapping.

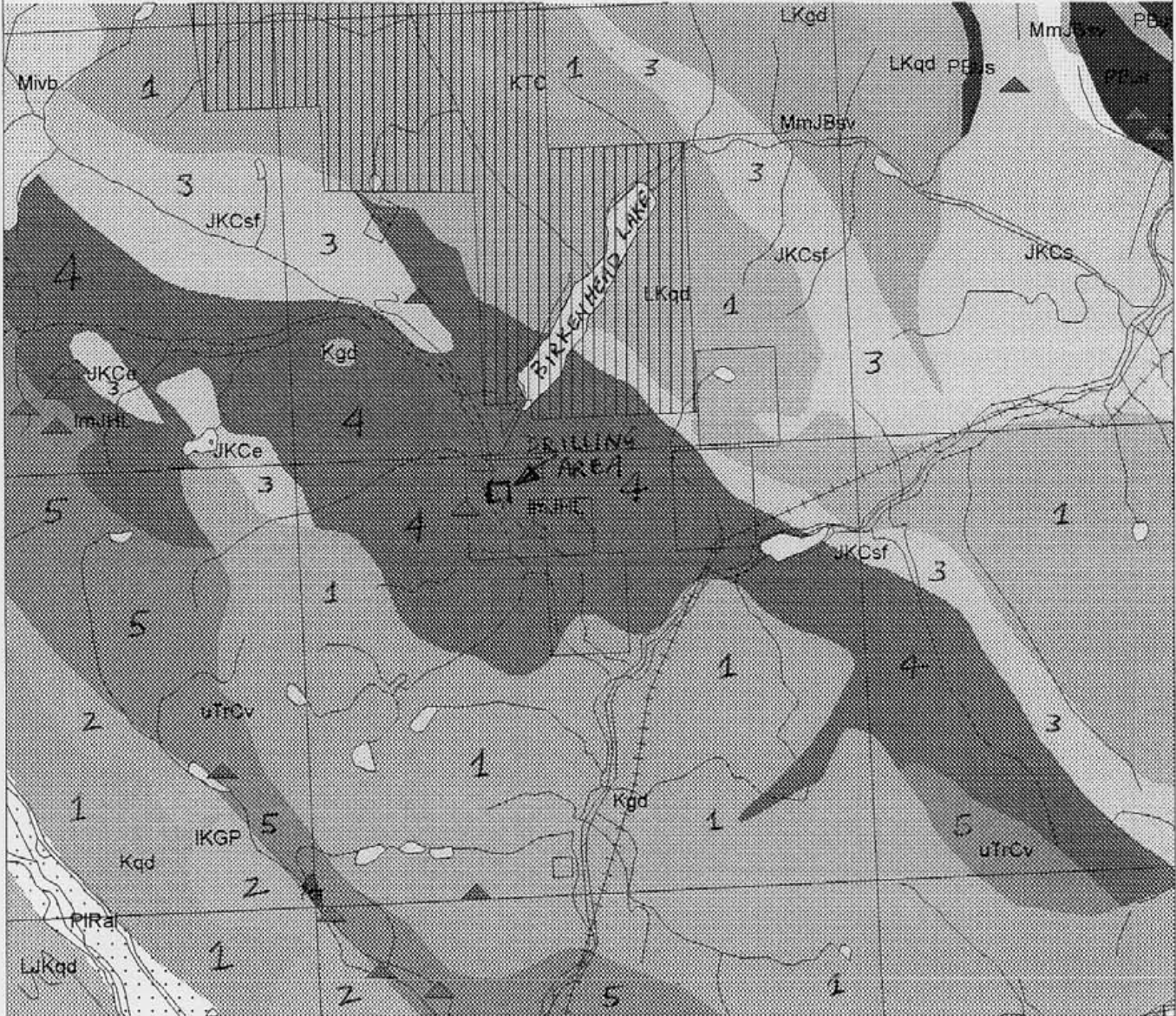
At the Gin showing (Paulter, 1990 & 1991), just west of the Jon Claim, the Cadwallader Group has been subdivided into five units which from oldest to youngest are: 1) massive andesite, 2) mixed pyroclastic, 3) felsic volcanic, 4) mixed pyroclastic and 5) sedimentary. The massive andesite units consist of dark green massive basaltic andesite flows. The mixed pyroclastic unit consists of pale to dark green andesitic to dacitic fine tuffs, lithic tuffs, feldspar crystal tuffs and lapilli tuff with minor interbedded porphyritic flows. The felsic volcanic unit consists of light grey to pale green rhyolite and rhyodacite flows, commonly feldspar porphyritic. The mixed pyroclastic and sedimentary unit consists of well bedded andesite to dacite, lithic and lapilli tuffs with abundant limestone, limestone breccias, calcareous feldspar-rich wackes, black shale, siltstone and chert interbeds. The upper sedimentary unit consists of an upward fining sequence of cobble conglomerate, feldspar-rich greywackes and sandstones, black shale and chert. The Gin showing is hosted by limestone in an assemblage of andesite and dacite flows, breccia and tuff and sedimentary rocks (Paulter, 1991).

The Gin showing consists of massive pyrrhotite skarn, with sphalerite and chalcopyrite adjacent to the Spetch Creek pluton. Copper and zinc concentrations are patchy. The mineralized zone is 3 metres wide by 300 metres long. The adjacent granite is extremely oxidized and rusty, containing fine seams and clots of pyrite and chalcopyrite. Pyritic seams within the Spetch pluton contains up to 0.13% copper (sample 14206, Assessment Report 21274). Lenses of pyrrhotite, with occasional trace chalcopyrite and sphalerite are hosted in mudstones and cherty beds. Associated rocks are well bedded lithic tuffs and feldspar-rich wackes of the Cadwallader Group. Local patchy oxidized pyrrhotite clots occur throughout the host rocks. The Mineralization appears to be due to hornfelsing of more calcareous beds (Paulter, 1991). The Gin showing appears to be similar to the Sylvan pyrrhotite zone.

A major northwest trending fault, passing through the west end of Cerulean Lake is located to the west of the Claims (part of the Harrison Lake Fault System).

GEOLOGICAL LEGEND

- 1 Kgd Cretaceous granodiorite
- 2 IKGP Cretaceous Gambier Group
- 3 JKCSf Jurassic-Cretaceous  
*Coyash* Assemblage, Mudstone, Shale
- 4 IMJHL Lower Jurrassic,  
Harrison Lake Formation
- 5 UtrCv Upper Triassic  
Cadwallader Group Volcanics
- 6 MnJBSv Miss.-Mid Jurassic  
Bridge River Complex



0 1 2 3 4 Km

1:1,750,000

REGIONAL GEOLOGY

SCALE:  
as shown

DATE:  
Dec. 15, 2008

N.T.S.  
92J/7E

WORK BY:  
J. T. Shearer

FIGURE:  
5

## PROPERTY GEOLOGY

The area within the claim boundaries is underlain by the Pioneer and Hurley Formations consisting mainly of greenstone, andesite flows, tuff, and breccia and thin bedded argillite, slate and phyllite.

A large hornblende quartz diorite pluton is exposed along the north ridge within 1km of the northern claim boundary. The pluton is elongated northwest, roughly parallel to the strike of the layered rocks.

A small body of coarse grained equigranular pyroxene bearing diorite was discovered within the northwest portion of the Birkenhead Gold Claim. This discovery is particularly significant if the diorite can be correlated with the augite diorite of the Bralorne intrusions. Within this area quartz veins and lenses which are generally weakly mineralized with pyrite and much lesser chalcopyrite have been sampled but gold values have been unfavourable.

The main showing is within the southeastern portion of the Birkenhead Gold Claim. The host rock encompassing the vein occurrences is a fissible thin splitting, light pale green, very fine grained sediment or tuff with locally developed phyllitic partings parallel to bedding. The thickness of this unit in the area of the showing is about 30 metres. It trends northwest and dips variably between 10°-40° northeasterly. The three veins representing the showing occur both parallel and cross-cutting to the stratigraphy and although they have a lenticular appearance, hand digging over a length of about 10 metres had not terminated the largest vein.

Mineralization within the veins consists of blebs to minor disseminations of pyrite and much lesser chalcopyrite, sphalerite, galena and molybdenite.

An anomalous gold value was also obtained from a sample taken on the west of the Claim. In this area disseminated pyrite occurs within a 1.5 metre wide exposure consisting of a repetitive sequence of 1cm wide bedded parallel quartz veins in a siliceous slaty dark grey argillite.

The majority of outcrops in the vicinity of the Bank showing consist of medium to dark grey lithic tuff with minor andesite flows (Terry, 1994). Minor limestone was found near the site of some old workings. The dominant fabric strikes north and dips 58° to 83° to the east. The major fracture pattern strikes east and dips 58° to 78° south. A 5cm wide shear was located in one lithic tuff outcrop. Varying degrees of silicification is evident in most outcrops. Weak to moderate Argillic alteration is also present. Chloritization is strong at the old workings (Terry, 1994).

At the old workings and 300 metres to the south-southeast, pyrite and chalcopyrite with minor arsenopyrite, sphalerite and galena were observed as disseminations. Malachite is present.

Six rock samples were taken at the Birkenhead Gold Zone in 1994 (Terry, 1994); two from the old workings and four from the outcrop to the southeast around where the 4 2002 diamond drillholes were situated. Sample Bank 2 from the old workings yielded 0.13 per cent copper, 0.15 percent zinc and 1.4 grams per tonne silver (Assessment report 23595). Sample Bank 1, also from the old working yielded 3.3 grams per tonne silver and 0.84 gram per tonne gold.

Sample Bank 4, from the outcrop yielded 0.66 percent copper, 22.9 grams per tonne silver and 1.02 grams per tonne gold (Terry, 1994, Assessment Report 23595). Sample Bank 3 yielded 62.0 grams per tonne silver and 4.05 grams per tonne gold, which is similar in gold content to the surface gold zone encountered in Hole TEX-02-04. Sample 523316 yielded 0.71 per cent copper 8.5 grams per tonne silver and 0.62 gram per tonne gold. Sample 523317 yielded 0.52 percent copper, 19.7 grams per tonne silver and 0.58 gram per tonne gold. Samples Bank 3 and 4 also yielded 0.20 and 0.13 per cent arsenic (Terry, 1994).



## PROSPECTING and MINERALIZATION IN 2007 and 2008

Prospecting on the lower elevations at the claim areas was hampered by deep overburden and rubble and was restricted to creek draws where outcrop was generally good throughout the sedimentary-volcanic sequence. Outcrop at higher elevations is good, but the terrain is precipitous.

Sampling of the numerous quartz veins and lenses noted in the area was mainly by grab sampling usually of material carrying sulphides notably pyrite and sometimes pyrrhotite with occasional minor chalcopyrite.

Previously hand trenching over a period of fifteen days was carried out on and around the quartz showings in the main quartz vein area. A total of approximately 30 cu metres of overburden was removed from seven trenches and test pits.

Previously five of these trenches were dug to bedrock. Large boulders, rubble, and overburden proved too deep in two others. Hanging wall to footwall sections of the quartz veins were exposed in trench 1, 2, 3, and 4. Further trenching is required to assess their strike extension.

Previous assays of grab samples of brecciated quartz with goethite cement are up to 15.2g/tonne (0.443 oz/ton gold). Float samples of rusty, pyritic quartz material assayed 1.95 oz/ton gold from the area below the main quartz vein trench.

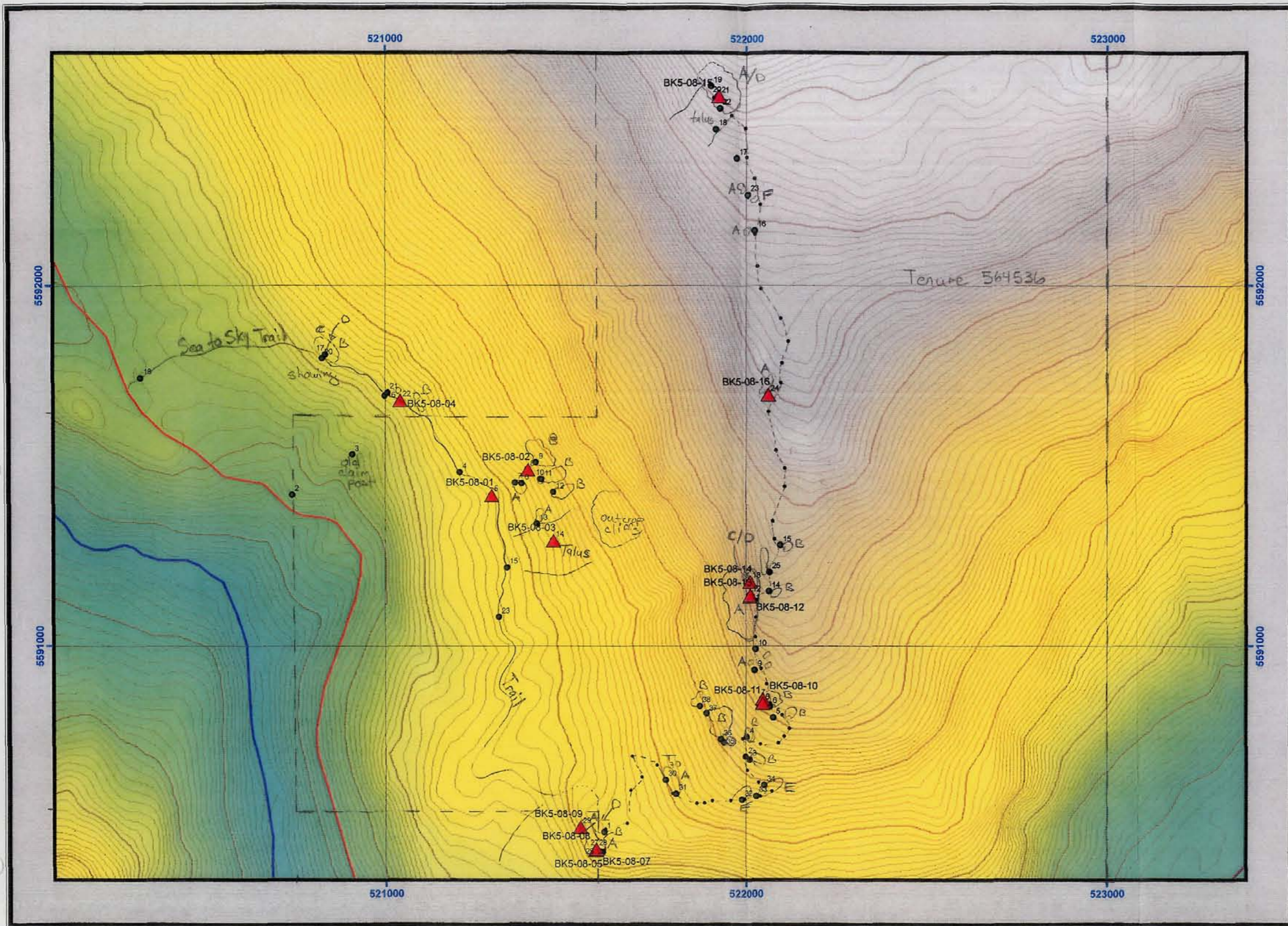
Previous diamond drilling on the Birkenhead Properties was completed in November 2002. A total of 4 holes (818 ft, 249.33m) tested the area that was trenched last year near the old mine shaft area.

The geological environment can be defined as a complex intrusive-skarn zone developed along the contact of the Spetch Creek Intrusive and Triassic Cadwallader Group Volcanics and sedimentary rocks. The primary skarn is compositionally zoned from zoisite-diopside-quartz skarn, through quartz-minor epidote skarn, siliceous quartz skarn and dark green chlorite-pyrite-pyrrhotite skarn. Brown garnet occurs irregularly in the zoisite and epidote zones. Significant amounts of disseminated pyrite and pyrrhotite are relatively constant throughout the area tested and can form semi massive to massive sections associated with the chlorite skarn and epidote skarn.

Zoning of the skarn assemblages appears from preliminary work to reflect the original composition of the host rocks coupled with the chemical (metamorphic and metasomatic) control of the intrusive body. Similar patterns elsewhere are ascribed to the random overlay of "oxide availabilities" in the diffusing fluids during dynamic metamorphism. Only one phase will be stable at the edge of a zone depending on pressure, temperature and coincidental overlap of oxide availabilities. At the overlap point the solubility product of a particular phase (mineral) is exceeded and precipitation occurs. Original carbonate composition often provides the minor irregularities on the superimposed metasomatic processes.

The Birkenhead Properties is along the northern continuation of the regionally important Harrison Lake Fault Zone.

The extensive zoisite-diopside-quartz skarn zone and associated epidote-sericite-quartz altered (skarnified) intrusive rocks were previously investigated with a 4 hole diamond drill program. Several anomalous zones were encountered, which include 3.99g/tonne Au over 3 metres in Hole Tex-02-04 between 3.05m to 6.10m. This hole is vertical and is on the south side of the old shaft area. The higher gold values are associated with geochemically elevated values of zinc, lead silver and copper. Gold results are in Atomic Absorption by Chemex and the core was carefully split under the direct supervision of a qualified person. Interestingly the Tex-03-04: 3.05m to 6.10m interval has lower sulphur content but



Birkenhead <sup>Skarn</sup> 5 km  
Project  
Homegold Resources

Rock Units

- A - Cherty Tuff
- B - Diorite
- C - Limestone
- D - Skarn
- E - Quartz Felspar Porphyry
- F - Argillite
- G - Granodiorite

- - - claim boundary
- outcrop
- 9 waypoint N
- ▲ sample location



Scale 1:10,000  
10 Metre Contour Interval  
UTM Projection, Zone 10  
NAD 83 Datum

Field Work by Liz Scroggins, BSc.  
Map drawn by Andrew Wilkins BSc., PGeo  
Geoclimb Consultants  
October, 2008

Traverse Map +  
Sample Locations  
Birkenhead  
Skarn.  
Figure 6

higher iron content suggesting that perhaps the elevated gold is not associated only with pyrite but perhaps magnetite as well.

Significant gold intervals are:

Tex-02-04	0.61m-6.1m (5.5 metre core intercept) average 2.41g/tonne Au Including 3.05m-6.1m of 3.99g/tonne Au
Tex-02-04	24.38m-27.43m (3.05m core intercept) average of 0.514g/tonne Au
Tex-02-04	54.86m-57.91m (3.05m core intercept) average of 2.17g/tonne Au
Tex-02-02	51.82m-57.91m (6.1m core intercept) average 0.565g/tonne Au

The gold enriched zones occur at surface in hole Tex-02-04 and this zone warrants further work by surface trenching to define its surface extent. The gold enriched zones encountered at depth in Holes Tex-02-02 and Tex-02-04 occur in widely distributed rock types and further work is warranted to trace their distribution on surface.

J. T. Shearer, M.Sc., P.Geo., Liz Scroggins, B.Sc. (Geol) and Steve Shearer traversed an old overgrown logging road off the main Birkenhead Forest Service Road. A total of three quartz float samples were collected.

Liz Scroggins and Doug MacCray traversed the logging road which became more overgrown and obscured at the higher elevations. The crew proceeded up dried up creek beds and into logging slash. A total of four grab samples were collected but the showing was not located.

Additional traverses were completed up the road to the creek crossing (Creek #2) and up into the logging slash. Two helicopter landing pads were noted and recorded. Near the top of the slash another overgrown logging/skidder road was found. Travelling east from this road, the showing was located. The showing was in a large clearing of outcrop and talus slopes. Evidence of past work included one vertical drill hole, core boxes, several trenches with older skidder roads built throughout. Several quartz veins were sampled and a total of nine rock samples were collected.

A crew was also sent out to slash out the old logging road up to the landing (marked on map). This will facilitate easier access to the property in the future.

Results of the sampling on the Birkenhead Gold Property are contained in Appendix III and sample of milky white quartz containing pyrite and chalcopyrite BKG-102 assayed 1.5 g/tonne gold.

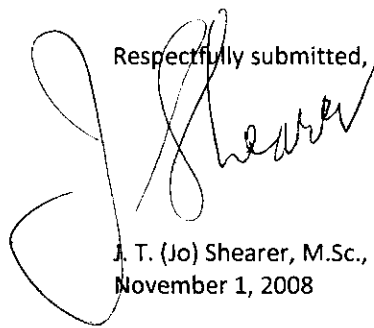
## INTERPRETATION and CONCLUSIONS

The results from prospecting and sampling have demonstrated good economic potential, particularly within the Birkenhead Gold Claim.

Future property work should consist of establishing a detailed grid around the main showing for the purposes of detailed geologic mapping, soil and rock sampling, and geophysics. Some reconnaissance contour soil sampling should be done along the lower slope below the showing.

Construction of an access road for excavator trenching should also be given future consideration.

Respectfully submitted,



J. T. (Jo) Shearer, M.Sc., P.Geo.  
November 1, 2008

## COST ESTIMATE for FUTURE WORK

A Phase I 2009 program of continued geological mapping, data compilation and prospecting is warranted at a cost of \$80,000. Contingent on favourable results of Phase I, a Phase II trenching program and Phase III diamond drilling program is recommended.

### Phase II

Continued Geological Mapping and Detail Sampling and Trenching

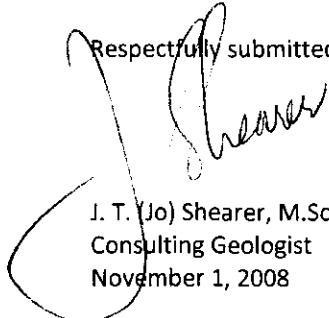
Geological Mapping	\$ 20,000.00
Transportation +	5,000.00
Analytical	10,000.00
Report Preparation	5,000.00
Trenching, Birkenhead Gold Zone	<u>40,000.00</u>
Total Phase I	\$ 80,000.00

### Phase III if Warranted by Phase II results

Diamond Drilling for Fresh Samples, Geological Mapping

Geological mapping and property maintenance	\$ 10,000.00
Diamond drilling, 400m @ \$82.50 per metre	44,000.00
Supervision, mob & demob, core splitting	15,000.00
Analytical	10,000.00
Mapping, Report preparation, word processing	6,000.00
Transportation	<u>5,000.00</u>
Total Phase II	\$ 90,000.00
<b>Total Phase I &amp; II</b>	<b>\$ 170,000.00</b>

Respectfully submitted,

  
J. T. (Jo) Shearer, M.Sc., P.Geo.  
Consulting Geologist  
November 1, 2008

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**APPENDIX I**

**STATEMENT of QUALIFICATIONS**

**NOVEMBER 1, 2008**

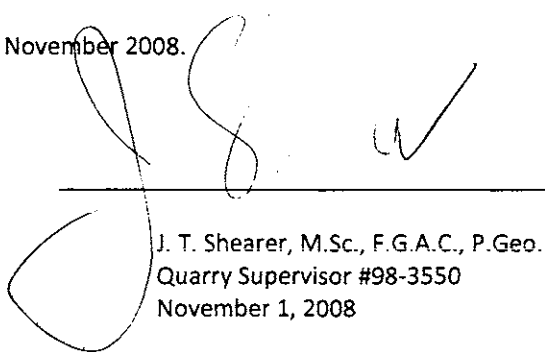
Appendix I

STATEMENT OF QUALIFICATIONS

I, JOHAN T. SHEARER, of 1817 Greenmount Avenue, in the City of Port Coquitlam, in the Province of British Columbia, do hereby certify:

1. I am a graduate of the University of British Columbia (B.Sc., 1973) in Honours Geology, and the University of London, Imperial College (M.Sc., 1977).
2. I have over 30 years experience in exploration for base and precious metals and industrial mineral commodities in the Cordillera of Western North America with such companies as McIntyre Mines Ltd., J. C. Stephen Explorations Ltd., Carolin Mines Ltd. and TRM Engineering Ltd.
3. I am a fellow in good standing of the Geological Association of Canada (Fellow No. F439) and I am a member in good standing with the Association of Professional Engineers and Geoscientists of British Columbia (Member No. 19,279) and a member of the CIMM and SEG (Society of Economic Geologists).
4. I am an independent consulting geologist employed since December 1986 by Homegold Resources Ltd. at #5-2330 Tyner St., Port Coquitlam, B.C.
5. I am the author of the present report entitled "Prospecting and Geological Report on the Birkenhead Gold and Birkenhead Skarn Properties, Pemberton-Birkenhead River Area, Lillooet Mining Division: November 1, 2008".
6. I have visited the property in 2001 and several times between September 23, 2007 and September 15, 2008. I have carried out sample collection and am familiar with the regional geology and geology of nearby properties. I have become familiar with the previous work conducted on the Birkenhead Gold and Birkenhead Skarn Properties by examining in detail the available reports and maps and have discussed previous work with persons knowledgeable of the area.
7. I have an interest in the Birkenhead Gold and Birkenhead Skarn Properties.

Dated at Port Coquitlam, British Columbia, this 1<sup>st</sup> day of November 2008.



J. T. Shearer, M.Sc., F.G.A.C., P.Geo.  
Quarry Supervisor #98-3550  
November 1, 2008

**APPENDIX II**

**STATEMENT of COSTS**

**NOVEMBER 1, 2008**

Appendix II

**STATEMENT of COSTS  
BIRKENHEAD Gold Property**

Wages and Benefits

J. T. Shearer, M.Sc., P.Geo., Senior Geologist	
August 26, Sept. 4+5, 2008, 3 days @ \$700/day	\$ 2,100.00
Liz Scroggins, B.Sc. (Geology)	
August 26, Sept. 4,5+14, 3 days @ \$500/day	1,500.00
	GST 5% <u>180.00</u>
	Subtotal Wages \$ 3,780.00

Transportation

Truck Rental, Fully equipped 4x4	
3 days @ \$98.89/day	296.67
Truck Rental, Fully equipped 4x4	
3 days @ \$98.89/day	296.67
Gas	285.00
Hotel & Meals	980.00
D. Machray, Prospector. September 4, 5+14, 3 days @ \$300 day	900.00
S. L. Shearer, Prospector, September 12, 13+14, 3 days @ \$300 day	900.00
G. Richards, Road Clearing, September 12, 13+14, 3 days @ \$200 day	600.00
Equipment Charges (chain saws)	200.00
Analytical (Chemex Labs) 16 samples @ \$31.50/sample	252.00
Helicopter, Blackcomb Helicopters, 1.5 hr @ \$1,950/hour	2,925.00
Report Preparation	1,400.00
Word Processing and Reproduction	<u>300.00</u>
	Subtotal \$ 9,335.34

**GRAND TOTAL \$ 13,115.34**

Statement of Costs \$10,100.00  
 Work Applied \$11,667.83  
     for 2 years each  
 PAC Withdrawal 1567.83  
 Event #4237866

Appendix II

**STATEMENT of COSTS  
BIRKENHEAD Skarn Property**

Wages and Benefits

J. T. Shearer, M.Sc., P.Geo., Senior Geologist		
July 30 + August 3+4, 2008, 3 days @ \$700/day		\$ 2,100.00
Liz Scroggins, B.Sc. (Geology) Geologist		
August 3, 4, 5 + 6, 2008, 4 days @ \$500/day		2,000.00
D. Machray, Prospector		
August 3, 4, 5 + 6, 2008, 4 days @ \$300/day		1,200.00
	GST 5%	<u>265.00</u>
	Subtotal Wages	\$ 5,565.00

Transportation

Truck Rental, Fully equipped 4x4		
6 days @ \$100/day		600.00
Gas		250.00
Hotel & Meals		325.00
Equipment Charges (GPS Units)		200.00
Mapping		500.00
Report Preparation		1,400.00
Word Processing and Reproduction		<u>250.00</u>
	Subtotal	\$ 3,525.00

**GRAND TOTAL** **\$ 9,090.00**

Statement of Costs	\$9,000.00
Work Applied	\$6,250.45
Event #4231447	



**APPENDIX III**

**ASSAY CERTIFICATES**

**NOVEMBER 1, 2008**



INTERNATIONAL PLASMA LABS LTD.  
ISO 9001:2000 CERTIFIED COMPANY

# CERTIFICATE OF ANALYSIS

## iPL 08I4302



200 FRODO PERSEUS WAY  
Richmond, B.C.  
Canada V7A 4'  
Phone (604) 272-7818  
Fax (604) 272-0851  
Website www.ipl.ca

### Homegold Resources

Project : Birkenhead Gold  
Shipper : Johan T. Shearer  
Shipment: 1 PO#:  
Comment:

**16 Samples**

Print: Oct 09, 2008 In: Sep 09, 2008

[430218:31:08:80100908:001]

CODE	AMOUNT	TYPE	PREPARATION DESCRIPTION	PULP	REJECT
B21100	16	Rock	crush, split & pulverize to -150 mesh.	12M/Dis	03M/Dis
B84100	1	Repeat	Repeat sample - no Charge	12M/Dis	00M/Dis
B82101	1	Blk iPL	Blank iPL - no charge.	00M/Dis	00M/Dis
B90026	1	Std iPL	Std iPL (Au Certified) - no charge		

NS=No Sample Rep=Replicate M=Month Dis=Discard

### Analytical Summary

Analysis: Au(FA/AAS) / ICP(AqR)30

### Document Distribution

1 Homegold Resources  
Unit 5, 2330 Tyner Street  
Port Coquitlam  
B.C. V3C 2Z1  
Canada  
Att: Johan T. Shearer

Ph: (604)970-6402

Em: jo@homegoldresourcesltd.com

#	Code	Method	Units	Description	Element	Limit Low	Limit High
01	0801	Spec	Kg	Weight in Kilogram (1 decimal place)	Wt	0.1	9999.0
02	0313	FA/AAS	ppb	Au FA/AAS finish 30g	Gold	2	10000
03	0364	FAGrav	g/mt	Au FA/Grav in g/mt	Gold	0.07	5000.00
04	0721	ICP	ppm	Ag ICP	Silver	0.1	100.0
05	0711	ICP	ppm	Cu ICP	Copper	1	10000
06	0714	ICP	ppm	Pb ICP	Lead	2	10000
07	0730	ICP	ppm	Zn ICP	Zinc	1	10000
08	0703	ICP	ppm	As ICP	Arsenic	5	10000
09	0702	ICP	ppm	Sb ICP	Antimony	5	2000
10	0732	ICP	ppm	Hg ICP	Mercury	3	10000
11	0717	ICP	ppm	Mo ICP	Molybdenum	1	1000
12	0747	ICP	ppm	Tl ICP (Incomplete Digestion)	Thallium	10	1000
13	0705	ICP	ppm	Bi ICP	Bismuth	2	2000
14	0707	ICP	ppm	Cd ICP	Cadmium	0.2	2000.0
15	0710	ICP	ppm	Co ICP	Cobalt	1	10000
16	0718	ICP	ppm	Ni ICP	Nickel	1	10000
17	0704	ICP	ppm	Ba ICP (Incomplete Digestion)	Barium	2	10000
18	0727	ICP	ppm	W ICP (Incomplete Digestion)	Tungsten	5	1000
19	0709	ICP	ppm	Cr ICP (Incomplete Digestion)	Chromium	1	10000
20	0729	ICP	ppm	V ICP (Incomplete Digestion)	Vanadium	1	10000
21	0716	ICP	ppm	Mn ICP	Manganese	1	10000
22	0713	ICP	ppm	La ICP (Incomplete Digestion)	Lanthanum	2	10000
23	0723	ICP	ppm	Sr ICP (Incomplete Digestion)	Strontium	1	10000
24	0731	ICP	ppm	Zr ICP (Incomplete Digestion)	Zirconium	1	10000
25	0736	ICP	ppm	Sc ICP	Scandium	1	10000
26	0726	ICP	%	Ti ICP (Incomplete Digestion)	Titanium	0.01	10.00
27	0701	ICP	%	Al ICP (Incomplete Digestion)	Aluminum	0.01	10.00
28	0708	ICP	%	Ca ICP (Incomplete Digestion)	Calcium	0.01	10.00
29	0712	ICP	%	Fe ICP (Incomplete Digestion)	Iron	0.01	10.00
30	0715	ICP	%	Mg ICP (Incomplete Digestion)	Magnesium	0.01	10.00
31	0720	ICP	%	K ICP (Incomplete Digestion)	Potassium	0.01	10.00
32	0722	ICP	%	Na ICP (Incomplete Digestion)	Sodium	0.01	10.00
33	0719	ICP	%	P ICP	Phosphorus	0.01	5.00

\* Our liability is limited solely to the analytical cost of these analyses.  
ID=C058401

BC Certified Assayer: David Chiu, Francis Chan

Signature: \_\_\_\_\_



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# CERTIFICATE OF ANALYSIS

iPL 08I4302



Richmond, B.C.  
Canada V7A 4'  
Phone (604) 272-7818  
Fax (604) 272-0851  
Website www.ipl.ca

Client : Homegold Resources  
Project: Birkenhead Gold

Ship#1 **16 Samples**

16=Rock 1=Repeat 1=Blk iPL 1=Std iPL

[430218310880100908001] Print: Oct 09, 2008  
In: Sep 09, 2008

Page 1 of 1  
Section 1 of 2

Sample Name	Type	Wt Kg	Au ppb	Au g/mt	Ag ppm	Cu ppm	Pb ppm	Zn ppm	As ppm	Sb ppm	Hg ppm	Mo ppm	Tl ppm	Bi ppm	Cd ppm	Co ppm	Ni ppm	Ba ppm	W ppm
BKG-01	Rock	0.6	208	—	<0.1	3	<2	4	28	<5	<3	4	<10	<2	<0.2	2	5	2	<5
BKG-02	Rock	1.1	12	—	<0.1	3	<2	3	<5	<5	<3	4	<10	<2	<0.2	2	5	2	<5
BKG-03	Rock	0.9	4	—	<0.1	2	<2	1	<5	<5	<3	3	<10	<2	<0.2	2	4	<2	<5
BKG-04	Rock	1.1	14	—	<0.1	5	5	8	<5	<5	<3	4	<10	<2	<0.2	2	5	10	<5
BKG-05	Rock	1.0	4	—	<0.1	6	<2	12	<5	<5	<3	4	<10	<2	<0.2	2	5	15	<5
BKG-06	Rock	1.7	<2	—	<0.1	2	<2	<1	<5	<5	<3	1	<10	<2	<0.2	2	4	<2	<5
BKG-07	Rock	1.6	6	—	<0.1	4	<2	2	<5	<5	<3	4	<10	<2	<0.2	1	3	<2	<5
BKG-08	Rock	1.1	8	—	<0.1	4	3	44	<5	<5	<3	1	<10	<2	<0.2	6	6	30	<5
BKG-09	Rock	1.2	<2	—	<0.1	23	<2	9	<5	<5	<3	7	<10	<2	<0.2	5	5	6	<5
BKG-010	Rock	1.4	<2	—	<0.1	6	<2	5	<5	<5	<3	<1	<10	<2	<0.2	9	5	11	<5
BKG-011	Rock	1.4	4	—	<0.1	6	<2	2	<5	<5	<3	4	<10	<2	<0.2	1	3	<2	<5
BKG-012	Rock	1.7	1450	1.50	1.4	10	<2	6	<5	<5	<3	18	<10	3	<0.2	9	8	7	<5
BKG-013	Rock	1.3	4	—	<0.1	45	<2	54	<5	<5	<3	4	<10	<2	<0.2	19	19	39	<5
BKG-014	Rock	1.6	22	—	<0.1	3	5	2	<5	<5	<3	5	<10	<2	<0.2	2	4	<2	<5
BKG-015	Rock	1.0	4	—	<0.1	5	<2	1	<5	<5	<3	1	<10	<2	<0.2	2	5	<2	<5
BKG-016	Rock	1.6	6	—	<0.1	59	<2	192	<5	<5	<3	4	<10	<2	<0.2	22	16	40	<5
RE BKG-01	Repeat	—	208	—	<0.1	3	<2	4	26	<5	<3	5	<10	<2	<0.2	2	5	2	<5
Blank iPL	Blk iPL	—	<2	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
OXI67	Std iPL	—	1820	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
OXI67 REF	Std iPL	—	1817	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Minimum Detection 0.1 2 0.07 0.1 1 2 1 5 5 3 1 10 2 0.2 1 1 2 5  
Maximum Detection 9999.0 10000 5000.00 100.0 10000 10000 10000 10000 2000 10000 1000 1000 2000 2000.0 10000 10000 10000 10000  
Method Spec FA/AAS FAGrav ICP ICP ICP ICP ICP ICP ICP ICP ICP ICP ICP ICP ICP ICP ICP ICP  
—=No Test Ins=Insufficient Sample Del=Delay Max=No Estimate Rec=ReCheck m=x1000 %=Estimate % NS=No Sample





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Client : Homegold Resources  
Project: Birkenhead Gold

### 16 Samples

Print: Oct 09, 2008  
In: Sep 09, 2008

Page 1 of 1  
Section 2 of 2

Sample Name	16=Rock 1=Repeat 1=Blk iPL 1=Std iPL [430218310880100908001]															
	Cr ppm	V ppm	Mn ppm	La ppm	Sr ppm	Zr ppm	Sc ppm	Ti %	Al %	Ca %	Fe %	Mg %	K %	Na %	P %	
BKG-01	171	<1	28	14	1	<1	<1	<0.01	0.04	0.03	1.37	0.01	<0.01	0.01	<0.01	
BKG-02	175	<1	30	3	1	<1	<1	<0.01	0.04	0.02	0.32	<0.01	0.01	0.01	<0.01	
BKG-03	156	<1	18	3	<1	<1	<1	<0.01	0.02	<0.01	0.23	<0.01	<0.01	0.01	<0.01	
BKG-04	180	3	34	5	4	<1	<1	<0.01	0.11	0.06	0.48	0.04	0.01	0.01	0.01	
BKG-05	171	14	71	9	3	<1	<1	0.01	0.33	0.05	0.77	0.20	0.01	0.02	<0.01	
BKG-06	172	<1	16	2	<1	<1	<1	<0.01	0.03	0.01	0.19	0.01	<0.01	0.01	<0.01	
BKG-07	156	1	18	3	<1	<1	<1	<0.01	0.04	<0.01	0.28	0.01	<0.01	0.01	<0.01	
BKG-08	125	13	309	12	12	<1	<1	0.04	0.64	0.19	0.98	0.33	0.07	0.02	0.02	
BKG-09	164	3	110	12	<1	<1	<1	<0.01	0.17	<0.01	1.16	0.03	0.01	0.01	0.01	
BKG-010	150	5	84	4	<1	<1	<1	0.01	0.14	0.01	0.37	0.05	0.01	0.01	<0.01	
BKG-011	157	<1	19	3	<1	<1	<1	<0.01	0.01	<0.01	0.31	<0.01	<0.01	<0.01	<0.01	
BKG-012	168	<1	21	16	<1	<1	<1	<0.01	0.05	<0.01	1.52	<0.01	0.02	0.01	<0.01	
BKG-013	47	33	386	56	8	<1	<1	0.09	1.90	0.27	4.45	1.48	0.10	0.03	0.08	
BKG-014	208	<1	25	3	<1	<1	<1	<0.01	0.03	<0.01	0.32	0.01	0.01	0.01	<0.01	
BKG-015	238	<1	35	3	<1	<1	<1	<0.01	0.03	<0.01	0.33	<0.01	0.01	0.01	<0.01	
BKG-016	54	75	1579	68	27	<1	1	0.13	2.60	0.59	5.50	1.83	0.06	0.05	0.13	
RE BKG-01	179	<1	30	14	1	<1	<1	<0.01	0.04	0.03	1.30	0.01	<0.01	0.01	<0.01	
Blank iPL	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
OXI67	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
OXI67 REF	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	

Minimum Detection	1	1	1	2	1	1	1	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
Maximum Detection	10000	10000	10000	10000	10000	10000	10000	10.00	10.00	10.00	10.00	10.00	10.00	10.00	5.00
Method	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP

—=No Test Ins=Insufficient Sample Del=Delay Max=No Estimate Rec=ReCheck m=x1000 %=Estimate % NS=No Sample



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Certificate#: 0814302  
Client: Homegold Resources  
Project: Birkenhead Gold  
Shipment#: 1  
PO#:  
No. of Samples: 16  
Analysis #1: Au(FA/AAS)  
Analysis #2: ICP(AqR)30  
Analysis #3:  
Comment #1:  
Comment #2:  
Date In: Sep 09, 2008  
Date Out: Oct 09, 2008

Sample Name	SampleType	Wt Kg	Au ppb	Au g/mt	Ag ppm	Cu ppm
BKG-01	Rock	0.6	208	--	<0.1	3
BKG-02	Rock	1.1	12	--	<0.1	3
BKG-03	Rock	0.9	4	--	<0.1	2
BKG-04	Rock	1.1	14	--	<0.1	5
BKG-05	Rock	1.0	4	--	<0.1	6
BKG-06	Rock	1.7	<2	--	<0.1	2
BKG-07	Rock	1.6	6	--	<0.1	4
BKG-08	Rock	1.1	8	--	<0.1	4
BKG-09	Rock	1.2	<2	--	<0.1	23
BKG-010	Rock	1.4	<2	--	<0.1	6
BKG-011	Rock	1.4	4	--	<0.1	6
BKG-012	Rock	1.7	1450	1.50	1.4	10
BKG-013	Rock	1.3	4	--	<0.1	45
BKG-014	Rock	1.6	22	--	<0.1	3
BKG-015	Rock	1.0	4	--	<0.1	5
BKG-016	Rock	1.6	6	--	<0.1	59
RE BKG-01	Repeat	--	208	--	<0.1	3
Blank iPL	Blk iPL	--	<2	--	--	--
OXI67	Std iPL	--	1820	--	--	--
OXI67 REF	Std iPL	--	1817	--	--	--
Minimum detection		0.1	2	0.07	0.1	1
Maximum detection		9999	10000	5000	100	10000
Method		Spec	FA/AAS	FAGrav	ICP	ICP

\* Values highlighted (in yellow) are over the high detection limit for the corresponding methods. Other testing me

**APPENDIX IV**

**SAMPLE DESCRIPTIONS**

**NOVEMBER 1, 2008**

Rock Samples	Description
BK5-08-01	Rusty weathered surface on angular boulder float. Grey green cherty tuff with ~ 1% disseminated pyrite. Minor chlorite and epidote alternation.
BK5-08-02	Rusty weathered angular boulder in talus. Grey green cherty tuff trace to 1% pyrite
BK5-08-03	Rusty angular float, dark grey fine grained, mafic tuff with 1-2mm feldspar phenocrysts. Disseminated pyrite ~ 1%
BK5-08-04	Dark grey, fine grained diorite with minor sericite alteration and trace pyrite
BK5-08-05	Rusty skarn zone - light green, siliceous tuff, with epidote, chlorite and sericite and pyrite
BK5-08-06	Rusty skarn zone- light grey-green, cherty tuff with chlorite, epidote, sericite and pyrite
BK5-08-07	Rusty skarn zone- light grey-green, cherty tuff with chlorite, epidote, sericite and pyrite
BK5-08-08	Light grey cherty tuff in contact with creamy white limestone. Fine grained disseminated pyrite and sericite
BK5-08-09	Light green grey cherty tuff with chlorite alteration and disseminated pyrite 1-2 %
BK5-08-10	Rusty weathered surface of grey green fine grained siliceous (almost cherty) tuff with disseminated pyrite ~ 1%
BK5-08-11	Rusty outcrop of light grey cherty argillite, banded with pyrite concentrating along bands (+/- chalcopyrite). Disseminated pyrite present throughout
BK5-08-12	Strongly altered zone of orange/yellow stained cliffs. Sample light grey, very siliceous fine grained tuff with chlorite, epidote and pyrite present. Quartz concentrated in small stringers and lenses
BK5-08-13	Strongly altered red-orange surface of grey white cherty limestone. Minor epidote present with 3-5 % disseminated pyrite throughout
BK5-08-14	Strongly altered red weathered surface. Dark green fine grained skarn with sericite on all fractured surfaces. Epidote and chlorite present. Fine grained pyrite in matrix to medium grained blebs 2 %
BK5-08-15	Abundant red, orange and yellow staining in cliff outcrop. Sample light grey cherty tuff with sericite on fractured surfaces and epidote alteration in places. Disseminated pyrite throughout ~ 1%
BK5-08-16	South end of cliff outcrop, weathered surface. Light to medium grey cherty tuff with disseminated pyrite and sericite on surfaces

Name	Date	Zone	Easting	Northing	Elevation (m)	Descriptor	Notes
	26-Aug-08	10	517425	5597486	879		old skidder road off main road
	26-Aug-08	10	517400	5597497		BKG-01	angular quartz float, barren with some rust staining
	26-Aug-08	10	517070	5597813	940		road washed out, creek crossing
	26-Aug-08	10	516893	5597973		BKG-02	angular quartz float
	26-Aug-08	10	516633	5598163		BKG-03	quartz float with trace pyrite
36	4-Sep-08	10	516629	5598105	944		creek crossing
37	4-Sep-08	10	516300	5598402	993		curve in road
38	4-Sep-08	10	516447	5598485	1043	BKG-04	angular quartz float
39	4-Sep-08	10	516549	5598469	1051	BKG-05	angular quartz float/rusty orange
40	4-Sep-08	10	516675	5598423	1063		curve in road
41	4-Sep-08	10	516694	5598419	1069	BKG-06	subangular white quartz float in creek draw
42	4-Sep-08	10	516584	5598252	995	BKG-07	subangular quartz float rose coloured
43	4-Sep-08	10	516524	5598169	963		at road
44	4-Sep-08	10	516640	5598101	949		creek # 6
45	4-Sep-08	10	516711	5598071	953		creek #4
46	4-Sep-08	10	516981	5597904	952		creek # 3
47	4-Sep-08	10	517064	5597838	937		overgrown creek
4	5-Sep-08	10	517075	5597807	926		creek crossing- traverse up this creek #1
5	5-Sep-08	10	517067	5597837	933		Creek # 2
6	5-Sep-08	10	517123	5598021	1005		traverse up creek # 2
7	5-Sep-08	10	517190	5598069	1039		Heli pad in logging slash
8	5-Sep-08	10	517294	5598187	1115	BKG-08	quartz lenses in andesitic boulder
9	5-Sep-08	10	517299	5598221	1138		upper Heli pad
10	5-Sep-08	10	517323	5598283	1173		upper overgrown logging road
11	5-Sep-08	10	517362	5598287	1178		Outcrop in road cut, fine grained green andesite
12	5-Sep-08	10	517565	5598177	1198		base of large outcrop , quartz veins intruding schistose host rock
13	5-Sep-08	10	517564	5598187	1212		vertical drill hole into talus
14	5-Sep-08	10	517572	5598191	1214	BKG-09 -1C	quartz vein rusty
15	5-Sep-08	10	517570	5598168	1203	BKG-11	quartz float in talus- quartz rosy with red shiny crystal faces
16	5-Sep-08	10	517562	5598177	1202	BKG-12	milky white quartz with rust staining
17	5-Sep-08	10	517574	5598139	1199		
18	5-Sep-08	10	517571	5598143	1198	BKG-13	rusty argillite with disseminated pyrite
19	5-Sep-08	10	517611	5598130	1197	BKG-14	quartz vein with rusty red staining
20	5-Sep-08	10	517599	5598120	1192		top of road heading down showing with large quartz boulders in talus
21	5-Sep-08	10	517576	5598080	1169		below large outcrop (# 18)
22	5-Sep-08	10	517572	5598084	1168	BKG-15	quartz "boulder"
23	5-Sep-08	10	517543	5598091	1160		down switchback road
24	5-Sep-08	10	517531	5598090	1158		down switchback road
25	5-Sep-08	10	517538	5598088	1157	BKG-16	Rusty boulder -fine grained grey siliceous sediment with disseminated
26	5-Sep-08	10	517382	5597535	882		main road
27	5-Sep-08	10	517605	5597289	847	old log sor	main road Showing 028 degrees

## Birkenhead Gold Rock Grab Samples

BKG-01	angular quartz float, barren with some rust staining
BKG-02	angular quartz float
BKG-03	quartz float with trace pyrite
BKG-04	angular quartz float
BKG-05	angular quartz float with rusty orange staining
BKG-06	subangular white quartz float in creek draw
BKG-07	subangular quartz float rose coloured
BKG-08	quartz lenses in andesitic boulder

### Samples 09 to 15 from the Showing:

BKG-09	Quartz vein outcrop 40 mm wide, rusty within green andesitic tuff
BKG -10	Rusty quartz with black staining on fractures in same outcrop as BKG-09
BKG-11	quartz float in talus- quartz rosy with red shiny crystal faces, no mineralization see
BKG-12	milky white quartz with rust staining, pyrite +/- chalcopyrite
BKG-13	rusty argillite with disseminated pyrite
BKG-14	1 metre wide quartz vein with rusty orange and red staining, minor sericite
BKG-15	quartz "boulder" 1 mx square below main showing
BKG-16	Rusty boulder float -fine grained grey siliceous sediment with disseminated pyrite

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Waypoint	Zone	Easting	Northing	Elevation (m)	Description	Notes
2	10	520743	5591420	686		park on logging road
3	10	520909	5591532	756		Old claim post in forest, no tags
4	10	521205	5591482	875		onto Sea to Sky Trail within claim
5	10	521294	5591419	882	BK5-08-01	talus slope above road
6	10	521379	5591451	940		o/c
7	10	521360	5591453	947		edge of talus slope
8	10	521395	5591489	968	BK5-08-02	rusty skarn boulder in talus
9	10	521418	5591509	990		massive o/c ref
10	10	521430	5591463	981		o/c south of 009
11	10	521434	5591462	982		o/c
12	10	521467	5591427	1013		same as 009
13	10	521420	5591339	955		o/c
14	10	521466	5591293	943	BK5-08-03	rusty angular float
15	10	521337	5591217	885		back to Sea to Sky trail road
16	10	520999	5591696	841		edge of claim ?
17	10	520834	5591809	826		showing along road (excavator)
18	10	520325	5591744	720		Birkenhead FSR
19	10	521240	5589765	670		access road
20	10	520826	5591799	827		showing along road (excavator)
21	10	521006	5591703	842		Sea to Sky trail
22	10	521041	5591682	846	BK5-08-04	small o/c along road
23	10	521315	5591080	895		Claim post Sassy # 5 May 1987
24	10	521604	5590431	943		large clearing along road
25	10	521586	5590437	938	BK5-08-06	
26	10	521584	5590437	931	BK5-08-05	
27	10	521585	5590439	934	BK5-08-07	
28	10	521586	5590439	936	BK5-08-08	contact between tuff /limestone
29	10	521541	5590500	932	BK5-08-09	
30	10	521778	5590630	1006		o/c along road
31	10	521807	5590592	1013		end of o/c
32	10	521989	5590575	1062		trail to east : o/c
33	10	522030	5590585	1076		o/c ref
34	10	522052	5590615	1100		trail heading north (horse trail)
35	10	521939	5590733	1119		o/c in forest
36	10	521931	5590742	1119		contact
37	10	521891	5590814	1106		end of o/c
38	10	521872	5590834	1105		o/c
1	10	521608	5590486	953		clearing
2	10	521999	5590693	1138		on old horse trail
3	10	522011	5590685	1143		o/c

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5	10	521294	5591419	882 BK5-08-01
8	10	521395	5591489	968 BK5-08-02
14	10	521466	5591293	943 BK5-08-03
22	10	521041	5591682	846 BK5-08-04
25	10	521586	5590437	938 BK5-08-06
26	10	521584	5590437	931 BK5-08-05
27	10	521585	5590439	934 BK5-08-07
28	10	521586	5590439	936 BK5-08-08
29	10	521541	5590500	932 BK5-08-09
7	10	522047	5590854	1243 BK5-08-10
8	10	522047	5590842	1236 BK5-08-11
11	10	522010	5591137	1336 BK5-08-12
12	10	522012	5591141	1335 BK5-08-13
13	10	522011	5591178	1340 BK5-08-14
21	10	521922	5592520	1718 BK5-08-15
24	10	522061	5591697	1499 BK5-08-16



4	10	522004	5590748	1162	o/c
5	10	522077	5590802	1227	o/c
6	10	522068	5590832	1240	o/c
7	10	522047	5590854	1243 BK5-08-10	skarn zone
8	10	522047	5590842	1236 BK5-08-11	
9	10	522025	5590933	1270	o/c
10	10	522027	5590991	1290	top of cliff, rocks trending North
11	10	522010	5591137	1336 BK5-08-12	top of large cliffs tuff?
12	10	522012	5591141	1335 BK5-08-13	White grey limestone, disseminated throughout
13	10	522011	5591178	1340 BK5-08-14	north end of cliffs
14	10	522065	5591152	1356	o/c along horse trail away from cliffs- ref
15	10	522096	5591280	1393	same as 014
16	10	522025	5592151	1592	small o/c tuff
17	10	521972	5592351	1644	large boulder tuff with rounded
18	10	521915	5592430	1665	edge of large talus field
19	10	521900	5592548	1712	high gossanous cliffs
20	10	521921	5592521	1719	below cliffs - photo
21	10	521922	5592520	1718 BK5-08-15	
22	10	521926	5592487	1702	south below / cliffs
23	10	522005	5592249	1619	in forest west of trail o/c
24	10	522061	5591697	1499 BK5-08-16	
25	10	522066	5591205	1368	large o/c same as 014

48	5-Sep-08	10	517561	5598196	1214 Aurum Claim Post	in main showing area
49	5-Sep-08	10	517691	5598085	1203	edge of showing
50	5-Sep-08	10	517637	5598121	1201	trench
51	5-Sep-08	10	517616	5598130	1199	trench
52	5-Sep-08	10	517533	5598094	1157	trench



Close up of main quartz vein. Note schistose texture of rock

Below vein.



Large argillite outcrop below showing. Old drill rods, hose and  
Other materials left behind.

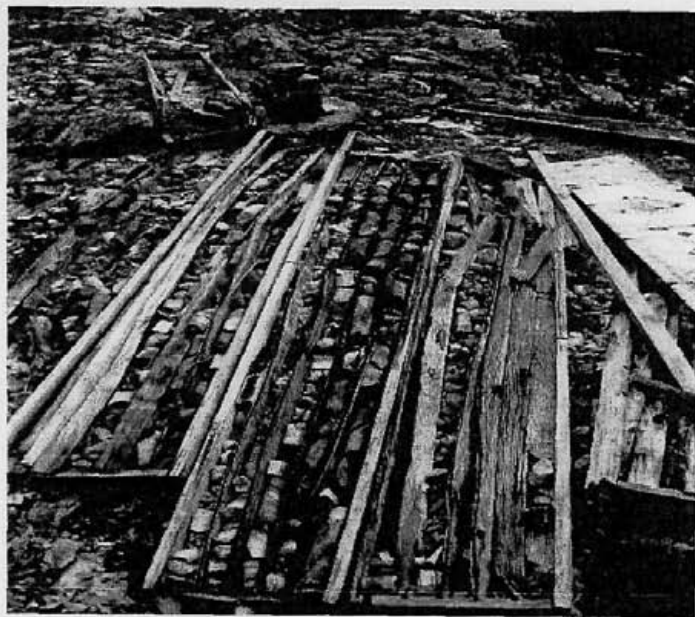
Photos taken September 5, 2008



Showing looking south



Bottom of showing



Drill core left on site

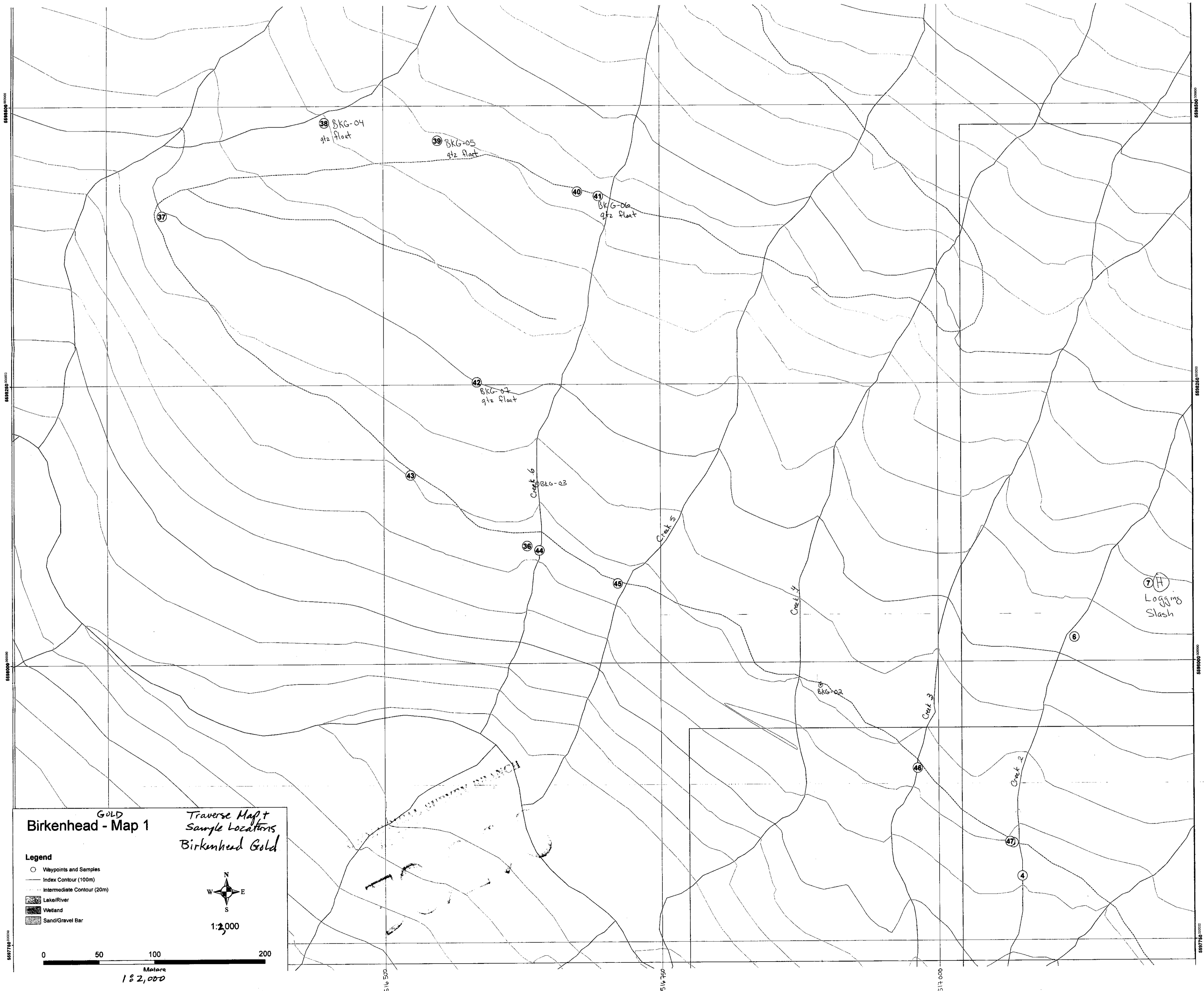
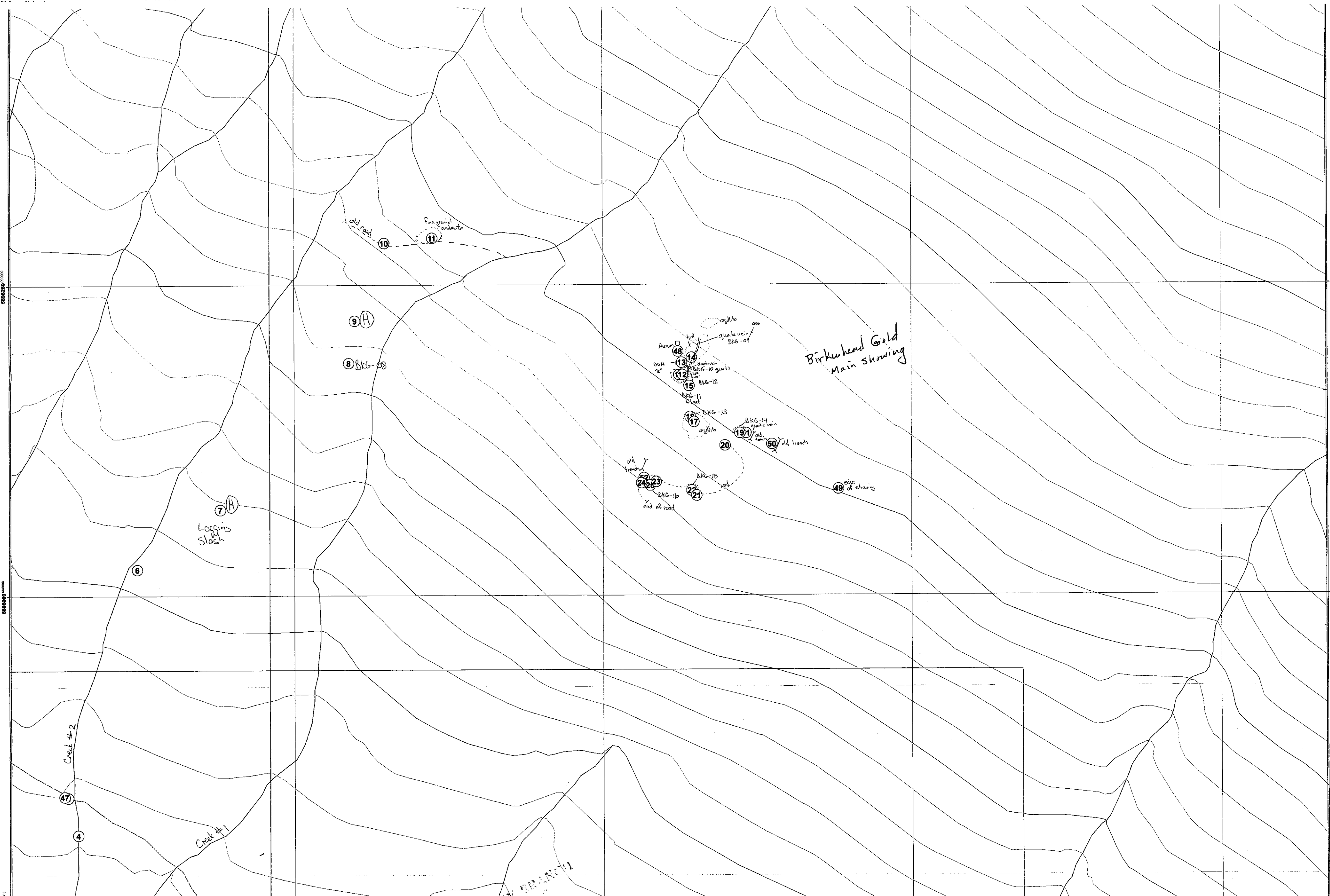


FIGURE 7



**GOLD**  
**Birkenhead - Map 2**

Traverse Map +  
 Sample Locations  
 Birkenhead Gold

- Legend**
- Waypoints and Samples
  - Index Contour (100m)
  - - - Intermediate Contour (20m)
  - ▬ Lake/River
  - ▨ Wetland
  - ▩ Sand/Gravel Bar
  - Outcrop



1:2,000



1:2,000  
 Meters

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FIGURE 8

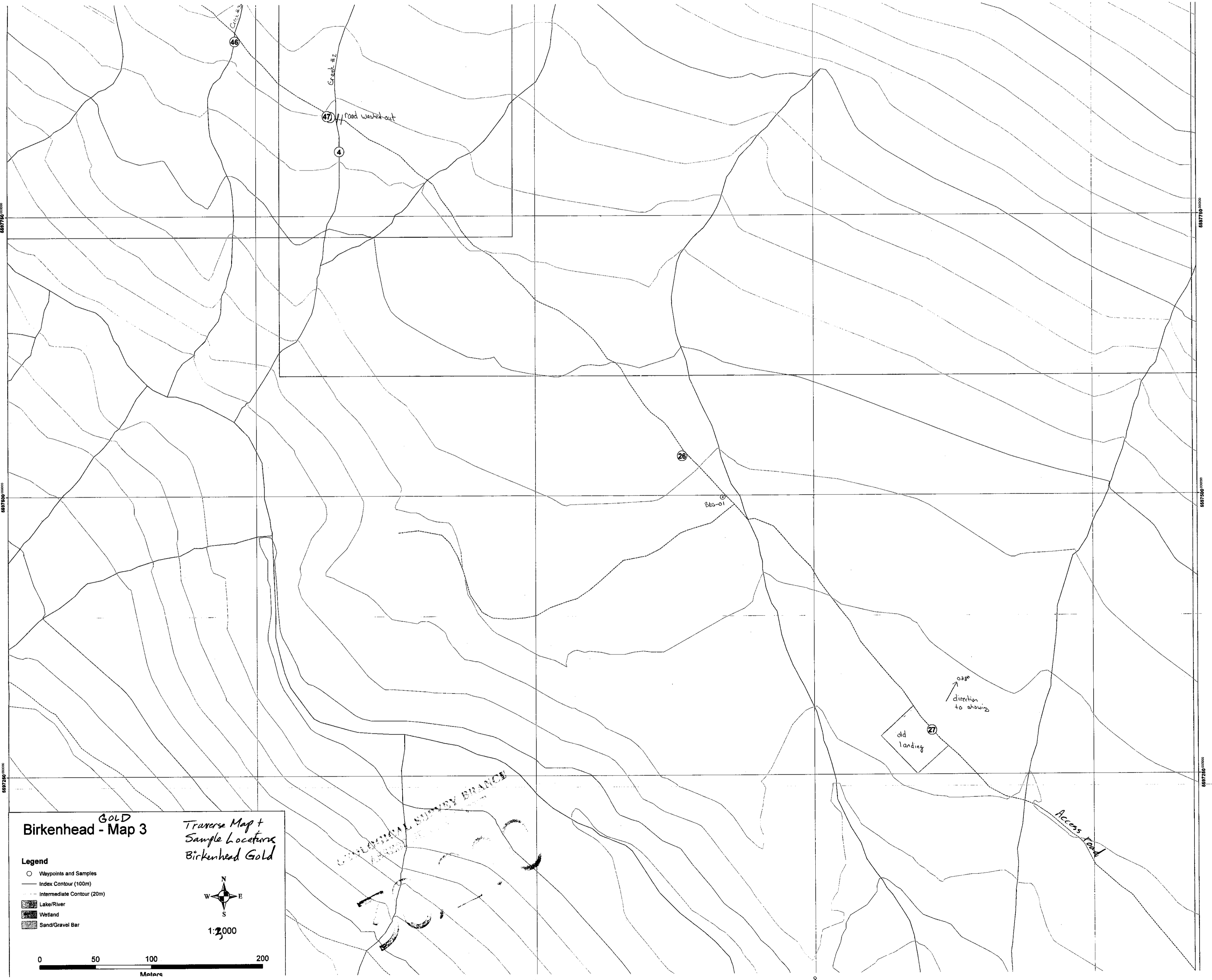


FIGURE 9