

**Beaconsfield Gold NL**

**EL 19/97 - Winkleigh**

**Year 1 Annual Report**

**MICROFILMED**  
FICHE No. 014694-95

MINERAL RESOURCES	
EL 19/97	
20 AUG 1998	
See Folio 20	

K.C. Morrison  
17 August 1998

AMG REFERENCE POINTS ADDED

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## **SUMMARY**

**A program of air photo interpretation, field mapping, rock chip and soil sampling and one percussion drill hole was completed on EL 19/97 during licence Year 1.**

**Two areas of outcropping Cabbage Tree Formation siliciclastic sedimentary rocks were delineated and a coincident rock chip gold + arsenic / soil arsenic anomaly was generated on Cabbage Tree Formation sandstone at Winkleigh.**

**A 60 metre vertical RC percussion drill hole tested the Winkleigh anomaly. No mineralisation was encountered but the hole confirmed that the Cabbage Tree Formation sandstone is thrust over younger Flowery Gully Limestone at the anomaly site. The surface anomaly is interpreted to be sourced from the NE dipping thrust or associated shear structures.**

**Further exploration on the Winkleigh thrust structure and the application of magnetics to test structural signatures on mineralised sites in the region will be conducted in licence Year 2.**

## **TENEMENT INFORMATION**

EL 19/97 covers 16 km<sup>2</sup> of freehold farm land and eucalypt plantation centred on Winkleigh, west of the Tamar Valley (Figure 1).

The licence was awarded to Beaconsfield Gold NL in September 1997, to explore for gold in the probable southerly extension of the belt of Ordovician sedimentary rocks which host the Tasmania Reef at Beaconsfield.

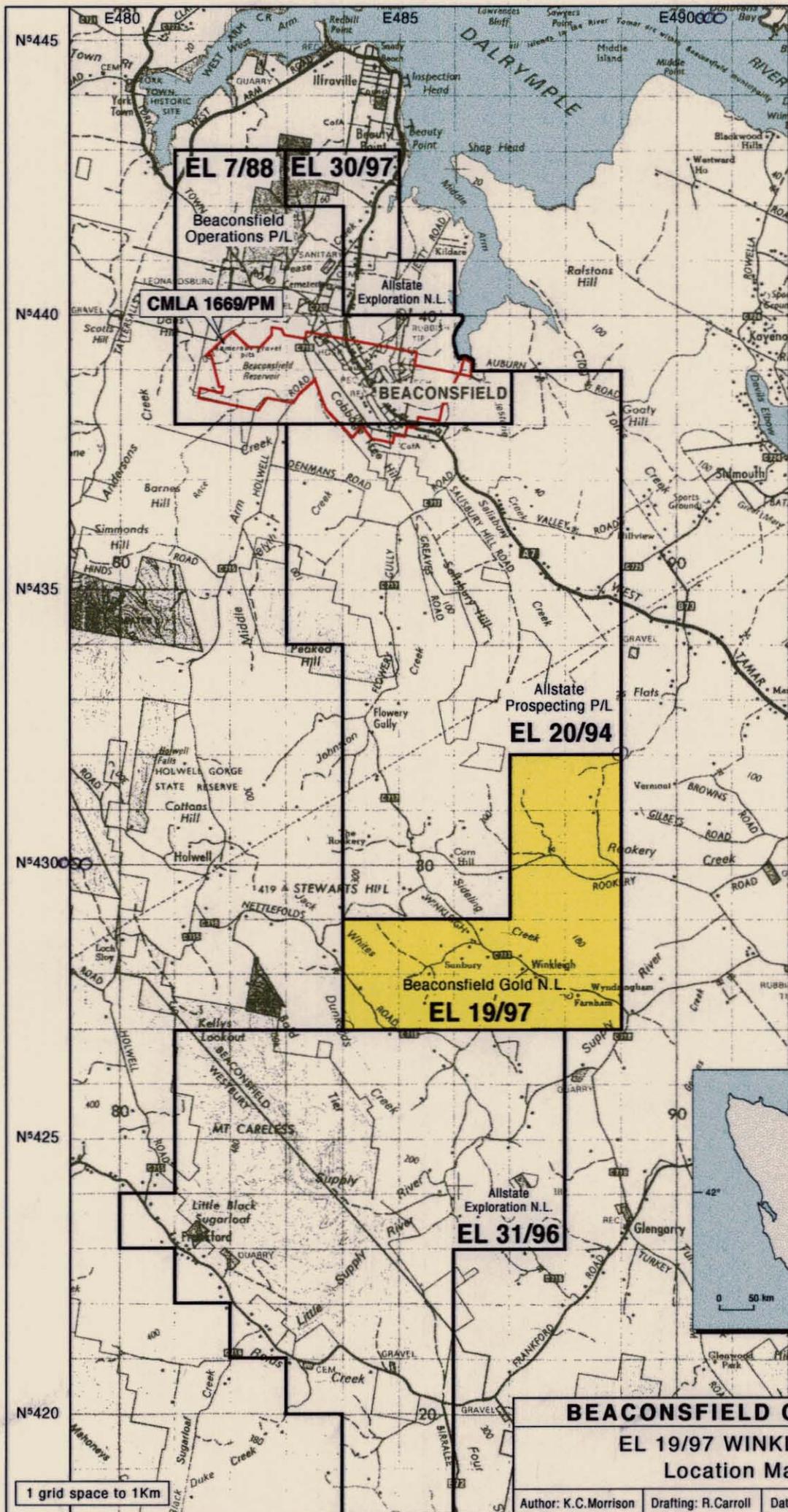
Infrastructure and services are well established throughout the area. Access to the north of the tenement is via Rookery Road and to the south, via Winkleigh Road. Both roads connect directly to the East Tamar Highway and consequently any part of the EL can be accessed all year round within one hour from either Launceston or Beaconsfield.

Beaconsfield Gold NL holds 100% equity in the licence.

This report deals with exploration conducted to date during licence Year 1 which ends on 19 September 1998.

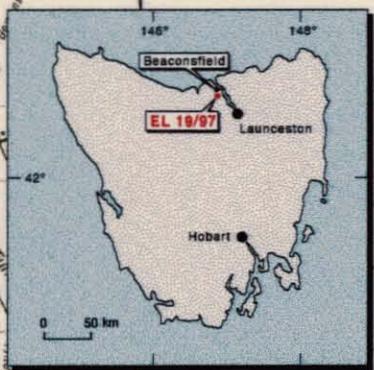
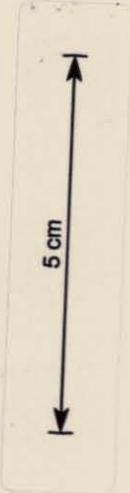
## **EXPLORATION PHILOSOPHY AND AIMS**

The primary aim of the Company is to explore EL 19/97 for gold deposits in similar stratigraphic and structural settings to the Tasmania Reef at Beaconsfield. It is also recognised that potential exists within the pre Permian rocks west of the Tamar River for mineralisation styles other than the high grade fault fill quartz reef style. In addition to Tasmania Reef replicas; stockwork systems, saddle reefs, disseminated gold in sandstone and limestone skarns are valid exploration targets. Zinc-silver-lead hosted



Map 01

526004



**Fig 1**

<b>BEAconsfield GOLD N L</b>			
<b>EL 19/97 WINKLEIGH</b>			
<b>Location Map</b>			
Author: K.C.Morrison	Drafting: R.Carroll	Date: 5.8.98	Scale: as shown

1 grid space to 1Km

in the Flowery Gully limestone is rated a secondary target within the EL. Broadly, the prospective geology comprises the NW-SE striking belt of thrust deformed Cambrian-Devonian sedimentary rocks south of Beaconsfield (Gee and Legge, 1971, Guilline, Bravo & Naqvi, 1973). The geology of the Tasmania Reef is described in detail by Hills (1998).

It is apparent from both the original Department of Mines Beaconsfield and Frankford 1:63,360 sheets and the recent 1:25,000 compilation (McClenahan, 1973) that two major regional geology issues affect the design of an exploration strategy within EL 19/97.

1. The target rocks outcrop over approximately 20% of the tenement. Elsewhere they are covered by a blanket of Permian and Cainozoic sediments of unknown thickness, with the Permian rocks being locally intruded by Jurassic dolerite.
2. Ordovician sandstones and siltstones (probable Cabbage Tree Formation correlates) have been interpreted to change abruptly along strike at the map sheet boundary to Silurian-Devonian Eldon Group correlates.

The Year 1 exploration strategy has been to focus on the Ordovician (and possible Siluro-Devonian) sedimentary units which outcrop/subcrop within the licence area and to simultaneously improve the regional scale mapping and explore these rocks for gold at a prospect generation level of intensity.

## **PREVIOUS PROSPECTING AND EXPLORATION**

Despite a location some 10 km along strike from the Tasmania Reef host rocks no evidence has been obtained, either from field work or library literature, of historical gold production or prospecting within the area now covered by EL 19/97.

Minor prospecting occurred in 1925 at The Rookery, NW of EL 19/97 and on Permian mudstone (McIntosh-Reid, 1925). No record of mineralisation is documented. In 1928 a 5 metre adit was driven on a north striking 30-60 cm wide quartz vein, known as Nevilles Prospect, somewhere between Glengarry and Winkleigh (Scott, 1928 and G. Purvis, pers. comm. 1998). The location and geology are poorly described but the site is interpreted to be south of EL 19/97 and the host rocks are probably Cabbage Tree Formation cleaved siltstones. Vein quartz sample assays reported by Scott (1928) returned no gold and trace silver.

Modern reconnaissance scale exploration was conducted over the Ordovician-Devonian rocks between Beaconsfield and Mt Careless in the late 1980s by Beaconsfield Gold Mines Ltd on behalf of the joint venture evaluating the Beaconsfield Mine at that time.

As the operators of EL 17/73, Beaconsfield Gold Mines Ltd flew an aeromagnetics/radiometrics survey, compiled the published regional geology and conducted stream sediment geochemistry over a broad area, including that currently within EL 19/97 (Hicks, 1989). All of the post Cambrian - pre Permian rocks within EL 19/97 were assigned to an undifferentiated Ordovician aged "younger than Cabbage Tree Formation" unit (Hicks, 1989). Sixteen drainage sites within or just

downstream from EL 19/97 were sampled and assayed for gold (BLEG) and copper, lead, zinc and arsenic (-80#). The highest gold values recorded are 1400 and 1100 parts per trillion in creeks draining Jurassic dolerite and Permian mudstone, in the SE and NE corners of the EL respectively. None of the base metals gave a worthwhile response but slightly elevated arsenic values of 35 and 20 ppm were achieved in two creeks in the Winkleigh area. Both creeks drain probable Cabbage Tree Formation rocks.

A combined fixed wing aeromagnetics/radiometrics survey was flown by Austirex International Ltd in 1988, at 100 metres mean terrain clearance. A generalised interpretation of the magnetic intensity data, by consultant geophysicist Dr. John Bishop, produced a set of NE-SW and NW-SE magnetic grain linears not corresponding to the positions of faults on the published geology (appendixed in Hicks, 1989 - TCR 89-3011).

Some experimental imaging of the 1988 data was undertaken in the current licence year by Dr R Richardson, Mineral Resources Tasmania. Map 1 shows a NE sun angle image of the regional data. The data are overwhelmed by the effects of, the Andersons Creek Ultramafic belt which runs into the western corner of EL 19/97, the dolerite intrusions related to the Tamar Graben (including the large magnetic high in the SE corner of EL 19/97) and the E-W linear artifacts reflecting the 150 metre E-W traverse spacing. Nevertheless, a prominent NW-SE trend exists through the Ordovician rocks in the Winkleigh area and the margin of the on-lapping Permian cover is also discernible. The prominent spot high in the NNW corner of EL 19/97 is probably due to the Westhaven dairy. Further work will be carried out in licence Year 2 on this data set to attempt to filter out the mafic rock responses and enhance structures in the Ordovician target rocks.

## **EL 19/97 YEAR 1 EXPLORATION RESULTS**

### **a) Photogeology**

In September 1997 a photo geological interpretation of the region containing EL 19/97 was completed by consultant geologist Dr Fred Baynes. The study was based on 1976 1:30,000 black and white and 1994 1:25,000 colour photography supplied by Tasmap, Department of Environment and Land Management. Map 2 shows lithological and stratigraphic units, bedding attitude and faulting as interpreted by a combination of geomorphic domain recognition and photolinear analysis. In contrast to the published Beaconsfield and Frankford geological map sheets, Map 2 shows -

- 1) the Flowery Gully Limestone and Eldon Group correlate extending further along strike and into EL 19/97, and
- 2) the SE striking pre Permian rocks in the NW corner of the EL are interpreted as Cabbage Tree Formation and Flowery Gully Limestone.

The main difference in structural geology is that the major NW-ESE fault through the centre of EL 19/97 is offset some 500 metres to the SE on Map 2, where it defines a Cabbage Tree Formation Eldon Group correlate contact.

Given the high degree of uncertainty as to the stratigraphic affinities and structural relationships of the pre Permian rocks, a program of mapping and rock chip and soil sampling was designed to attempt resolution of the basic geology whilst at the same time screening the target rocks for any preliminary indications of mineralisation.

#### b) Mapping and Sampling

The results of field mapping and interpretive geology are shown on Maps 3 and 4. The Permian and younger geology has been given only a cursory check in the field, sufficient to confirm the general distribution as shown on the published Geological atlas maps.

Four lithological associations were recognised within the two sectors of Pre Permian rocks outcropping within EL 19/97 and nearby to the NW, within the Beaconsfield Mine Joint Venture tenement EL 20/94 Salisbury Hill.

1) Black-dark grey slate grading to slaty shale and siltstone. A characteristic bleached weathering rind and linear 1-2 cm oxidised markings on fracture surfaces are distinctive features of this lithology. No evidence of fossils or bioturbation has been observed but this unit occurs along strike from a belt of black slate containing Silurian-Devonian marine invertebrate fauna and named the Corn Hill Beds by Hills (1982). The slates within EL 19/97 are assigned to the Corn Hill Beds but it is recognised that, in the absence of fossil control, the slate could be a litho correlate with parts of the Blyths Creek Formation or the Grubb Shale at Beaconsfield.

A NE dipping outcrop of quartz sandstone centred at 486,700mE, 5,328,850mN has been included in the Corn Hill Beds on Map 4, suggesting a lutite dominant turbidite sequence similar to parts of the Mathinna Beds east of the Tamar River. It is possible however that the sandstone body is a sliver of Cabbage Tree Formation sandstone structurally emplaced within the Corn Hill Beds.

2) Dark grey to medium blue grey crystalline impure micritic limestone with variable clots and veins of white calcite subcrops in a NW-SE trending corridor in the central NW part of the EL (Map 4). The limestone unit pinches out to the SE where it appears to be structurally truncated. The unit corresponds to a line of drainage including sink holes and fresh rock was mapped only around the several farm dams which have been developed along the corridor. Most of the limestone underlies a thin flat lying blanket of Permian mudstone.

Approximately 1 km NW of the EL boundary, the limestone outcrops and bedding dips at 50° towards the ENE. The limestone within EL 19/97 is a strike extension of the Flowery Gully Limestone.

3) Pink to greenish grey cleaved siltstones, in part phyllitic, were mapped in two sectors within the EL (Map 4). The siltstones are distinctively bioturbated and contain oxidised porous zones of low density residue from

carbonate dissolution. At three sites (Map 3) small (0.5-2 cm) ribbed orthid-like brachiopods were recovered and have been sent to John Laurie, AGSO, for identification. At the time of writing a preliminary examination suggests the fossils are Lower Ordovician and belong to the Cabbage Tree Formation (Laurie, 1996(a) and (b)).

At Beaconsfield, orthid brachiopods are used in core logging as stratigraphic markers for Lower Transition Beds sandstone and the calc siltstones are mainly confined to the stratigraphically higher Upper Transition Beds (P. Hills, pers. comm. 1998).

4) Generally NE dipping quartz sandstones are interstratified with the siltstones described in 3) but are independently assigned to the Cabbage Tree Formation Lower Transition Beds on the basis of quartz lithic granule and pebble interbeds. The sandstones are typically thickly bedded (0.5 - 2 metres), well sorted and form topographic strike ridges. Secondary silicification has overprinted much of the primary textures, at least in outcrop where the rocks are aptly described as orthoquartzites. The secondary silica is commonly grey-blue colour. Quartz veining and veinlet stockworking, brecciation and laminar fabric occur locally within the sandstone near major faults (Maps 3 and 4)

The existence of apparently conformable NE dipping interstratified Cabbage Tree Formation calc siltstones and quartz sandstones in EL 19/97 suggests intra Cabbage Tree facies change along strike. Synclinal folding could explain the distribution of siltstone and sandstone units but where bedding was observed in the field a conformable NE dipping sequence is indicated. The only outcrop dipping west is a fault bounded sandstone body (487,200mE, 5,328,400mN - see Map 4).

In addition to the major magnetic highs discussed previously, a major NW-SE trending photo linear corresponding to a drainage corridor is recognised at the Corn Hill Beds - Flowery Gully Limestone contact in the central NW corner of the EL. This feature was extended along strike to the SE and interpreted as a thrust fault after the drilling of WDH-1 (to be discussed later in this report) confirmed stratigraphic reversal of Cabbage Tree Formation sandstone and Flowery Gully Limestone.

The NE dipping thrust appears to be disconformable at a low angle with the footwall limestone, as the limestone unit is thinning to the SE. In the overthrust block a series of NE trending faults juxtapose the Corn Hill Beds against the Cabbage Tree Formation.

In the Pentlands Road area, within EL 20/94, east dipping Cabbage Tree Formation sandstone overlies subcropping black slates. The basal sandstones exhibit tectonite fabric and the contact is interpreted as a thrust, parallel to and 1 km NE of the "Winkleigh Thrust". The "Pentlands Road Thrust" is on trend with the post Jurassic normal fault in the SE of the EL, suggesting reactivation of Devonian structures. On a larger scale, Devonian thrusts penetrating deep into the crust have probably controlled the position of Jurassic dolerite intrusions and Cainozoic graben development along the Tamar Valley.

The distribution of mapped Cabbage Tree Formation rocks in two sectors, separated by Permian cover in the central part of the EL (Map 4), could be explained by dextral

fault offset or monoclinial folding. A set of NE-SW trending shear structures parallel to the principal thrusting compression direction appears to have juxtaposed Corn Hill Beds against the Cabbage Tree Formation in the southern sector and could be part of the offset structure. Thrust related NE trending shears within Lower Transition Beds is essentially the structural/stratigraphic setting of the Tasmanian Reef and therefore an attractive exploration environment.

Thirty-seven composite chip samples were taken and at the time of writing, assays for 34 are available (Table 1, Appendix 1). Gold anomalies ranging from 170 - 200 ppb were achieved from three samples (WG-1, -2 and -8) taken at two sites - Pentlands Road (cf Rookery Road) and Winkleigh Road (see Map 6). At both sites the rocks are sandstone orthoquartzites, pervasively silicified, quartz veined and in part stockworked and brecciated. A characteristic is local development of a grey blue colour in the secondary silica. Both sites are interpreted as sitting in the structural hangingwall of NE dipping thrusts, near the fault subcrop position.

Similar rocks (but with less deformation) were sampled from the two road gravel quarries adjacent to Bulls Road, in the northern sector of Cabbage Tree Formation rocks. Only two samples (WG-4, -7) scored above level of detection but the results of 50 and 20 ppb Au are not considered anomalous, given that 19 hand picked composite samples were taken from the two quarries.

Arsenic shows an erratic correlation with gold. At the Winkleigh Road site very high arsenic values (965, 575 ppm) coincide with the gold anomalies but at Pentlands Road, WG-8 returned 200 ppb gold and < 1 ppm arsenic. Apart from the Winkleigh Road anomaly there is no reliable pattern in the arsenic data.

A population of results sits in the range <1 to 5 ppm and sporadic elevation to values ranging from +20 ppm to a maximum of 142 ppm occurred in 9 samples. These samples included abundant vein quartz but many of the other samples were similarly enriched in vein quartz and yet contain no arsenic.

Base metal assays were acquired on the first 9 samples only, in response to their generally inferior performance to arsenic as indicator metals for gold at Beaconsfield. A moderate lead anomaly of 269 ppm occurs in one of the Winkleigh Road anomaly samples but not the other.

A conclusion from the rock chip sampling is that several samples should be taken from every site where the rocks show any evidence of alteration or deformation which could be associated with mineralising fluids. Minor concentrations of gold can be expected in some samples of vein quartz without being related to genuine exploration anomalies.

### c) Soil Survey

Nine soil sampling traverses totaling 315 samples were completed on Cabbage Tree Formation rocks. Maps 5 and 6 show that most of the sampling followed strike ridges in an attempt to follow the sandstone/conglomerate units considered correlates of the Lower Transition Beds. Traverses A and F however act as tie lines and are close to the dip orientation. Traverses A and D extend across the EL boundary and Traverse E is entirely within the adjoining EL 20/94. These traverse locations are intentional, to

Table 1

<b>BEACONSFIELD GOLD NL - SAMPLE LOG SHEET</b>
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TENEMENT: EL 19/97 Winkleigh		SAMPLE TYPE: Rock Chip	SAMPLER: K Morrison	ASSAY METHODS				
PROJECT: Regional				DATE: September 97 to July 98	Au (ppb)- 50 g fire assay-AAS As (ppm)- digest/vapour gen - AAS Cu Pb,Zn (ppm)- digest - AAS			
ID	LOCATION	DESCRIPTION	Au		As	Cu	Pb	Zn
WG-1	487,450E 5,428,000N	blue grey orthoqtzite,qtz stockwork, brecciated, limonite and drusy qtz in vugs. O/C	170	965	14	35	37	
WG-2	487,450E 5,428,000N	A/A	190	575	11	269	4	
WG-3	486,600E 5,428,950N	blue grey orthoqtzite, minor qtz veins with limon pits. O/C	<10	86	4	13	26	
WG-4	487,200E 5,430,750N	blue grey orthoqtzite, pebble beds, silicif, veined, local breccia. O/C Bulls Quarry	50	27	12	6	8	
WG-5	487,200E 5,430,750N	A/A	<10	<1	20	<3	6	
WG-6	487,200E 5,430,750N	A/A	<10	5	20	17	11	
WG-7	486,900E 5,431,500N	blue grey wht orthoqtzite-vein qtz breccia in weathered sst/sltst. O/C Bulls Rd	20	2	2	11	7	
WG-8	486,750E 5,430,550N	blue grey orthoqtzite, veinlet stockwork, brecciated, tectonite fabric. O/C Pentlands Rd	200	<1	2	18	15	
WG-9	486,750E 5,430,550N	A/A	30	7	4	<3	7	
WG-10	486,750E 5,430,550N	A/A + Fe ox pits in vein qtz	<10	1				
WG-11	487,850E 5,428,600N	wh vein qtz in fossil sltst. Compos lag sample, Beams east Rd	<10	1				
WG-12	487,200E 5,430,750N	main west dip qtz vein. O/C Bulls Quarry	<10	<1				
WG-13	487,200E 5,430,750N	A/A + some wall rock, 10m north of -12	<10	44				
WG-14	487,200E 5,430,750N	A/A, 10m north of -13	<10	23				
WG-15	487,200E 5,430,750N	compos of smaller qtz veins in central quarry face. O/C	<10	<1				
WG-16	487,200E 5,430,750N	blue grey silicif granule conglom, abund vein qtz with vugs. O/C	<10	27				
WG-17	487,200E 5,430,750N	A/A, minor veining only	<10	1				
WG-18	487,200E 5,430,750N	wht vein qtz, abund pits Fe ox. O/C west dip	<10	142				
WG-19	487,200E 5,430,750N	compos vein qtz from quarry stockpile	<10	<1				
WG-20	487,200E 5,430,750N	compos silicif granule conglom, sst, veining, minor stockwork. Quarry stockpile	<10	<1				
WG-21	487,100E 5,431,000N	wht bleached silicif sst, vein qtz. O/C northern quarry	<10	1				
WG-22	487,100E 5,431,000N	A/A + minor blue grey granule conglom	<10	2				
WG-23	487,100E 5,431,000N	compos silicif sst, granule conglom, vein qtz. Subcrop	<10	2				
WG-24	487,100E 5,431,000N	A/A.	<10	<1				
WG-25	487,100E 5,431,000N	A/A but mainly vein qtz	<10	4				
WG-26	487,100E 5,431,000N	A/A	<10	<1				
WG-27	486,950E 5,431,650N	comp wht silicif sst, vein qtz. Stockpile at road edge east of junction	<10	<1				
WG-28	486,950E 5,433,000N	dk blue grey silisa pyr alt orthoqtzite, common oxid sulph. Road fill from shaft waste	<10	<1				



tie in with earlier ridge top soil sampling conducted by the Beaconsfield Mine Joint Venture on EL 20/94 Salisbury Hill. Traverse E successfully repeated the "Rookery Road South" arsenic anomaly generated in EL 20/94, which in turn was largely responsible for the soil survey on EL 19/97.

Samples of B/C horizon soil were taken at 20 metre spacing. Soil profiles typically ranged from podzolic to duplex and where developed over Cabbage Tree Formation sandstones, the soils typically have a thin (1-10 cm) organic rich horizon, a dominant bleached lower A horizon (10-50 cm) and weakly to moderately developed ferruginous combined B-C horizon (5-20cm) above regolith. Typically it is not possible to discriminate between B and C horizons.

Samples were taken by mattock, with an initial cut used to expose the soil profile and target the sample position, followed by an adjacent cut to take the samples. Samples were screened in the field through a 3 mm sieve and approximately 1 kg of <3mm product was retained and assayed for gold and arsenic by Analabs.

It was noted that polymict lithic pebbles and grit were commonly encountered on the surface and in the surficial soil materials and these are interpreted as lag detritus from the weathering of Permian pebbly mudstone, which formerly covered all of the pre Permian rocks currently exposed in the EL.

Assay data are attached in Appendix 1 and summarised on Maps 5 and 6. Gold geochemistry (Map 5) shows very little character, with all samples scoring < 5 ppb. The highest concentration of values above level of detection is in the central part of Traverse B whereas on Traverse F, all samples scored below level of detection. No useful conclusions can be made from these data.

Arsenic geochemistry (Map 6) shows two anomalous sites (Rookery Road South and Winkleigh Road) which coincide with the rock chip anomalies discussed in the previous section. The anomalies are arbitrarily defined as those samples scoring 40-90 ppm arsenic, against a background with the majority of samples scoring < 10 ppm arsenic. In general, soils over the southern sector of Cabbage Tree Formation rocks appear to contain more arsenic than in the northern sector.

A possible explanation for the lack of gold encountered in this survey is the dilution or contamination effect of the soil component derived from weathered Permian rocks. This theory requires that arsenic is sufficiently abundant in the Cabbage Tree Formation sandstones and sufficiently mobile in the overlying soil to produce coherent anomalies.

Any further soil work on the EL will endeavour to auger samples deeper into the soil profile to avoid the Permian detritus

#### d) Drilling

In May 1998 a 60 metre vertical RC percussion drill hole (WDH-1) was completed on the site of the Winkleigh Road soil/rock chip anomaly. The hole was collared on Cabbage Tree Formation sandstone and intersected Flowery Gully Limestone at 43 metres. The contact appears to be faulted, with a minor pyrite increase in the

structural hanging wall and calcite > quartz veining in the foot wall. If the Cabbage Tree pick is correct the fault must be a thrust, as the stratigraphy is reversed. The structure dips to the NE and the surface anomaly site is close to the Cabbage Tree-Flowery Gully contact.

Composite two metre sample splits for the total hole were assayed by Analabs but no significant gold is present. Only one sample scored above level of detection (8-10 metres = 20 ppb Au), suggesting slight supergene concentration at the base of oxidation (Figure 2, Table 2).

Arsenic shows an erratic enrichment within the fresh Cabbage Tree Formation sandstones, with several samples between base oxidation and the limestone contact scoring > 100 ppm. It was also noted that the Ti/Zr ratio increased markedly along with the visible pyrite content and water flow (?fracturing) some 8-10 metres above the thrust contact.

#### e) Expenditure

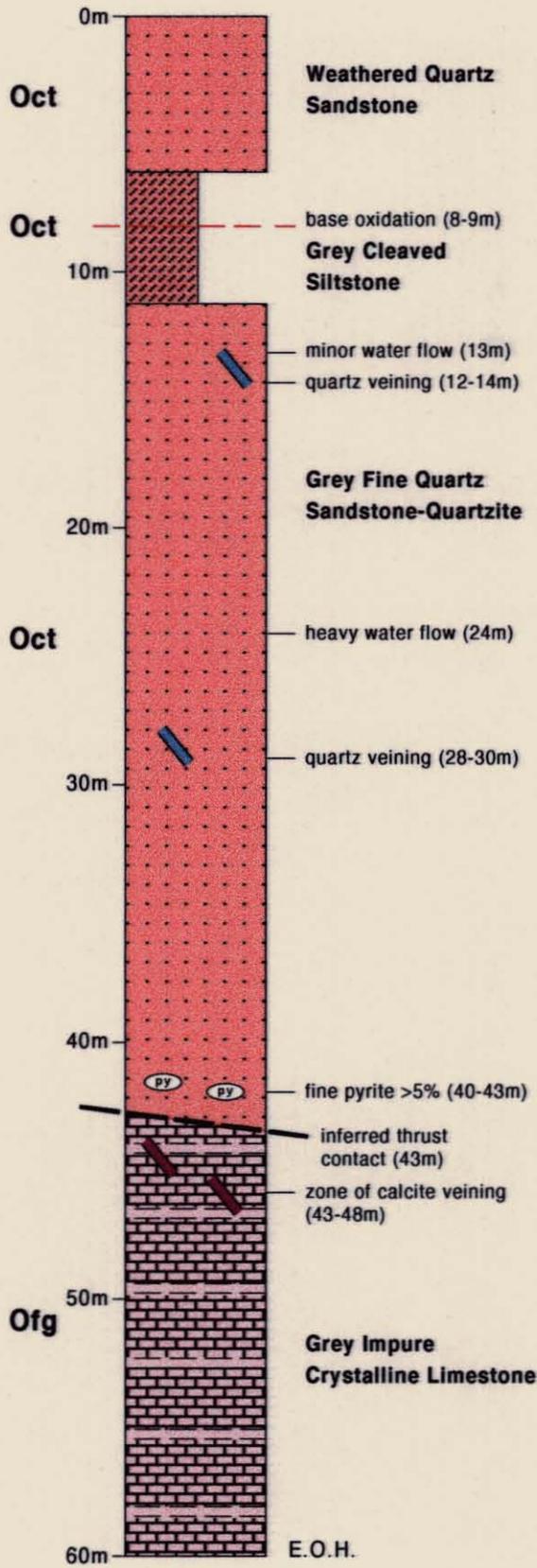
Total exploration expenditure from 19 September 1997 to 30 June 1998 was \$41,315, of which 12% was spent on drilling. Because of the timing of reporting requirements and the fact that the licence year and the financial year do not coincide, documented expenditure in Year 1 represents less than 10 months exploration activity. This discrepancy will correct itself in the licence Year 2 and in all future Annual Reports, where expenditure statements will relate to the 12 months ending on 30 June.

#### f) Conclusions

Although no gold mineralisation was encountered in WDH-1, there is reasonable evidence that weakly mineralised fluids have permeated the sandstones above the thrust. This interpretation is consistent with the position and nature of the surface anomalies and consequently there remains potential for mineralisation within the plane of the thrust or within NE-SW trending structures parallel to the principal compressional direction.

Current underground mapping at Beaconsfield is revealing 1 cm wide quartz veins grading approximately 2 ppm gold at distances of <100 metres from the Tasmania Reef (G McDonald, pers. comm., 1998).

If these veins are diluted by sequential cracking and the inflow of barren silica, then a vein of 1 metre @ 20 ppb gold can easily be formed. This concept can explain the magnitude and style of the rock chip anomalies at Winkleigh and Pentlands Road. Exploration of the Winkleigh thrust system will be the priority of the Year 2 work program on EL 19/97.



	Au ppb	As ppm	Ti ppm	Zr ppm	Ti / Zr		
	<10	32	4225	221	19.1		
	<10	90	4178	190	22.0		
	<10	25	4170	180	23.2		
	<10	82	4290	211	20.3		
	20	130	4439	314	14.1		
	<10	63	3063	248	12.4		
	<10	89	2442	434	5.6		
	<10	12	2513	421	6.0		
	<10	13	2477	429	5.8		
	<10	16	2663	616	4.3		
	<10	206	2451	501	4.9		
	<10	151	1743	249	7.0		
	<10	179	1908	309	6.2		
	<10	106	1960	329	6.0		
	<10	66	2066	330	6.3		
	<10	83	2094	254	8.2		
	<10	77	1985	245	8.1		
	<10	219	2315	199	11.6		
	<10	182	2201	213	10.3		
	<10	46	2404	208	11.6		
	<10	62	2327	201	11.6		
	<10	53	1892	136	13.9		
	<10	41	1805	72	25.1		
	<10	10	922	46	20.0		
	<10	13	856	44	19.5		
	<10	21	1146	52	22.0		
	<10	2	1064	51	20.9		
	<10	5	1073	47	22.8		
	<10	7	1182	52	22.7		
	<10	6	1241	57	21.8		

Hole ID: WDH-1  
 Type: 4 3/4" RC Percussion  
 Collar Co-ords: 487 460 E, 5428 030 N  
 Angle of Dip: -90°

**Fig 2**

<b>BEACONSFIELD GOLD N L</b>			
<b>EL 19/97 WINKLEIGH</b>			
<b>Drill Log WDH-1</b>			
Author: K.C.Morrison	Drafting: R.Carroll	Date: 8.7.98	Scale: as shown

Table 2

**BEACONSFIELD GOLD NL - RC PERCUSSION DRILL LOG**

Tenement: EL 19/97  
 Prospect: Regional  
 Hole No: WDH-1  
 Date Drilled: 18-20 May 1998  
 Drilled by: Stacpoole

Collar Location : 487,460E 5,428,030N  
 RL :  
 AZM : vertical  
 DIP : -90  
 Hole Diam: 4.75 inch

Total Depth: 60 metres  
 Water Table: 24 metres (minor water at 13m)  
 Base of Oxid'n: 8-9 metres  
 Sample No's: WDH-1 0-2 to 58-60  
 Geologist: K Morrison

DEPTH(m)	LITHO	UNIT	DESCRIPTION	ASSAYS (ppm) (Au-ppb)				
				Au	As	Ti	Zr	Ti/Zr
0 - 2	Regolith	Quat	yell brn clay, Pm mdst & qtz pebble frags. 6 inch hammer	<10	32	4225	221	19.1
2 - 4	Sandstone	Oct	regolith A/A & oxid friable qtz sd, grey orthoqtzite	<10	90	4178	190	22.0
4 - 6	Sandstone	Oct	A/A + minor oxid sltst. 4.6m PVC collar then 4.75 inch hammer	<10	25	4170	180	23.2
6 - 8	Siltstone	Oct	grey, yell brn part oxid cleaved sltst, cly, sd	<10	82	4290	211	20.3
8 - 10	Siltstone	Oct	A/A, base oxid 8-9m	20	130	4439	314	14.1
10 - 12	Siltstone	Oct	grey partly phyllitic cleaved sltst, minor vf qtz sst	<10	63	3063	248	12.4
12 - 14	Sandstone	Oct	slightly weathered f qtz sst, vein qtz 12-13m, tr pyrite, minor water	<10	89	2442	434	5.6
14 - 16	Sandstone	Oct	grey fresh f qtz sst, tr white mica, tr py	<10	12	2513	421	6.0
16 - 18	Sandstone	Oct	A/A	<10	13	2477	429	5.8
18 - 20	Sandstone	Oct	A/A	<10	16	2663	616	4.3
20 - 22	Sandstone	Oct	grey fresh blocky f qtz sst-orthoqtzite, tr dissem py, wh mica	<10	206	2451	501	4.9
22 - 24	Sandstone	Oct	A/A + pitted v qtz. broken ground. Heavy water flow 24m	<10	151	1743	249	7.0
24 - 26	Sandstone	Oct	grey fresh orthoqtzite, blocky hard chips, tr dissem py, wh mica	<10	179	1908	309	6.2
26 - 28	Sandstone	Oct	A/A + 10% clean wh v qtz	<10	106	1960	329	6.0
28 - 30	Sandstone	Oct	A/A + minor blebs py	<10	66	2066	330	6.3
30 - 32	Sandstone	Oct	grey fresh f qtz sst-orthoqtzite, minor wh mica, tr dissem py	<10	83	2094	254	8.2

520015



**YEAR 2 WORK PROGRAM AND BUDGET**

Regional scale work will concentrate on improving our understanding of the fault styles associated with known mineralisation north of EL 19/97 and exploration anomalies within the EL. Further imagery and interpretation of the 1988 aeromagnetic data will be compared with the detailed helimag and ground magnetics currently in progress at Beaconsfield, with the aim to define a magnetics readable structural signature over the Tasmania Reef.

At the prospect scale, the priority is to follow up the Winkleigh Road anomaly and its associated thrust structure. A program of basal soil sampling on lines oriented in the thrust dip direction will be conducted in September 1998 and any reasonable *geochemical anomalies will be drilled during Year 2.*

Ground magnetics will be tried at Winkleigh if convincing results are achieved from the Beaconsfield survey.

Year 2 cost estimates are tabled below.

**Definite**

Regional magnetics/structure study	\$10,000
Winkleigh soil survey	\$7,000

**Contingent on results of above**

Winkleigh ground magnetics survey	\$5,000
Winkleigh drilling (assume 2 x 150 DDHs)	\$30,000

**Definite**

Reporting, tenement management	\$5,000
--------------------------------	---------

**Totals**

<b>Definite</b>	<b>\$22,000</b>
<b>Definite + Contingent</b>	<b>\$57,000</b>

**REFERENCES**

- Gee, RD and Legge, JJ, 1971. Geological atlas 1:63,360 series, sheet 30 (8215N), Beaconsfield (Department of Mines, Tasmania: Hobart).
- Guilline, AB, Bravo, AP and Naqvi, IH, 1973. Geological atlas 1:63,360 series, sheet 38 (8215S), Frankford (Department of Mines, Tasmania: Hobart).
- Hicks, J, 1989. EL 7/88 Exploration Report for the period October 1987 to January 1989, Beaconsfield Gold Mines Ltd; Beaconsfield Operations Pty Ltd 1989 (TRC 89-3011).
- Hills, PB, 1982. The geology of the Lower and Middle Palaeozoic rocks of Flowery Gully, Northern Tasmania, BSc Honours thesis (unpublished), University of Tasmania, Hobart.
- Hills, PB, 1998. Tasmanian gold deposits, Beaconsfield, in *Geology of Australian and Papua New Guinean Mineral Deposits* (Eds: DA Berkman and DH MacKenzie), pp 467-472 (The Australian Institute of Mining and Metallurgy: Melbourne).
- Laurie, JR, 1996a. Macrofossils from the Cabbage Tree Formation, Middle Arm Gorge, near Beaconsfield, Tasmania, Australian Geological Survey Organisation Professional Opinion 1996/008 (unpublished).
- Laurie, JR, 1996b. Correlation of Lower-Middle Ordovician clastics in Tasmania, Australian Geological Survey Organisation Record, 1996/23 (unpublished).
- McClenaghan, MP, 1997. Digital geological atlas 1:25,000 series, sheet 4843 Beaconsfield (Mineral Resources Tasmania: Hobart).
- McIntosh-Reid, A, 1925. Report on the alleged discovery of gold at Loira and Rookery (Winkleigh), in Mines Department annual report to State Government, Hobart 1925 (unpublished).
- Scott, JB, 1928. Notes on Nevilles Prospect Winkleigh, in Mines Department annual report to State Government, Hobart 1928 (unpublished).

# **APPENDIX 1**

**Rock Chip, Soil and Drilling Assay Data**

526020

A N A L A B S



Our reference : BU013960  
Your reference : Ken Morrison  
Project code : Rock Chip  
Date received : 17/11/97  
Date reported : 23/11/97

**Analabs Pty. Ltd.**  
ACN 004 591 664  
14 Thirkell St, Burnie  
Tasmania 7320  
Telephone : (004) 31 6837  
Facsimile : (004) 31 8890

Ken Morrison  
Geological Exploration

Number of pages of results : 2  
Number of Samples : 9  
First Sample : WG-1  
Last Sample : WG-9

Invoice to:  
Ken Morrison  
Geological Exploration

Electronic Data Transmission :  
Modem //  
Facsimile //  
Disk Report //

Preliminary Reports :  
20/11/97 Report

Results to:

Results to:

Remarks :

Authorised by .....  
On behalf of:

Richard Newman  
Laboratory Manager

The results in the following analytical report pertain to the samples provided to this laboratory for preparation and/or analysis as requested by the client.







## ANALYSIS DESCRIPTION

Job number : BU013960 Order number : Ken Morrison

-----  
Scheme code : S033 - Drillcore/Rock; Dry, Jaw crush, Fine pulv, Ring

-----  
Sample preparation. Drillcore, Rock samples; Dry,  
Jaw crush, Fine pulverise, Ringmill, <3.5kg

-----  
Scheme code : F650 - 50g fire assay, Lead collection, AAS

-----  
Fire assay, Lead collection, Aqua Regia digest,  
AAS, 50g sample.

-----  
Scheme code : G101 - Perchloric acid digest, Geochemical samples

-----  
Perchloric acid digest, (HClO<sub>4</sub>), Geochemical  
samples

-----  
Scheme code : A101 - AAS analysis

-----  
AAS analysis of sample after G101 digest.

-----  
Scheme code : H101 - Hydride AAS analysis

-----  
Hydride AAS analysis after G101 leach.



## A N A L A B S

Our reference : BU014404  
 Your reference : Ken Morrison  
 Project code : Rock Chip  
 Date received : 09/03/98  
 Date reported : 22/03/98

**Analabs Pty. Ltd.**  
 ACN 004 591 664  
 14 Thirkell St, Burnie  
 Tasmania 7320  
 Telephone : (004) 31 6837  
 Facsimile : (004) 31 8890

Ken Morrison  
 Managing geologist  
 K.C. Morrison Pty Ltd  
 Beaconsfield Gold NL  
 41 Tasma Street  
 North Hobart

TAS 7000

Number of pages of results : 1  
 Number of Samples : 24  
 First Sample : WG10  
 Last Sample : WG33

Invoice to:  
 Ken Morrison  
 Managing geologist  
 K.C. Morrison Pty Ltd  
 Beaconsfield Gold NL  
 41 Tasma Street  
 North Hobart

TAS 7000

Electronic Data Transmission :  
 Modem Y 22/03/98  
 Facsimile / /  
 Disk Report Y / /

Preliminary Reports :  
 12/03/98 Report

Results to:

Results to:

Remarks : Chromium values reported herein have variable levels contributed by the pulverising bowls. Testwork indicates that the bowls each contaminate to varying degrees, the magnitude for each bowl dependent on the size of the sample and the time taken to pulverise. Contamination ranged from 26ppm Cr to 162ppm Cr.  
 Sincerest apologies.  
 Regards  
 Richard

Authorised by .....  
 On behalf of:

Richard Newman  
 Laboratory Manager

The results in the following analytical report pertain to the samples provided to this laboratory for preparation and/or analysis as requested by the client.



Our reference : BU014404  
 Your reference : Ken Morrison  
 Project code : Rock Chip  
 Report date : 22/03/98  
 Report status : Final  
 Page : 1 of 1

Analabs Pty. Ltd.  
 ACN 004 591 664  
 14 Thirkell St, Burnie  
 Tasmania 7320  
 Telephone : (004) 31 6837  
 Facsimile : (004) 31 8890

### ANALYTICAL DATA

Sample	Au	Au(R)	Au(R2)	Cr	As
WG10	<0.01	<0.01	<0.01	245	1
WG11	<0.01	<0.01	<0.01	476	1
WG12	<0.01	<0.01	--	240	<1
WG13	<0.01	<0.01	--	341	44
WG14	<0.01	<0.01	--	35	23
WG15	<0.01	<0.01	--	461	<1
WG16	<0.01	<0.01	<0.01	90	27
WG17	<0.01	<0.01	--	401	1
WG18	<0.01	<0.01	0.01	27	142
WG19	<0.01	<0.01	--	318	<1
WG20	<0.01	0.01	0.01	48	<1
WG21	<0.01	<0.01	<0.01	543	1
WG22	<0.01	<0.01	<0.01	33	2
WG23	<0.01	<0.01	--	597	2
WG24	<0.01	<0.01	--	45	<1
WG25	<0.01	<0.01	<0.01	620	4
WG26	<0.01	<0.01	--	32	<1
WG27	<0.01	<0.01	--	453	<1
WG28	<0.01	<0.01	<0.01	69	<1
WG29	<0.01	0.02	0.01	441	12
WG30	<0.01	0.01	--	1185	63
WG31	<0.01	<0.01	<0.01	336	6
WG32	<0.01	<0.01	--	47	30
WG33	<0.01	<0.01	0.01	185	61
Method	F650	F650	F650	A101	H101
Units	ppm	ppm	ppm	ppm	ppm
Detection Limit	0.01	0.01	0.01	5	1
Upper Method					A101

Notes: N.A. = not analysed, -- = element not determined, I.S. = insufficient sample, L.N.R. = listed not received



## ANALYSIS DESCRIPTION

Job number : BU014404 Order number : Ken Morrison

-----  
Scheme code : S005 - Jaw Crushing to nominal 6mm to 12mm  
-----

Sample preparation. Jaw crushing to nominal 6mm to 12mm.

-----  
Scheme code : S009 - Sample volume reduction - riffle split  
-----

Sample preparation. Sample volume reduction - riffle split.

-----  
Scheme code : S022 - Dry, Ringmill 1.5kg to 3.5kg  
-----

Sample preparation. Dry, Ringmill. 1.5kg to 3.5kg.

-----  
Scheme code : F650 - 50g fire assay, Lead collection, AAS  
-----

Fire assay, Lead collection, Aqua Regia digest, AAS, 50g sample.

-----  
Scheme code : G101 - Perchloric acid digest, Geochemical samples  
-----

Perchloric acid digest, (HClO<sub>4</sub>), Geochemical samples

-----  
Scheme code : A101 - AAS analysis  
-----

AAS analysis of sample after G101 digest.

-----  
Scheme code : H101 - Hydride AAS analysis  
-----

Hydride AAS analysis after G101 leach.

-----  
Scheme code : A102 - AAS analysis  
-----

AAS analysis of sample after G102 digest.



Our reference : BU014050  
Your reference : KCMorrison  
Project code : Soils  
Date received : 05/12/97  
Date reported : 18/12/97

**Analabs Pty. Ltd.**  
ACN 004 591 664  
14 Thirkell St, Burnie  
Tasmania 7320  
Telephone : (004) 31 6837  
Facsimile : (004) 31 8890

Ken Morrison  
Managing geologist  
K.C. Morrison Pty Ltd  
Beaconsfield Gold NL  
41 Tasma Street  
North Hobart  
  
TAS 7000

Number of pages of results : 8  
Number of Samples : 181  
First Sample : WSA 1  
Last Sample : WSD 28

Invoice to:  
Ken Morrison  
Managing geologist  
K.C. Morrison Pty Ltd  
Beaconsfield Gold NL  
41 Tasma Street  
North Hobart  
  
TAS 7000

Electronic Data Transmission :  
Modem Y 18/12/97  
Facsimile / /  
Disk Report Y / /

Results to:

Results to:

Remarks :

Authorised by .....  
On behalf of:

Richard Newman  
Laboratory Manager

The results in the following analytical report pertain to the samples provided to this laboratory for preparation and/or analysis as requested by the client.



Our reference : BU014050  
 Your reference : KCMorrison  
 Project code : Soils  
 Report date : 18/12/97  
 Report status : Final  
 Page : 1 of 8

**Analabs Pty. Ltd.**  
 ACN 004 591 664  
 14 Thirkell St, Burnie  
 Tasmania 7320  
 Telephone : (004) 31 6837  
 Facsimile : (004) 31 8890

### ANALYTICAL DATA

Sample	Au	Au(R)	As		
WSA 1	<1	--	<1		
WSA 2	<1	--	1		
WSA 3	<1	--	3		
WSA 4	<1	--	4		
WSA 5	<1	--	3		
WSA 6	<1	--	<1		
WSA 7	<1	--	1		
WSA 8	<1	--	1		
WSA 9	<1	<1	<1		
WSA 10	<1	--	1		
WSA 11	<1	--	<1		
WSA 12	<1	--	<1		
WSA 13	<1	--	1		
WSA 14	<1	--	10		
WSA 15	<1	--	<1		
WSA 16	<1	--	3		
WSA 17	<1	--	2		
WSA 18	<1	<1	1		
WSA 19	<1	<1	16		
WSA 20	1	--	8		
WSA 21	<1	--	<1		
WSA 22	<1	--	5		
WSA 23	<1	--	1		
WSA 24	<1	--	<1		
WSA 25	<1	--	2		
WSA 26	<1	--	7		
WSA 27	<1	--	3		
WSA 28	<1	--	5		
WSA 29	<1	--	8		
WSA 30	<1	--	5		
WSA 31	1	--	7		
WSA 32	1	--	3		
WSA 33	<1	--	4		
WSA 34	<1	<1	3		
WSA 35	1	--	6		
WSA 36	<1	--	2		
WSA 37	<1	<1	2		
WSA 38	<1	<1	5		
WSA 39	1	--	6		
WSA 40	1	--	1		
WSA 41	<1	--	5		
WSA 42	1	--	1		
WSA 43	1	--	7		
WSB 1	<1	--	<1		
WSB 2	<1	--	1		
WSB 3	<1	--	<1		
WSB 4	<1	--	1		
WSB 5	<1	--	1		
WSB 6	<1	--	2		
WSB 7	<1	--	<1		
Method	F614	F614	H102		
Units	ppb	ppb	ppm		
Detection Limit	1	1	1		

Notes: N.A. = not analysed, -- = element not determined, I.S. = insufficient sample, L.N.R. = listed not received



Our reference : BU014050  
 Your reference : KCMorrison  
 Project code : Soils  
 Report date : 18/12/97  
 Report status : Final  
 Page : 2 of 8

Analabs Pty. Ltd.  
 ACN 004 591 664  
 14 Thirkell St, Burnie  
 Tasmania 7320  
 Telephone : (004) 31 6837  
 Facsimile : (004) 31 8890

### ANALYTICAL DATA

Sample	Au	Au(R)	As			
WSB 8	<1	--	1			
WSB 9	<1	--	<1			
WSB 10	1	--	4			
WSB 11	1	--	14			
WSB 12	<1	--	<1			
WSB 13	<1	--	2			
WSB 14	1	<1	<1			
WSB 15	2	1	2			
WSB 16	1	1	<1			
WSB 17	<1	--	1			
WSB 18	1	--	1			
WSB 19	1	--	1			
WSB 20	2	<1	3			
WSB 21	<1	--	2			
WSB 22	1	--	3			
WSB 23	<1	--	3			
WSB 24	<1	--	<1			
WSB 25	1	--	4			
WSB 26	3	<1	1			
WSB 27	2	--	3			
WSB 28	2	--	<1			
WSB 29	4	3	5			
WSB 30	3	1	9			
WSB 31	2	--	4			
WSB 32	2	--	3			
WSB 33	2	2	2			
WSB 34	2	1	2			
WSB 35	4	2	7			
WSB 36	2	1	9			
WSB 37	1	--	4			
WSB 38	<1	--	6			
WSB 39	1	--	6			
WSB 40	1	--	<1			
WSB 41	1	1	3			
WSB 42	1	--	8			
WSB 43	2	<1	<1			
WSB 44	1	--	9			
WSB 45	<1	--	9			
WSB 46	<1	--	<1			
WSB 47	1	--	<1			
WSB 48	<1	--	1			
WSB 49	<1	--	2			
WSB 50	<1	--	1			
WSB 51	2	<1	<1			
WSB 52	1	1	1			
WSB 53	1	1	5			
WSB 54	1	--	9			
WSB 55	1	--	4			
WSB 56	<1	--	6			
WSB 57	<1	--	4			
Method	F614	F614	H102			
Units	ppb	ppb	ppm			
Detection Limit	1	1	1			

Notes: N.A. = not analysed, -- = element not determined, I.S. = insufficient sample, L.N.R. = listed not received



Our reference : BU014050  
 Your reference : KCMorrison  
 Project code : Soils  
 Report date : 18/12/97  
 Report status : Final  
 Page : 3 of 8

Analabs Pty. Ltd.  
 ACN 004 591 664  
 14 Thirkell St, Burnie  
 Tasmania 7320  
 Telephone : (004) 31 6837  
 Facsimile : (004) 31 8890

### ANALYTICAL DATA

Sample	Au	Au(R)	As			
WSB 58	<1	--	2			
WSB 59	<1	--	7			
WSB 60	1	--	8			
WSC 1	1	--	5			
WSC 2	1	--	4			
WSC 3	<1	--	.1			
WSC 4	<1	--	5			
WSC 5	<1	--	4			
WSC 6	<1	<1	5			
WSC 7	<1	--	<1			
WSC 8	<1	--	<1			
WSC 9	<1	--	<1			
WSC 10	<1	--	<1			
WSC 11	<1	<1	<1			
WSC 12	<1	<1	<1			
WSC 13	<1	--	<1			
WSC 14	<1	--	<1			
WSC 15	<1	--	1			
WSC 16	1	--	<1			
WSC 17	<1	--	<1			
WSC 18	<1	--	<1			
WSC 19	<1	--	1			
WSC 20	1	--	1			
WSC 21	<1	--	2			
WSC 22	<1	--	9			
WSC 23	<1	--	1			
WSC 24	<1	--	<1			
WSC 25	<1	--	<1			
WSC 26	<1	--	1			
WSC 27	<1	--	<1			
WSC 28	<1	--	2			
WSC 29	<1	--	<1			
WSC 30	<1	--	3			
WSC 31	<1	<1	1			
WSC 32	1	--	<1			
WSC 33	1	--	<1			
WSC 34	<1	--	4			
WSC 35	<1	--	4			
WSC 36	<1	--	<1			
WSC 37	<1	--	1			
WSC 38	<1	--	<1			
WSC 39	1	--	<1			
WSC 40	<1	--	2			
WSC 41	<1	--	6			
WSC 42	2	3	<1			
WSC 43	2	1	3			
WSC 44	1	1	26			
WSC 45	<1	--	20			
WSC 46	1	--	4			
WSC 47	1	--	4			
Method	F614	F614	H102			
Units	ppb	ppb	ppm			
Detection Limit	1	1	1			

Notes: N.A. = not analysed, -- = element not determined, I.S. = insufficient sample, L.N.R. = listed not received





Our reference : BU014050  
 Your reference : KCMorrison  
 Project code : Soils  
 Report date : 18/12/97  
 Report status : Final  
 Page : 5 of 8

Analabs Pty. Ltd.  
 ACN 004 591 664  
 14 Thirkell St, Burnie  
 Tasmania 7320  
 Telephone : (004) 31 6837  
 Facsimile : (004) 31 8890

### ANALYTICAL DATA

Sample	Cu	Pb	Zn	Cr	As
WSA 1	<2	8	6	17	<50
WSA 2	<2	8	3	16	<50
WSA 3	3	5	8	47	<50
WSA 4	2	5	5	33	<50
WSA 5	3	6	5	28	<50
WSA 6	2	4	-2	7	<50
WSA 7	4	4	13	81	<50
WSA 8	2	6	5	33	<50
WSA 9	2	5	6	29	<50
WSA 10	3	<3	10	42	<50
WSA 11	6	3	11	31	<50
WSA 12	3	<3	3	9	<50
WSA 13	2	8	9	29	<50
WSA 14	5	11	26	32	<50
WSA 15	36	10	21	26	<50
WSA 16	3	7	8	20	<50
WSA 17	2	6	3	23	<50
WSA 18	4	7	11	33	<50
WSA 19	19	14	64	68	<50
WSA 20	14	12	45	56	<50
WSA 21	3	9	7	29	<50
WSA 22	3	7	9	36	<50
WSA 23	4	4	6	25	<50
WSA 24	4	7	6	29	<50
WSA 25	7	14	18	34	<50
WSA 26	6	12	25	32	<50
WSA 27	5	6	25	25	<50
WSA 28	5	6	18	39	<50
WSA 29	6	10	44	49	<50
WSA 30	7	12	16	38	<50
WSA 31	7	7	25	40	<50
WSA 32	6	13	11	32	<50
WSA 33	4	11	11	36	<50
WSA 34	4	6	5	31	<50
WSA 35	7	9	21	27	<50
WSA 36	2	4	7	21	<50
WSA 37	3	4	4	24	<50
WSA 38	4	4	14	53	<50
WSA 39	6	7	11	43	<50
WSA 40	4	14	14	52	<50
WSA 41	5	6	16	45	<50
WSA 42	4	9	11	41	<50
WSA 43	5	6	14	33	<50
WSB 1	<2	<3	7	5	<50
WSB 2	2	<3	3	8	<50
WSB 3	2	3	6	36	<50
WSB 4	2	4	<2	9	<50
WSB 5	2	4	14	46	<50
WSB 6	3	5	3	28	<50
WSB 7	2	<3	2	15	<50
Method	A102	A102	A102	A102	A102
Units	ppm	ppm	ppm	ppm	ppm
Detection Limit	2	3	2	5	50

Notes: N.A. = not analysed, -- = element not determined, I.S. = insufficient sample, L.N.R. = listed not received



Our reference : BU014050  
 Your reference : KCMorrison  
 Project code : Soils  
 Report date : 18/12/97  
 Report status : Final  
 Page : 6 of 8

Analabs Pty. Ltd.  
 ACN 004 591 664  
 14 Thirkell St, Burnie  
 Tasmania 7320  
 Telephone : (004) 31 6837  
 Facsimile : (004) 31 8890

### ANALYTICAL DATA

Sample	Cu	Pb	Zn	Cr	As
WSB 8	2	<3	3	15	<50
WSB 9	2	<3	2	25	<50
WSB 10	3	<3	2	40	<50
WSB 11	5	5	14	157	<50
WSB 12	2	7	2	17	<50
WSB 13	2	<3	4	47	<50
WSB 14	2	6	2	26	<50
WSB 15	4	10	14	78	<50
WSB 16	2	4	7	31	<50
WSB 17	2	4	7	24	<50
WSB 18	4	4	4	27	<50
WSB 19	4	7	5	54	<50
WSB 20	4	6	5	42	<50
WSB 21	2	8	4	24	<50
WSB 22	3	6	5	75	<50
WSB 23	3	5	6	44	<50
WSB 24	3	<3	7	36	<50
WSB 25	3	<3	14	103	<50
WSB 26	6	3	26	105	<50
WSB 27	5	5	14	92	<50
WSB 28	6	3	16	82	<50
WSB 29	13	4	23	111	<50
WSB 30	15	<3	30	96	<50
WSB 31	9	<3	15	70	<50
WSB 32	10	3	22	69	<50
WSB 33	22	12	92	89	<50
WSB 34	7	5	21	42	<50
WSB 35	18	8	51	74	<50
WSB 36	16	<3	36	77	<50
WSB 37	6	3	13	41	<50
WSB 38	6	3	11	44	<50
WSB 39	7	<3	15	55	<50
WSB 40	8	<3	18	53	<50
WSB 41	6	8	14	46	<50
WSB 42	6	<3	10	46	<50
WSB 43	7	<3	15	48	<50
WSB 44	9	<3	18	36	<50
WSB 45	9	<3	14	35	<50
WSB 46	5	<3	9	33	<50
WSB 47	11	<3	10	43	<50
WSB 48	5	<3	7	32	<50
WSB 49	7	4	14	38	<50
WSB 50	6	3	6	34	<50
WSB 51	9	4	21	50	<50
WSB 52	7	<3	14	38	<50
WSB 53	8	7	17	36	<50
WSB 54	11	8	19	34	<50
WSB 55	6	<3	10	39	<50
WSB 56	10	6	15	41	<50
WSB 57	11	4	21	54	<50
Method Units	A102 ppm	A102 ppm	A102 ppm	A102 ppm	A102 ppm
Detection Limit	2	3	2	5	50

Notes: N.A. = not analysed, -- = element not determined, I.S. = insufficient sample, L.N.R. = listed not received

Our reference : BU014050  
 Your reference : KCMorrison  
 Project code : Soils  
 Report date : 18/12/97  
 Report status : Final  
 Page : 7 of 8

Analabs Pty. Ltd.  
 ACN 004 591 664  
 14 Thirkell St. Burnie  
 Tasmania 7320  
 Telephone : (004) 31 6837  
 Facsimile : (004) 31 8890

**ANALYTICAL DATA**

Sample	Cu	Pb	Zn	Cr	As
WSB 58	8	<3	14	39	<50
WSB 59	9	5	17	38	<50
WSB 60	19	11	51	75	<50
WSC 1	5	<3	13	100	<50
WSC 2	5	<3	12	89	<50
WSC 3	7	<3	10	55	<50
WSC 4	3	<3	5	27	<50
WSC 5	3	<3	3	23	<50
WSC 6	4	<3	6	48	<50
WSC 7	3	<3	3	66	<50
WSC 8	4	<3	5	45	<50
WSC 9	2	<3	3	41	<50
WSC 10	3	<3	3	45	<50
WSC 11	3	3	4	44	<50
WSC 12	3	<3	2	38	<50
WSC 13	2	<3	<2	43	<50
WSC 14	4	7	3	90	<50
WSC 15	2	3	3	127	<50
WSC 16	7	7	16	468	<50
WSC 17	5	4	8	159	<50
WSC 18	3	<3	4	45	<50
WSC 19	2	<3	3	38	<50
WSC 20	2	<3	<2	57	<50
WSC 21	5	4	11	310	<50
WSC 22	5	7	8	333	<50
WSC 23	3	5	2	30	<50
WSC 24	5	6	2	40	<50
WSC 25	5	3	4	43	<50
WSC 26	2	3	2	42	<50
WSC 27	2	3	3	32	<50
WSC 28	3	<3	<2	9	<50
WSC 29	3	7	4	12	<50
WSC 30	3	6	2	10	<50
WSC 31	2	<3	<2	34	<50
WSC 32	5	9	14	135	<50
WSC 33	5	4	7	51	<50
WSC 34	8	3	10	64	<50
WSC 35	7	<3	13	65	<50
WSC 36	4	<3	8	40	<50
WSC 37	9	6	9	54	<50
WSC 38	8	6	12	64	<50
WSC 39	4	3	6	49	<50
WSC 40	8	12	18	83	<50
WSC 41	10	3	16	81	<50
WSC 42	10	16	26	205	<50
WSC 43	4	5	5	48	<50
WSC 44	12	3	20	139	<50
WSC 45	5	<3	9	57	<50
WSC 46	6	<3	4	28	<50
WSC 47	4	<3	8	44	<50
Method	A102	A102	A102	A102	A102
Units	ppm	ppm	ppm	ppm	ppm
Detection Limit	2	3	2	5	50

Notes: N.A. = not analysed, -- = element not determined, I.S. = insufficient sample, L.N.R. = listed not received



Our reference : BU014050  
 Your reference : KCMorrison  
 Project code : Soils  
 Report date : 18/12/97  
 Report status : Final  
 Page : 8 of 8

Analabs Pty. Ltd.  
 ACN 004 591 664  
 14 Thirkell St, Burnie  
 Tasmania 7320  
 Telephone : (004) 31 6837  
 Facsimile : (004) 31 8890

### ANALYTICAL DATA

Sample	Cu	Pb	Zn	Cr	As
WSC 48	7	7	12	61	<50
WSC 49	5	<3	7	29	<50
WSC 50	6	6	5	30	<50
WSD 1	5	<3	8	42	<50
WSD 2	4	<3	3	30	<50
WSD 3	5	<3	4	48	<50
WSD 4	6	3	14	70	<50
WSD 5	5	<3	10	47	<50
WSD 6	8	<3	20	62	<50
WSD 7	9	5	22	76	<50
WSD 8	6	3	15	43	<50
WSD 9	6	5	13	45	<50
WSD 10	4	<3	14	38	<50
WSD 11	5	<3	5	26	<50
WSD 12	6	<3	9	50	<50
WSD 13	7	<3	15	57	<50
WSD 14	6	<3	16	50	<50
WSD 15	7	<3	15	44	<50
WSD 16	15	8	18	73	<50
WSD 17	3	<3	10	41	<50
WSD 18	4	6	8	37	<50
WSD 19	6	4	12	59	<50
WSD 20	10	9	18	77	<50
WSD 21	5	4	14	28	<50
WSD 22	11	9	26	106	<50
WSD 23	3	5	4	35	<50
WSD 24	3	<3	2	10	<50
WSD 25	7	3	25	57	<50
WSD 26	5	6	10	39	<50
WSD 27	5	<3	12	39	<50
WSD 28	4	<3	8	27	<50
Method Units Detection Limit	A102 ppm 2	A102 ppm 3	A102 ppm 2	A102 ppm 5	A102 ppm 50

Notes: N.A. = not analysed, -- = element not determined, I.S. = insufficient sample, L.N.R. = listed not received

**ANALYSIS DESCRIPTION**

Job number : BU014050 Order number : KCMorrison

-----  
Scheme code : S033 - Drillcore/Rock; Dry, Jaw crush, Fine pulv, Ring-----  
Sample preparation. Drillcore, Rock samples; Dry,  
Jaw crush, Fine pulverise, Ringmill, <3.5kg-----  
Scheme code : F614 - 50g fire assay, Lead collection, DIBK, AAS-----  
Fire assay, Lead collection, Aqua Regia digest,  
DIBK extraction, AAS, 50g sample.-----  
Scheme code : G102 - Triple acid digest, Geochemical samples-----  
Triple acid digest, (HCl, HNO<sub>3</sub>, HClO<sub>4</sub>), Geochemical  
samples.-----  
Scheme code : A102 - AAS analysis-----  
AAS analysis of sample after G102 digest.-----  
Scheme code : H102 - Hydride AAS analysis-----  
Hydride AAS analysis after G102 digest.



Our reference : BU014260  
 Your reference : Ken Morrison 3/2/98  
 Project code : Soils  
 Date received : 03/02/98  
 Date reported : 10/02/98

**Analabs Pty. Ltd.**  
 ACN 004 591 664  
 14 Thirkell St, Burnie  
 Tasmania 7320  
 Telephone : (004) 31 6837  
 Facsimile : (004) 31 8890

Ken Morrison  
 Managing geologist  
 K.C. Morrison Pty Ltd  
 Beaconsfield Gold NL  
 41 Tasma Street  
 North Hobart

TAS 7000

Number of pages of results : 1  
 Number of Samples : 39  
 First Sample : WSE 1  
 Last Sample : WSF 22

Invoice to:  
 Ken Morrison  
 Managing geologist  
 K.C. Morrison Pty Ltd  
 Beaconsfield Gold NL  
 41 Tasma Street  
 North Hobart

TAS 7000

Electronic Data Transmission :  
 Modem Y 10/02/98  
 Facsimile / /  
 Disk Report Y / /

Results to:

Results to:

Remarks :

Authorised by .....  
 On behalf of:

Richard Newman  
 Laboratory Manager

The results in the following analytical report pertain to the samples provided to this laboratory for preparation and/or analysis as requested by the client.



Our reference : BU014260  
 Your reference : Ken Morrison 3/2/98  
 Project code : Soils  
 Report date : 10/02/98  
 Report status : Final  
 Page : 1 of 1

Analabs Pty. Ltd.  
 ACN 004 591 664  
 14 Thirkell St, Burnie  
 Tasmania 7320  
 Telephone : (004) 31 6837  
 Facsimile : (004) 31 8890

### ANALYTICAL DATA

Sample	Au	Au(R)	As			
WSE 1	2	3	<1			
WSE 2	1	--	9			
WSE 3	<1	--	2			
WSE 4	<1	<1	2			
WSE 5	1	--	9			
WSE 6	<1	<1	2			
WSE 7	<1	--	5			
WSE 8	<1	--	50			
WSE 9	2	2	94			
WSE 10	<1	<1	<1			
WSE 11	<1	--	2			
WSE 12	<1	<1	<1			
WSE 13	<1	--	<1			
WSE 14	<1	--	<1			
WSE 15	<1	--	7			
WSE 16	<1	--	1			
WSE 17	<1	--	5			
WSF 1	<1	--	7			
WSF 2	<1	--	4			
WSF 3	<1	--	6			
WSF 4	<1	--	7			
WSF 5	<1	--	6			
WSF 6	<1	--	4			
WSF 7	<1	--	7			
WSF 8	<1	--	20			
WSF 9	<1	--	15			
WSF 10	<1	--	25			
WSF 11	<1	--	10			
WSF 12	<1	--	2			
WSF 13	<1	--	5			
WSF 14	<1	--	3			
WSF 15	<1	--	13			
WSF 16	<1	--	40			
WSF 17	<1	--	36			
WSF 18	<1	--	43			
WSF 19	<1	--	40			
WSF 20	<1	--	8			
WSF 21	<1	--	46			
WSF 22	<1	--	19			
Method Units Detection Limit	F614 ppb 1	F614 ppb 1	H102 ppm 1			

Notes: N.A. = not analysed, -- = element not determined, I.S. = insufficient sample, L.N.R. = listed not received



## ANALYSIS DESCRIPTION

Job number : BU014260 Order number : Ken Morrison 3/2/98

-----  
Scheme code : S002 - Drying  
-----

Sample preparation. Drying.

-----  
Scheme code : S021 - Dry, Ringmill 500g to 1.5kg  
-----

Sample preparation. Dry, Ringmill. 500g to 1.5kg.

-----  
Scheme code : F614 - 50g fire assay, Lead collection, DIBK, AAS  
-----

Fire assay, Lead collection, Aqua Regia digest,  
DIBK extraction, AAS, 50g sample.

-----  
Scheme code : G102 - Triple acid digest, Geochemical samples  
-----

Triple acid digest, (HCl,HNO3,HClO4), Geochemical  
samples.

-----  
Scheme code : H102 - Hydride AAS analysis  
-----

Hydride AAS analysis after G102 digest.

526040



A N A L A B S

Our reference : BU014527  
Your reference : Ken Morrison 3/4/98  
Project code : Soils  
Date received : 07/04/98  
Date reported : 17/04/98

**Analabs Pty. Ltd.**  
ACN 004 591 664  
14 Thirkell St, Burnie  
Tasmania 7320  
Telephone : (004) 31 6837  
Facsimile : (004) 31 8890

Ken Morrison  
Managing geologist  
K.C. Morrison Pty Ltd  
Beaconsfield Gold NL  
41 Tasma Street  
North Hobart  
  
TAS 7000

Number of pages of results : 2  
Number of Samples : 95  
First Sample : WSG 1  
Last Sample : WSI 28

Invoice to:  
Ken Morrison  
Managing geologist  
K.C. Morrison Pty Ltd  
Beaconsfield Gold NL  
41 Tasma Street  
North Hobart  
  
TAS 7000

Electronic Data Transmission :  
Modem Y 17/04/98  
Facsimile / /  
Disk Report Y / /

Preliminary Reports :  
16/04/98 Report

Results to:

Results to:

Remarks :

Authorised by .....  
On behalf of:

Richard Newman  
Laboratory Manager

The results in the following analytical report pertain to the samples provided to this laboratory for preparation and/or analysis as requested by the client.



Our reference : BU014527  
 Your reference : Ken Morrison 3/4/98  
 Project code : Soils  
 Report date : 17/04/98  
 Report status : Final  
 Page : 1 of 2

**Analabs Pty. Ltd.**  
 ACN 004 591 664  
 14 Thirkell St, Burnie  
 Tasmania 7320  
 Telephone : (004) 31 6837  
 Facsimile : (004) 31 8890

### ANALYTICAL DATA

Sample	Au	Au(R)	As			
WSG 1	3	2	4			
WSG 2	1	--	4			
WSG 3	<1	--	2			
WSG 4	<1	--	5			
WSG 5	1	--	6			
WSG 6	<1	--	2			
WSG 7	<1	--	1			
WSG 8	<1	--	1			
WSG 9	<1	<1	5			
WSG 10	<1	--	<1			
WSG 11	<1	--	<1			
WSG 12	<1	--	2			
WSG 13	<1	--	7			
WSG 14	<1	--	2			
WSG 15	<1	<1	2			
WSG 16	<1	1	9			
WSG 17	<1	--	28			
WSG 18	<1	<1	1			
WSG 19	<1	<1	3			
WSG 20	<1	--	<1			
WSG 21	<1	--	3			
WSG 22	<1	--	3			
WSG 23	<1	--	1			
WSG 24	<1	--	2			
WSG 25	<1	--	5			
WSG 26	<1	--	3			
WSG 27	1	<1	4			
WSG 28	<1	--	2			
WSG 29	<1	--	1			
WSG 30	<1	--	7			
WSG 31	<1	--	2			
WSG 32	2	1	1			
WSG 33	1	2	3			
WSG 34	2	2	3			
WSG 35	2	--	17			
WSH 1	<1	--	2			
WSH 2	<1	<1	3			
WSH 3	<1	--	30			
WSH 4	<1	--	13			
WSH 5	<1	--	2			
WSH 6	<1	--	7			
WSH 7	<1	1	14			
WSH 8	<1	--	4			
WSH 9	<1	--	10			
WSH 10	<1	--	11			
WSH 11	<1	--	9			
WSH 12	<1	--	7			
WSH 13	<1	--	8			
WSH 14	2	--	3			
WSH 15	2	2	2			
Method Units Detection Limit	F614 ppb 1	F614 ppb 1	H102 ppm 1			

Notes: N.A. = not analysed, -- = element not determined, I.S. = insufficient sample, L.N.R. = listed not received



Our reference : BU014527  
 Your reference : Ken Morrison 3/4/98  
 Project code : Soils  
 Report date : 17/04/98  
 Report status : Final  
 Page : 2 of 2

Analabs Pty. Ltd.  
 ACN 004 591 664  
 14 Thirkell St, Burnie  
 Tasmania 7320  
 Telephone : (004) 31 6837  
 Facsimile : (004) 31 8890

### ANALYTICAL DATA

Sample	Au	Au(R)	As			
WSH 16	1	--	5			
WSH 17	<1	--	8			
WSH 18	<1	--	16			
WSH 19	<1	--	16			
WSH 20	<1	--	21			
WSH 21	<1	--	16			
WSH 22	<1	<1	9			
WSH 23	<1	<1	9			
WSH 24	1	<1	6			
WSH 25	<1	<1	1			
WSH 26	<1	1	34			
WSH 27	2	--	8			
WSH 28	1	--	10			
WSH 29	1	--	6			
WSH 30	3	2	2			
WSH 31	<1	--	11			
WSH 32	2	3	15			
WSI 1	2	3	11			
WSI 2	3	3	29			
WSI 3	<1	--	10			
WSI 4	<1	--	16			
WSI 5	2	3	18			
WSI 6	<1	1	7			
WSI 7	<1	--	9			
WSI 8	<1	--	11			
WSI 9	<1	<1	10			
WSI 10	<1	<1	11			
WSI 11	<1	--	9			
WSI 12	<1	--	16			
WSI 13	<1	<1	9			
WSI 14	<1	--	12			
WSI 15	<1	--	7			
WSI 16	2	3	10			
WSI 17	<1	<1	11			
WSI 18	<1	--	14			
WSI 19	<1	--	8			
WSI 20	<1	--	9			
WSI 21	<1	--	10			
WSI 22	<1	--	6			
WSI 23	<1	--	6			
WSI 24	<1	--	7			
WSI 25	<1	--	14			
WSI 26	<1	--	11			
WSI 27	<1	<1	7			
WSI 28	<1	<1	5			
Method	F614	F614	H102			
Units	ppb	ppb	ppm			
Detection Limit	1	1	1			

Notes. N.A. = not analysed, -- = element not determined, I.S. = insufficient sample, L.N.R. = listed not received

**ANALYSIS DESCRIPTION**

Job number : BU014527 Order number : Ken Morrison 3/4/98

-----  
Scheme code : S031 - Soils; Dry, Fine pulverise, Ringmill <1.5kg

-----  
Sample preparation. Soil samples; Dry, Fine  
pulverise, Ringmill, <1.5 kg

-----  
Scheme code : F614 - 50g fire assay, Lead collection, DIBK, AAS

-----  
Fire assay, Lead collection, Aqua Regia digest,  
DIBK extraction, AAS, 50g sample.

-----  
Scheme code : G102 - Triple acid digest, Geochemical samples

-----  
Triple acid digest, (HCl,HNO3,HClO4), Geochemical  
samples.

-----  
Scheme code : H102 - Hydride AAS analysis

-----  
Hydride AAS analysis after G102 digest.



Our reference : BU014676  
 Your reference : **Ken Morrison**  
 Project code : Drop Off 20/5  
 Date received : 20/05/98  
 Date reported : 24/05/98

**Analabs Pty. Ltd.**  
 ACN 004 591 664  
 14 Thirkell St, Burnie  
 Tasmania 7320  
 Telephone : (004) 31 6837  
 Facsimile : (004) 31 8890

Ken Morrison  
 Managing geologist  
 K.C. Morrison Pty Ltd  
 Beaconsfield Gold NL  
 41 Tasma Street  
 North Hobart

TAS 7000

Number of pages of results : 1  
 Number of Samples : 30  
 First Sample : WDH1 00 - 02  
 Last Sample : WDH1 58 - 60

Invoice to:  
 Ken Morrison  
 Managing geologist  
 K.C. Morrison Pty Ltd  
 Beaconsfield Gold NL  
 41 Tasma Street  
 North Hobart

TAS 7000

Electronic Data Transmission :  
 Modem Y 24/05/98  
 Facsimile / /  
 Disk Report Y / /

Results to:

Results to:

Remarks :

Authorised by   
 On behalf of:

Richard Newman  
 Laboratory Manager

The results in the following analytical report pertain to the samples provided to this laboratory for preparation and/or analysis as requested by the client.



526046

A N A L A B S



## ANALYSIS DESCRIPTION

Job number : BU014676 Order number : Ken Morrison

-----  
Scheme code : S033 - Drillcore/Rock; Dry, Jaw crush, Fine pulv, Ring  
-----

Sample preparation. Drillcore, Rock samples; Dry,  
Jaw crush, Fine pulverise, Ringmill, <3.5kg

-----  
Scheme code : F650 - 50g fire assay, Lead collection, AAS  
-----

Fire assay, Lead collection, Aqua Regia digest,  
AAS, 50g sample.

526047

A N A L A B S



Our reference : BU014775  
Your reference : Ken Morrison  
Project code : Ex BU014676  
Date received : 11/06/98  
Date reported : 30/06/98

**Analabs Pty. Ltd.**  
ACN 004 591 664  
14 Thirkell St, Burnie  
Tasmania 7320  
Telephone : (004) 31 6837  
Facsimile : (004) 31 8890

Ken Morrison  
Managing geologist  
K.C. Morrison Pty Ltd  
Beaconsfield Gold NL  
41 Tasma Street  
North Hobart  
  
TAS 7000

Number of pages of results : 1  
Number of Samples : 30  
First Sample : WDH1 00 - 02  
Last Sample : WDH1 58 - 60

Invoice to:  
Ken Morrison  
Managing geologist  
K.C. Morrison Pty Ltd  
Beaconsfield Gold NL  
41 Tasma Street  
North Hobart  
  
TAS 7000

Electronic Data Transmission :  
Modem Y 30/06/98  
Facsimile / /  
Disk Report Y / /

Results to:

Results to:

Remarks :

Authorised by .....  
On behalf of:

Richard Newman  
Laboratory Manager

The results in the following analytical report pertain to the samples provided to this laboratory for preparation and/or analysis as requested by the client.





## ANALYSIS DESCRIPTION

Job number : BU014775 Order number : Ken Morrison

-----  
Scheme code : S033 - Drillcore/Rock; Dry, Jaw crush, Fine pulv, Ring

-----  
Sample preparation. Drillcore, Rock samples; Dry,  
Jaw crush, Fine pulverise, Ringmill, <3.5kg

-----  
Scheme code : G102 - Triple acid digest, Geochemical samples

-----  
Triple acid digest, (HCl, HNO<sub>3</sub>, HClO<sub>4</sub>), Geochemical  
samples.

-----  
Scheme code : A102 - AAS analysis

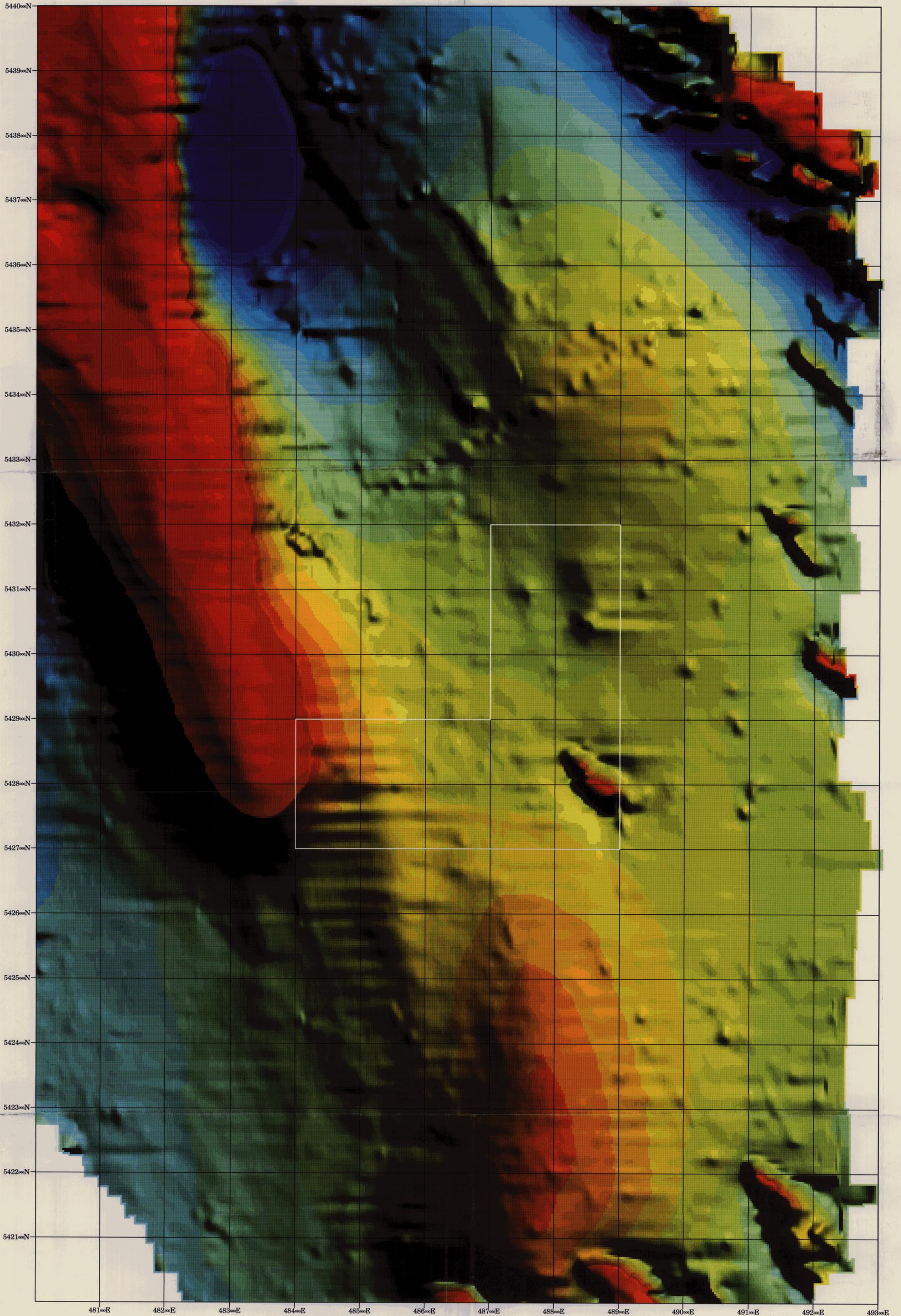
-----  
AAS analysis of sample after G102 digest.

-----  
Scheme code : X401 - Pressed powder, XRF, Trace determination

-----  
Pressed powder, XRF, Trace determination.

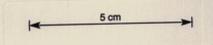
-----  
Scheme code : H102 - Hydride AAS analysis

-----  
Hydride AAS analysis after G102 digest.



**MAP 1**

EL 19/97 TMI with Northeast sun angle  
Scale: 1: 25 000



A\data5\kmm\tmi\_nesun

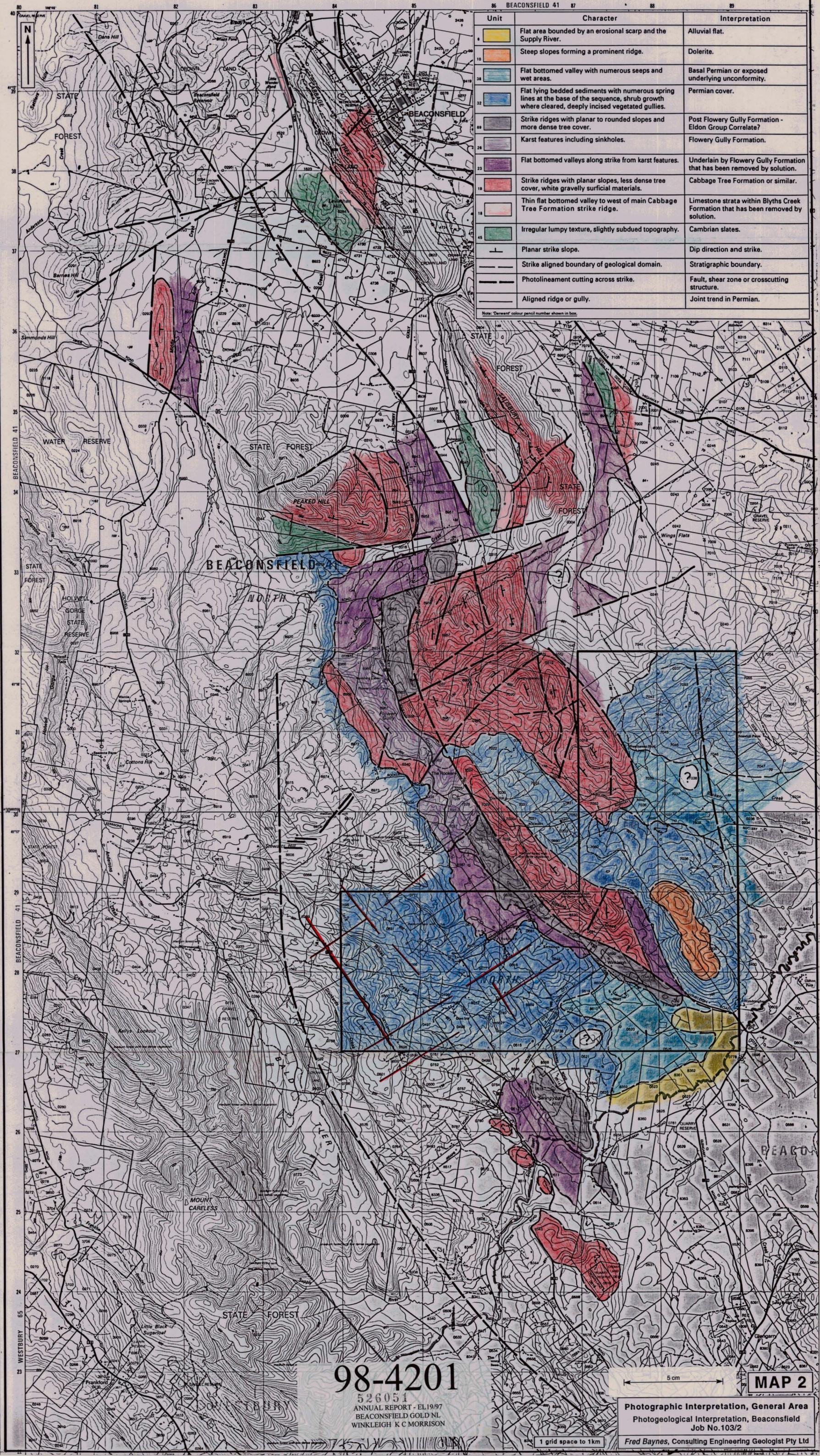
**98-4201**

ANNUAL REPORT - EL19/97  
BEACONSFIELD GOLD NL  
WINKLEIGH K C MORRISON

526050

Unit	Character	Interpretation
6	Flat area bounded by an erosional scarp and the Supply River.	Alluvial flat.
10	Steep slopes forming a prominent ridge.	Dolerite.
38	Flat bottomed valley with numerous seeps and wet areas.	Basal Permian or exposed underlying unconformity.
32	Flat lying bedded sediments with numerous spring lines at the base of the sequence, shrub growth where cleared, deeply incised vegetated gullies.	Permian cover.
69	Strike ridges with planar to rounded slopes and more dense tree cover.	Post Flowery Gully Formation - Eldon Group Correlate?
24	Karst features including sinkholes.	Flowery Gully Formation.
23	Flat bottomed valleys along strike from karst features.	Underlain by Flowery Gully Formation that has been removed by solution.
19	Strike ridges with planar slopes, less dense tree cover, white gravelly surficial materials.	Cabbage Tree Formation or similar.
18	Thin flat bottomed valley to west of main Cabbage Tree Formation strike ridge.	Limestone strata within Blyths Creek Formation that has been removed by solution.
45	Irregular lumpy texture, slightly subdued topography.	Cambrian slates.
		Dip direction and strike.
		Stratigraphic boundary.
		Fault, shear zone or crosscutting structure.
		Joint trend in Permian.

Note: Derwent colour pencil number shown in box.



98-4201  
526051  
ANNUAL REPORT - EL19/97  
BEACONSFIELD GOLD NL  
WINKLEIGH K C MORRISON

5 cm

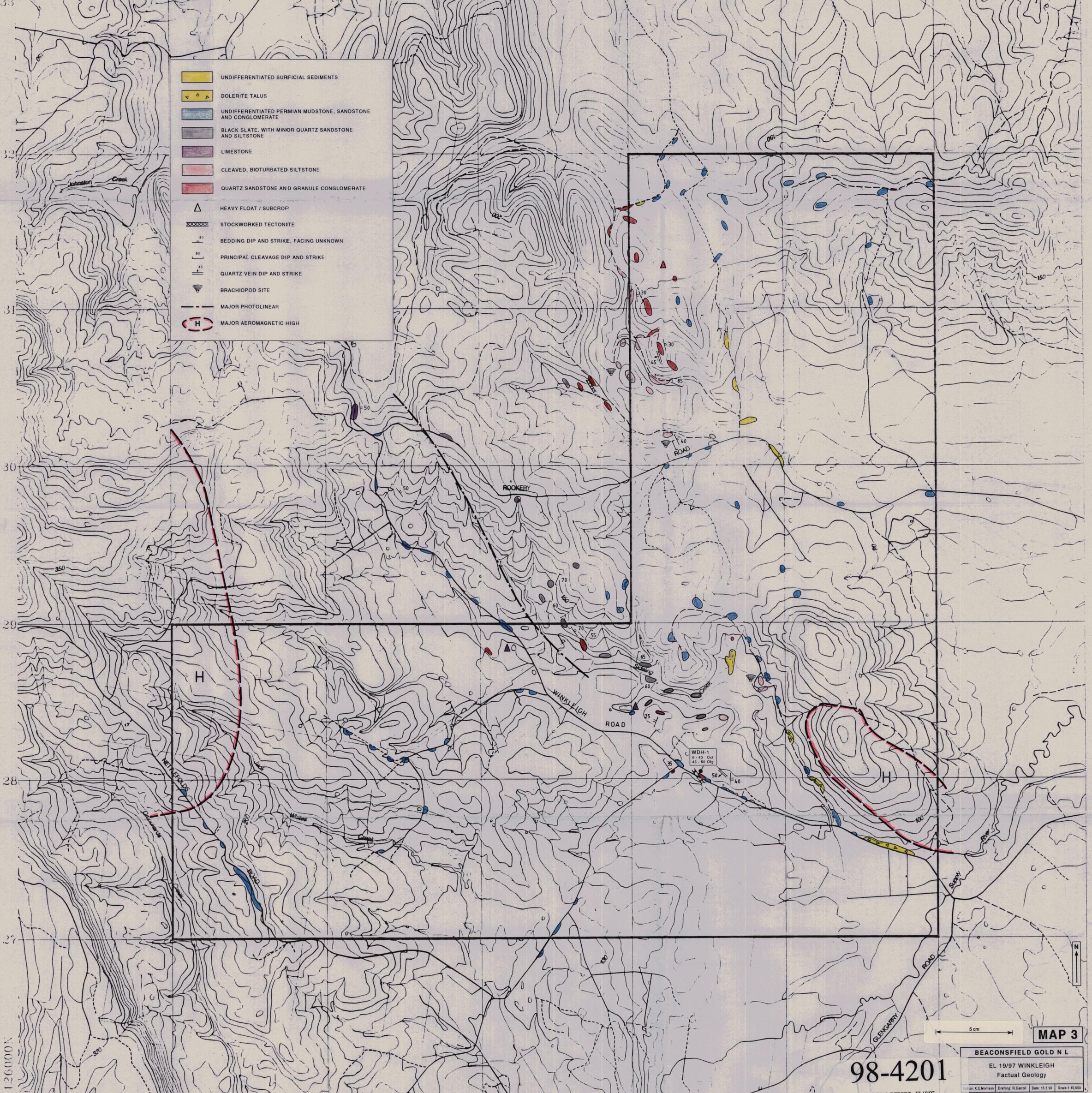
**MAP 2**

Photogeological Interpretation, General Area  
Photogeological Interpretation, Beaconsfield  
Job No. 103/2

Fred Baynes, Consulting Engineering Geologist Pty Ltd

1 grid space to 1km

	UNDIFFERENTIATED SURFICIAL SEDIMENTS
	DOLERITE TALUS
	UNDIFFERENTIATED PERMIAN MUDSTONE, SANDSTONE AND CONGLOMERATE
	BLACK SLATE, WITH MINOR QUARTZ SANDSTONE AND SILTSTONE
	LIMESTONE
	CLEAVED, BIOTURBATED SILTSTONE
	QUARTZ SANDSTONE AND GRANULE CONGLOMERATE
	HEAVY FLOAT / SUBCROP
	STOCKWORKED TECTONITE
	BEDDING DIP AND STRIKE, FACING UNKNOWN
	PRINCIPAL CLEAVAGE DIP AND STRIKE
	QUARTZ VEIN DIP AND STRIKE
	BRACHIOPOD SITE
	MAJOR PHOTOLINEAR
	MAJOR AEROMAGNETIC HIGH



5126000N

1830001E

84

85

86

87

88

90

**98-4201**

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WINKLEIGH K C MORRISON

**MAP 3**

BEACONSFIELD GOLD NL

EL 19/97 WINKLEIGH  
Factual Geology

Author: K.C. Morrison    Drafting: R. Carroll    Date: 15.5.98    Scale: 1:10,000

526052

**QUATERNARY**  
 Qu UNDIFFERENTIATED SURFICIAL SEDIMENTS

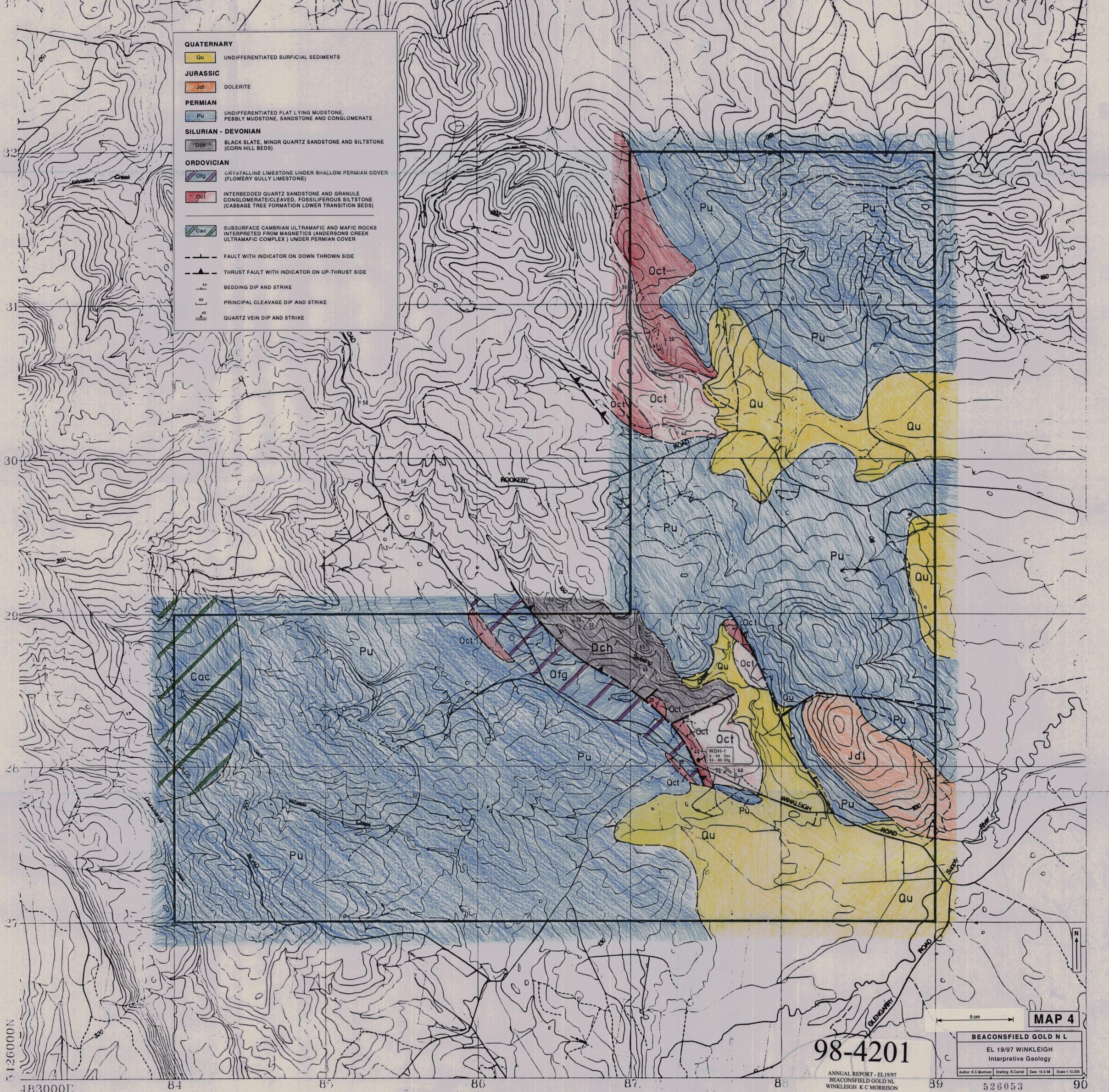
**JURASSIC**  
 Jdl DOLERITE

**PERMIAN**  
 Pu UNDIFFERENTIATED FLAT LYING MUDSTONE, PEBBLY MUDSTONE, SANDSTONE AND CONGLOMERATE

**SILURIAN - DEVONIAN**  
 Dch BLACK SLATE, MINOR QUARTZ SANDSTONE AND SILTSTONE (CORN HILL BEDS)

**ORDOVICIAN**  
 Ofg CRYSTALLINE LIMESTONE UNDER SHALLOW PERMIAN COVER (FLOWERY GULLY LIMESTONE)  
 Oct INTERBEDDED QUARTZ SANDSTONE AND GRANULE CONGLOMERATE/CLEAVED, FOSSILIFEROUS SILTSTONE (CABBAGE TREE FORMATION LOWER TRANSITION BEDS)  
 Cac SUBSURFACE CAMBRIAN ULTRAMAFIC AND MAFIC ROCKS INTERPRETED FROM MAGNETICS (ANDERSONS CREEK ULTRAMAFIC COMPLEX) UNDER PERMIAN COVER

--- FAULT WITH INDICATOR ON DOWN THROWN SIDE  
 --- THRUST FAULT WITH INDICATOR ON UP-THRUST SIDE  
 40 BEDDING DIP AND STRIKE  
 60 PRINCIPAL CLEAVAGE DIP AND STRIKE  
 45 QUARTZ VEIN DIP AND STRIKE



5 126000N

483000E 84 85 86 87 88 89 90

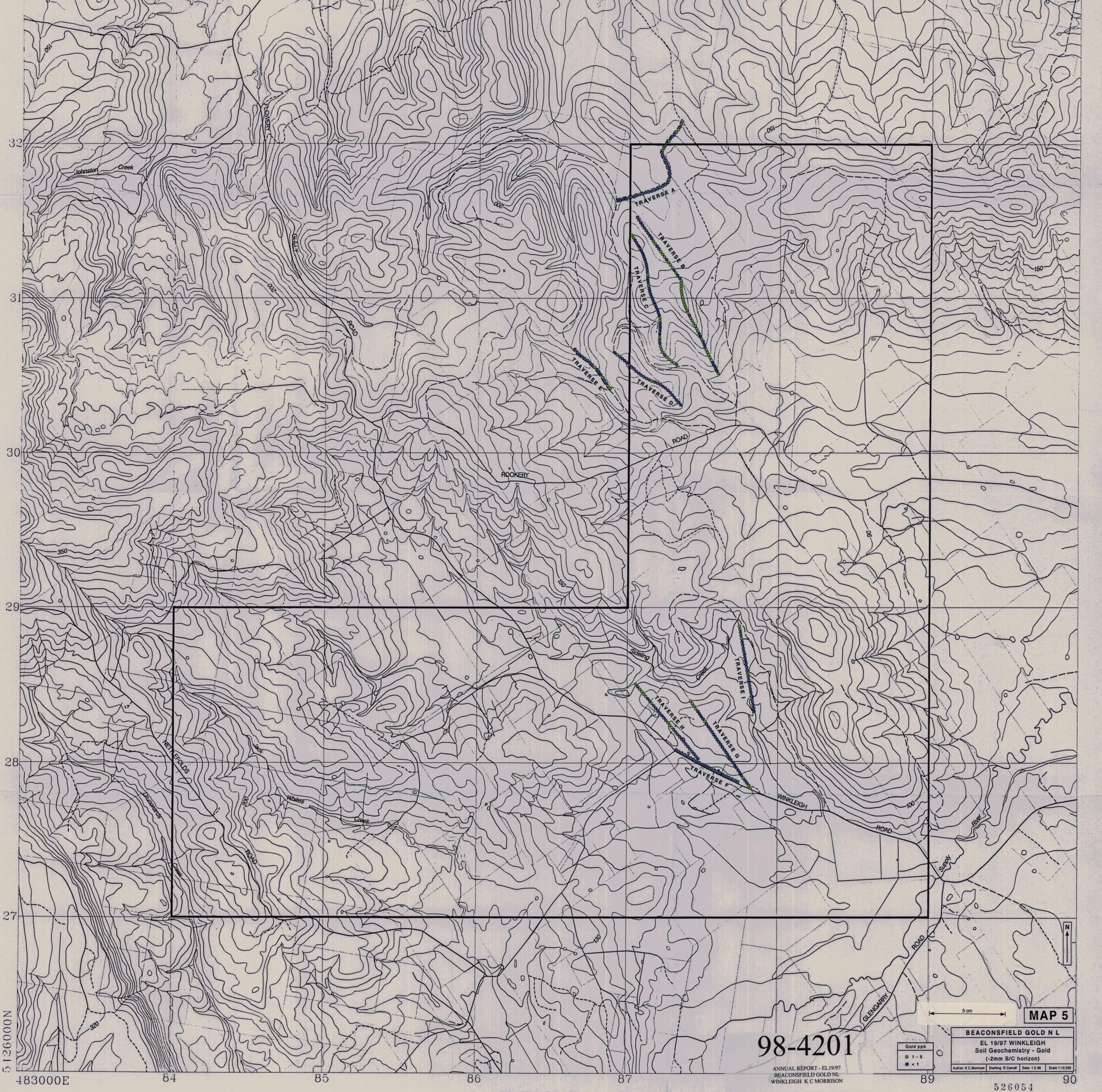
5 cm MAP 4

98-4201

BEACONSFIELD GOLD N L  
 EL 19/97 WINKLEIGH  
 Interpretive Geology  
 Author: K.C. Morrison | Drafting: R. Carroll | Date: 15.5.98 | Scale: 1:10,000

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 BEACONSFIELD GOLD N L  
 WINKLEIGH K.C. MORRISON

526053



5126000N

483000E 84 85 86 87 89 90

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 BEACONSFIELD GOLD NL  
 WINKLEIGH K C MORRISON

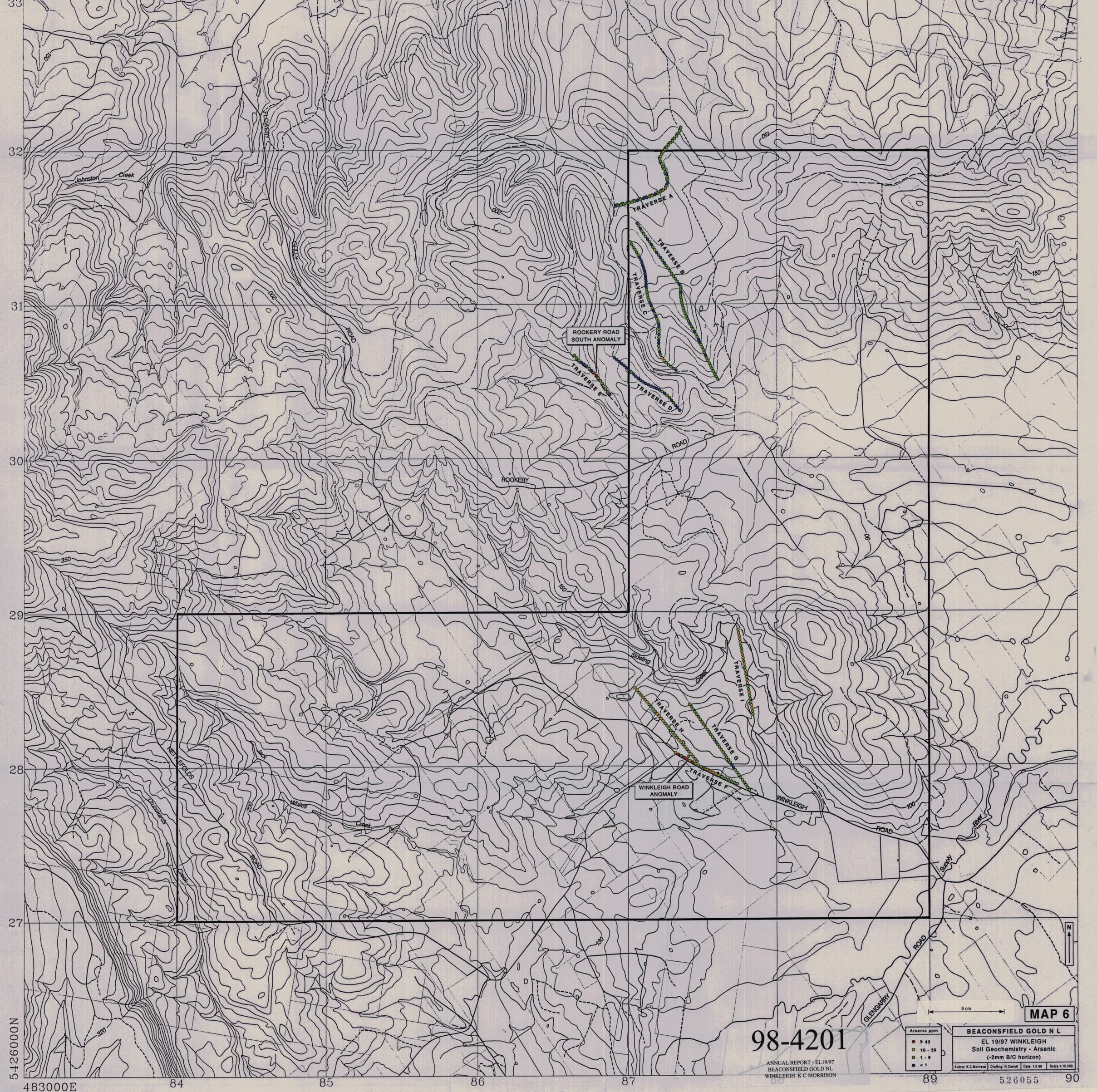
Gold ppb  
 ● 1 - 5  
 ● < 1

BEACONSFIELD GOLD NL  
 EL 19/97 WINKLEIGH  
 Soil Geochemistry - Gold  
 (~2mm B/C horizon)  
 Author: K.C. Morrison | Drafting: R. Carroll | Date: 13.08 | Scale: 1:10,000

MAP 5

5 cm

526054



5426000N

483000E 84 85 86 87 88 89 90

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BEACONSFIELD GOLD NL  
WINKLEIGH K C MORRISON

Arsenic ppm	
●	≥ 40
●	10 - 39
●	1 - 9
●	< 1

**BEACONSFIELD GOLD N L**  
EL 19/97 WINKLEIGH  
Soil Geochemistry - Arsenic  
(-2mm B/C horizon)  
Author: K.C. Morrison | Drafting: R. Carroll | Date: 15.08 | Scale: 1:10,000

5 cm

MAP 6

