

Allegiance Mining NL

EL 22 / 1997 - TRIAL HARBOUR

**ANNUAL REPORT
to July 2004**

26 July 2004



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CONTENTS

- 1. SUMMARY**
- 2. EXPLORATION PHILOSOPHY and STRATEGY**
- 3. EXPLORATION COMPLETED 2003-04**
- 4. EXPLORATION PLANNED 2004-05**

MAPS:

- 1. Location and Aeromagnetic Interpretation**
- 3. Burbank DDH B7 Cross-section**
- 4. Burbank DDH B7 Plan**
- 5. Viking Cross-section 354,125 m E**

Appendices:

- (a) DDH B7 drill log**
- (b) DDH B7 assays**
- (c) A 045 drill log**
- (d) A 045 assays**

1. SUMMARY

Allegiance Mining NL holds EL 22/1997 to facilitate exploration for skarn style nickel sulfide deposits in altered mafic and ultramafic formations west of Zeehan.

During 2003-04 drill hole DDH B7 was completed at the Burbank nickel prospect west of Avebury. It intersected a body of strongly altered ultramafics. A severely weathered zone of high core losses on the north-east flank of ultramafics assayed 23.9 m 0.77% Ni, 0.28% Zn.

Further east drill holes A 043 and A 045 were completed just east of EL 22/1997 to test for western extension of the Viking deposit at Avebury. Hole A 045 intersected a zone of altered ultramafics and an interval of high grade nicolite which are interpreted as indicating the Viking deposit will plunge to the west into EL 22/1997.

During 2004-05 further helicopter supported drilling is planned for Burbank. Additional drilling is under consideration in the Viking West area, but will depend on progress with the nearby Viking Decline and associated underground drilling.

Expenditure during 2003-04 was \$104,540. Budget estimate for 2004-05 is \$300,000.

2. EXPLORATION PHILOSOPHY and STRATEGY

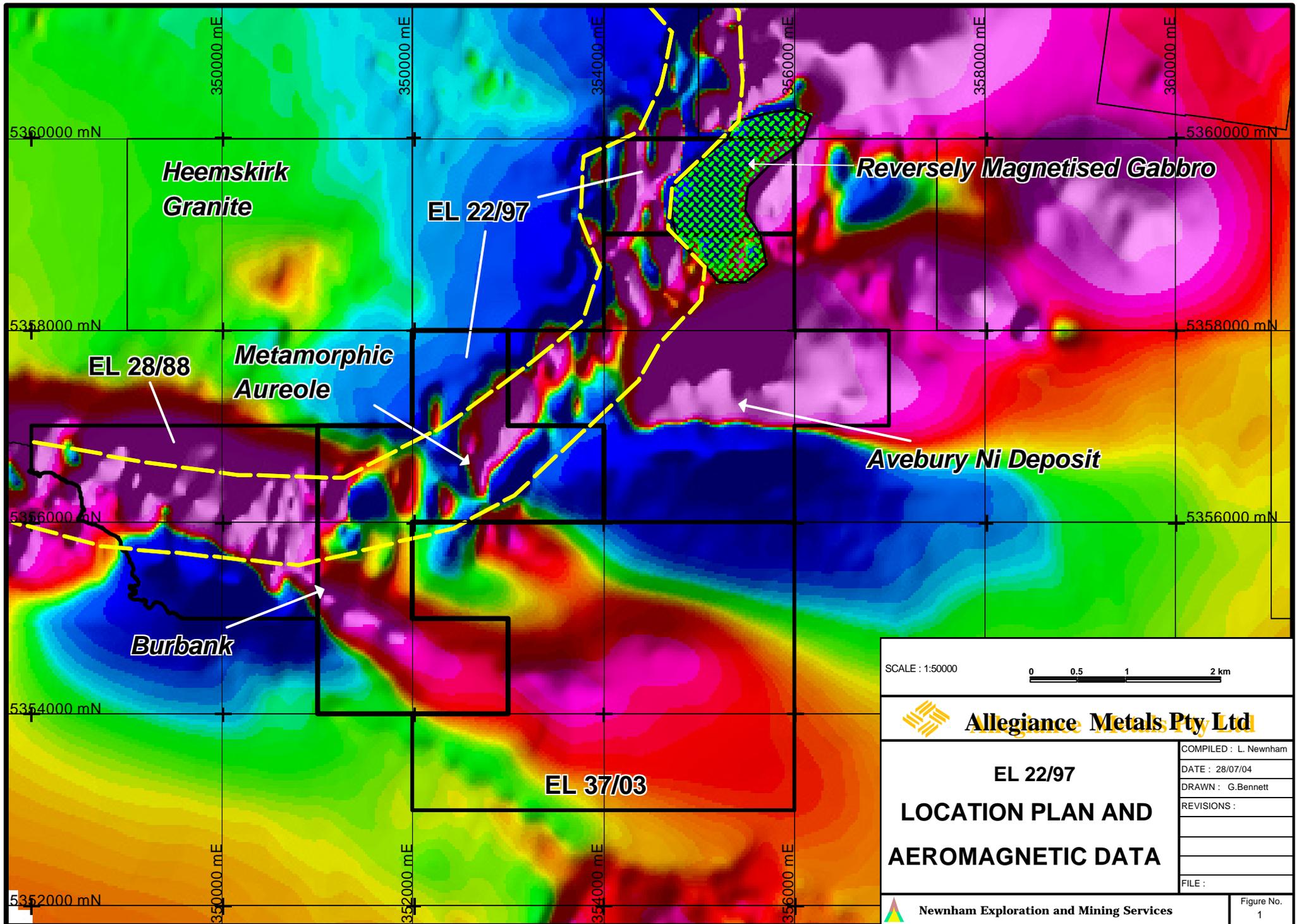
Exploration Lease 22/1997 covers an area west of Zeehan considered highly prospective for nickel sulfide skarn deposits of the Avebury style. The area is underlain by Cambrian mafic sediments and volcanics and ultramafic sills or intrusives.

These formations have been tectonically modified ahead of intrusion of the highly fractionated Heemskirk Granite, with resultant pervasive and intense alteration. Mineralisation within the Cambrian formations was mobilised and concentrated in various tectonic stratigraphic trap sites.

Exploration methodology for this style of deposit is a combination of aeromagnetism and litho geochemistry followed at an early stage by core drilling.

The Heemskirk contact aureole, together with favourable source rocks, have been identified as extending through EL 22/1997. The Avebury deposit itself lies to the immediate east of the licence and the Burbank prospect straddles the western boundary. The area between Burbank and Avebury is interpreted as highly prospective, but difficult, country.

Results from drilling to date provide encouragement for continued drill testing at Burbank, along strike of the Viking deposit and wide spaced testing of magnetic anomalies between Viking and Burbank.



SCALE : 1:50000

0 0.5 1 2 km

 **Allegiance Metals Pty Ltd**

EL 22/97

LOCATION PLAN AND AEROMAGNETIC DATA

COMPILED : L. Newnham
DATE : 28/07/04
DRAWN : G. Bennett
REVISIONS :
FILE :

 **Newnham Exploration and Mining Services**

Figure No. 1

3. EXPLORATION COMPLETED 2003-04

Principal work completed during 2003-04 which had an impact on EL 22/1997 included:

- completion of drill hole DDH B7 at Burbank
- completion of drill holes A 043, A 045 on the adjacent Mining Lease 3M/2003 covering Avebury

3.1 Burbank DDH B7:

DDH B7 was drilled to test a large lithogeochemical anomaly (Burbank) covering an extensive area of outcropping iron encrusted weathered ultramafics. Previously, six (6) shallow cored drill holes had confirmed the nickel potential in this area with most core averaging >1% nickel, occurring in a non-sulfidic habit.

Hole details for B7 are:

Collar co-ords	:	351,081 m E 5,355,330 m N 2065 RL
dip	:	-50°
bearing	:	245° AMG
length	:	394.1 m

The hole was drilled in January-February 2004 by Boart Longyear, using an LF 70 drill. The equipment was mobilised/demobilised and supported by a Squirrel helicopter operated by Tasmanian Helicopters.

All core is stored in Zeehan. Intervals selected for assay were halved by diamond saw and assayed with ICP by SGS via their Burnie laboratory. A log of the hole and assays are attached as Appendices (a) and (b).

The hole intersected sequence of Cambrian sediments and volcanoclastic rocks, including a strongly altered ultramafic body. The Cambrian formation is interpreted as dipping steeply to the north-east, and separated from overlying Silurian sediments by a broad tectonic breccia zone. The footwall of the ultramafic body also appears to be a major breccia/fault zone.

Cambrian sediments above the ultramafic are strongly deformed and folded whilst those below the breccia zone on the footwall of the ultramafic are well bedded and less disturbed.

Several sulfidic zones, dominated by pyrrhotite, were intersected in the Cambrian volcanoclastics and sediments, but Ni values were very low.

Within the ultramafics there were several narrow zones of sulfide carrying significant nickel and zinc. However, the main zone of interest appears to be a broad zone of intense alteration (or tectonic disturbance?) on the hangingwall of the ultramafic, including 131.4-155.3 - 23.9 m 0.77% Ni, 0.28% Zn. **Core recoveries through this interval were extremely poor.** Sulfur values were also low, suggesting the nickel and zinc were present in clays and secondary iron minerals.

This interval is interpreted as the depth continuation of the anomalous Ni-Zn zone sampled and intersected at surface.

3.2 DDH A 045:

A 045 was drilled on ML 3/2003 to test the western strike extension of the Viking deposit. Results of the hole are briefly included in this report because the hole collared only 150 m from the boundary with EL 22/1997 and the stratigraphy intersected is interpreted as extending into EL 22/1997.

Hole details are:

Collar co-ords	:	354,118,79 m E 5,357,033 m N 2105.7 RL
dip	:	-55°
bearing	:	003° AMG
length	:	406.5 m

A 045 intersected a sequence of strongly altered Cambrian sediments and mafic volcanics, including some units of strongly skarned calc-silicates.

From 295-353 it intersected a strongly altered calc-silicate, phlogopite unit which is a possible altered ultramafic and which is interpreted as the western extension of the Viking deposit. For this interpretation to be valid, the Viking extension must either be faulted to the south or change strike direction to the WSW and plunge to the west.

An interval of mineralisation within this altered ultramafic (?) unit assayed:

347.9-353.9 - 6 m 2.67% Ni, 2.64% As, 0.8% S

Nearly all the nickel was present as coarse nicolite, which is not uncommon in isolated patches near the top of the Avebury deposits.

A 045 is interpreted as suggesting the Avebury host stratigraphy will continue west along strike into EL 22/1997.

2100RL

2000RL

351,081mE
5,353,330mN

Gossanous Outcrops
Shallow Drillholes B1-B6

B7

23.9m @ 0.77% Ni
0.28% Zn

Little Henty River

Breccia Zone

Silurian Sediments

Contorted Cambrian Sediments

Altered Ultramafics

Cambrian Sediments and Volcaniclastics

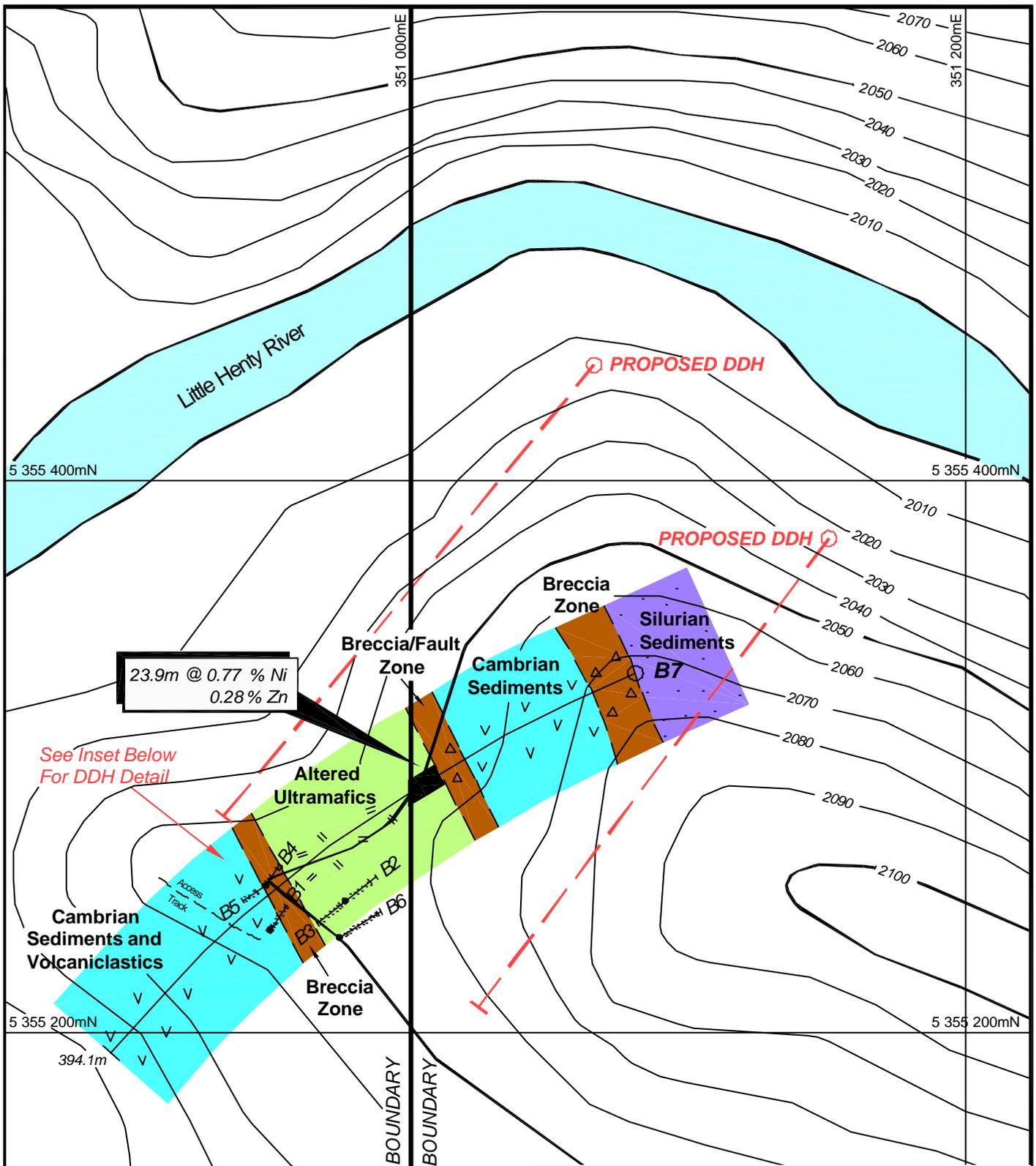
Fault/Breccia Zone

PROPOSED DDH

394,1E04

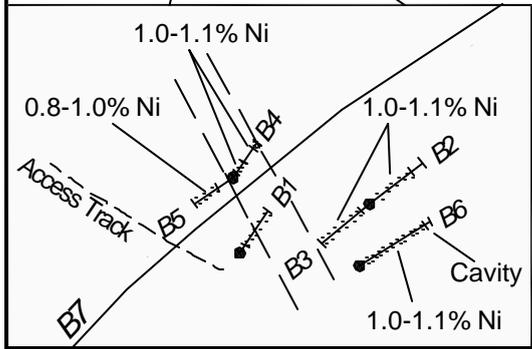
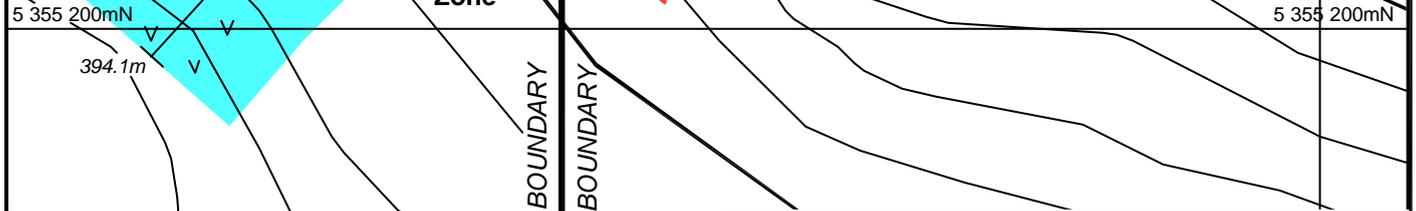
SCALE : 1:2000  m

 Allegiance Metals Pty Limited	
EL 22/97 - TRIAL HARBOUR BURBANK PROSPECT DRILL SECTION DDH B7 ORIENTATED 220° LOOKING NW	
Compiled : L.Newnham	
Date : 24/07/04	
Drawn : G.M.Bennett	
Revisions:	
File : BB XS DDH B7	
 Newnham Exploration and Mining Services	Figure No. 3



23.9m @ 0.77 % Ni
0.28 % Zn

See Inset Below
For DDH Detail



SCALE : 1:2000

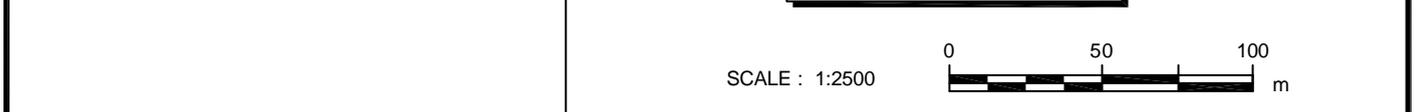
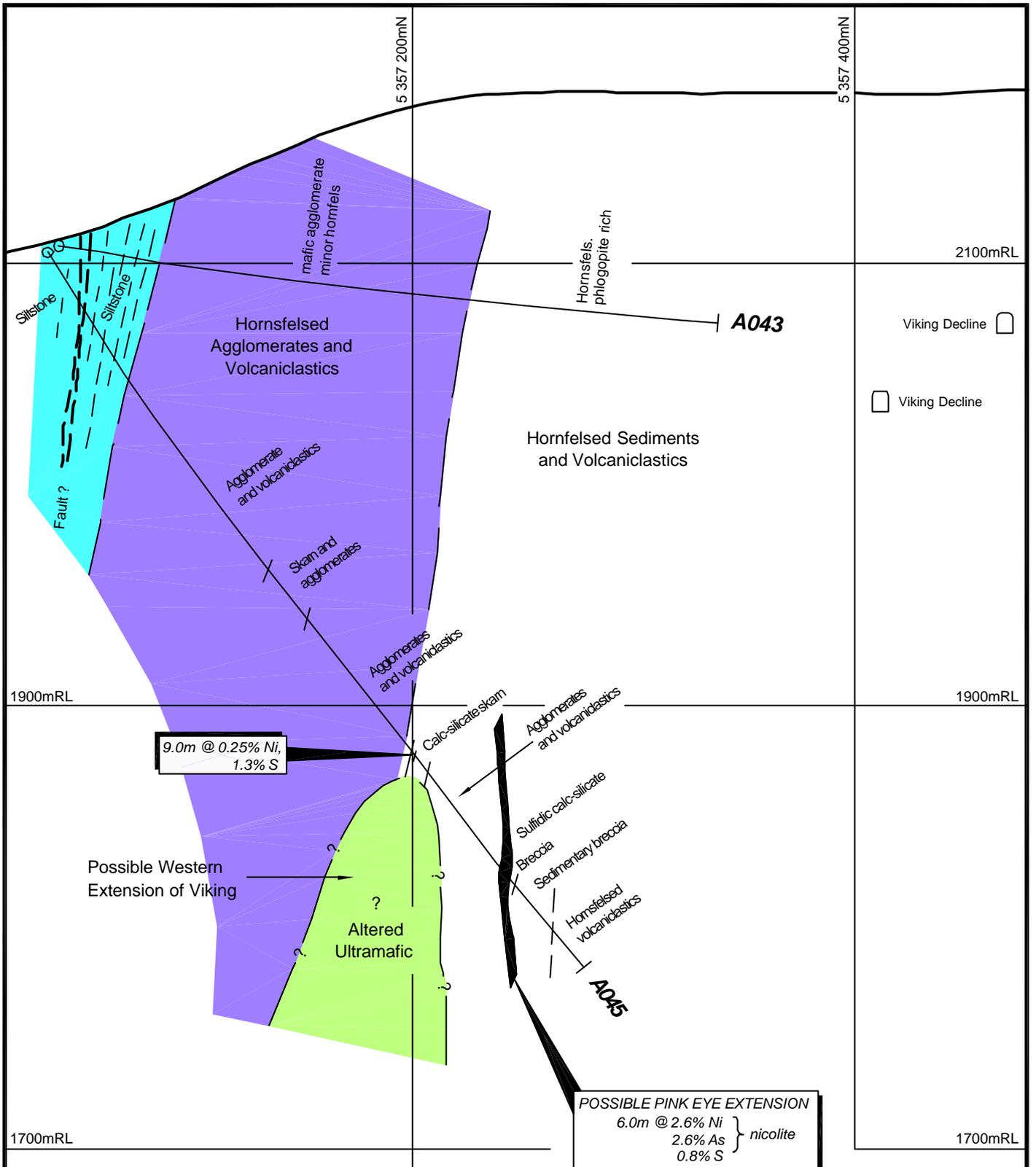
Allegiance Metals Pty Limited

**EL 22/97 - TRIAL HARBOUR
BURBANK PROSPECT
DRILLHOLE B7
PLAN**

Compiled : L.Newham
Date : 24/07/04
Drawn : G.M.Bennett
Revisions :
File : BB DDH B7 Plan

Newnham Exploration and Mining Services

Figure No.
4



Allegiance Metals Pty Limited

EL 22/97 - TRIAL HARBOUR
AVEBURY PROJECT
CROSS SECTION
354,125mE

Compiled : L.Newnham
Date: 24/07/04
Drawn : G.M.Bennett
Revisions:
File : Ave XS 354125E

NOTE:
EL 22/97 boundary 125m west of this section

Newnham Exploration and Mining Services

Figure No. 5

4. EXPLORATION PLANNED 2004-05

Exploration for 2004-05 will focus on follow-up drilling on the Burbank prospect.

Underground drilling will also be completed from the extreme western end of the Viking Decline to test for strike extensions of Viking West close to EL 22/1997 boundary.

4.1 Burbank:

Two helicopter supported drill holes are planned at Burbank to follow up the encouraging nickel intersection on the north-east flank of the ultramafic in DDH B7. To reduce the core recovery problems experienced in B7, it is proposed to collar the next two holes at the base of the Burbank ridge.

Location of the planned holes is shown on Figs 4 and 5.

Drilling is scheduled to commence in December and complete in late February. Total metreage will be 600-700 m NQ.

Budget estimate for this Burbank drilling is \$150,000.

4.2 Viking West:

The Viking Decline will be completed by end December 2004. The westernmost leg of the decline will present an opportunity to test from underground for western strike extensions of Viking approximately 100 m from the boundary of EL 22/1997.

Intersections in this area will obviously have an impact on additional drilling along strike into EL 22/1997, either from surface or extensions underground.

Appendix (a)
DDH B7 drill log

from	to	description
0.00	15.40	<p>Fault zone: Polymict cataclasite bearing weathered and altered variable lithologies in intervals to 5m+ within highly broken core, including puggy fault breccia zones. Lithologies include Cambrian-aged cream to mostly light brown/purplish thin bedded siltstone and Silurian-aged medium bedding thickness eg quartz sandstone, fg quartz sandstone, grey silicified quartzite, as well as common calc silicate and silicia-serpentinite altered clasts and one magnetite-veined Fe-oxidised clast. Up hole facing from graded beds and sediment rafts is evident in sediment intervals. Bedding to core angles are mostly high, with moderately tight folding and disrupted bedding evident locally (eg. 28.5m). Enclosing the coherent lithology zones is poorly to semi consolidated (Recent/Tertiary-aged?) breccia bearing a puggy clay matrix with poorly sorted irregular and angular clasts to 10cm. Pervasive cream to pale green silica-serpentinite alteration is mostly weak (locally intense) and lithology selective (coarser grained units), with irregular sharp margins locally. Some zones display later-stage overprinting wispy and joint following sil-serp veining of locally strong intensity.</p> <p>0.00m to 1.70m: Broken weathered puggy core, mostly light tan, fg siliceous sandstone with sparse mg quartz grains.</p> <p>1.70m to 8.45m: Light tan weathered and grey to pale green and green when fresh, relict altered siltstone and fg sandstone (siliceous; thin bedding to 10cm locally) interbedded with minor quartz sandstone / quartz granule-lithic sandstone and fg/mg feldspathic (arkose; eg. 6.15m) sandstone. Probable up-hole facing from graded bedding. Skarn-like calc-sil(/silica-serpentinite) alteration of variable intensity (weak to strong) commonly displays bedding parallel and flow-like form, often selectively replacing feldspathic beds and leaving zones of less altered (serp w/m, locally m/s) fg/mg (Crimson Creek Formation-like) arkose. Alteration is mostly pervasive with semi-pervasive zones showing relatively sharp irregular contacts with the enclosing sediment. Late overprinting often wispy fine semi-translucent silica-serpentinite veinlets. Core typically highly broken with strongly</p> <p>8.45m to 15.40m: Zone of fault breccia and broken core, similar to above, comprising mostly fg q-sst (Silurian sediment) clasts and cream calc-silicate altered clasts of variable size to 30cm+. The larger blocks commonly displaying breccia along internal fractures with near jigsaw fit of the clast portions forming the blocks.</p>
15.40	24.70	<p>Sandstone and lesser siltstone: Light brown, locally pale green (when altered), dominantly fg sandstone with lesser siliceous siltstone (Silurian sediments?). Locally thin bedded, otherwise includes a few quartz-sandstone beds to 40cm+. Commonly broken core with altered zones being more coherent. Locally highly broken zones with puggy, little consolidated fault breccia. Limonite on fractures (w/m). BCAs 65o @ 16.2m, 70o @ 20.65m, 80o @ 21.4m.</p>
24.70	28.35	<p>Fault zone: cataclasite bearing weathered and altered variable lithologies (dominantly Silurian</p> <p>24.70m to 25.15m: Fault breccia with puggy matrix and clasts of cg q-sst & fg sst.</p> <p>27.30m to 28.15m: Faulted and disturbed bedding, local zones foliation(m) in pale green siliceous matrix, pgn sediment breccia zones, bearing q-sst, cg to fg sst and silicified clasts within a thinly foliated matrix. 0.5cm dextral offset microfault @ 28.15m.</p> <p>28.15m to 28.35m: Poorly consolidated fault breccia.</p>

from	to	description
28.35	37.20	<p>Sandstone and minor siltstone: fault breccia on narrow joint planes. Includes a significant lithology pervasive sil(m/s) zone. The down-hole margin of silica overprint is diffuse, merging to little altered mg sst, bearing fracture/joint following pgn clayey serp(w)-veinlets(m; eg. 36.2m). 3cm dextral offset microfault within sst beds @ 30.3m. Highly broken core from 35.2m.</p>
37.20	41.40	<p>Fault/shear zone: Foliated(w) and banded zone with lesser puggy fault zones. Contains variable sized and irregular breccia-lithics, comprising silicified slst in a q-bearing matrix with patchy sil-serp-pyrrh alteration. The matrix is locally serpentinitised(m) with irregular py-rich zones (eg. 39.9m). Serp(w) overall with minor semi-perv sil(w) - dss mag and FeO(w) on fractures. Foliation to core angle 70° to 80°. Tertiary fault reactivation of a Devonian fault?</p> <p><i>37.20m to 37.40m:</i> Broken core, heterolithic fault breccia bearing Silurian qtzite and Cambrian mafic and calc-sil altered sediment clasts.</p> <p><i>37.40m to 38.25m:</i> Tan coloured weathered interval/fault zone clast with semi-pervasive dss and veined magnetite overprinting a q-rich matrix with relict bedded slst at the interval end. Orange oxidised colour after sulphide?</p>
41.40	50.35	<p>Volcaniclastics and skarn: bdd adjacent to zones of calc-sil altn) Cambrian mafic volcaniclastic siltstone, as well as cream and green calc-silicate and silica-serpentinite skarn, commonly displaying/overprinting relict foliation, that bears variable quartz grain content to granule size (after shear zone?). Irregular silica-serpentinite patches and lenticular foliation parallel zones(m, overall) are evident within dark green matrix pervasive serpentinite zones, marginal to the pervasive calc-silicate alteration. Pyrite and pyrrhotite are evident as a fg disseminated and irregular stringers/patches, mostly within the sediments (2%, locally 5%). Sparse disseminated mag(w) is evident in silica-serpentinite altn at 48.4m. Devonian-aged? foliation 80o@ 44.7m and 75o@ 49.85m.</p>
50.35	122.50	<p>Volcaniclastics: grey thin bedded to locally laminated, mostly fg mafic volcaniclastic sst and slst (Cambrian), with minor thicker beds of mg mafic and lithic fg mafic volcaniclastic sandstone. The latter apparently being a little more feldspathic than the enclosing sediments. Minor syn-sedimentary micro-faulting locally. Py and pyrrh variably dss and vnd to 4% locally as wispy sulphide-rich bk mdst lithics?. Sparse zones of serp/sil-serp pervasive and vnd alteration (eg. 63 to 63.7m). Local fine wavy foliation is evident in the serp zones, possibly reflecting pre-Tertiary faulting/shearing. Limonite on fractures(w/m) after serp-sil veins. Trace quartz(eg. @ 105.4m) and carbonate vns. Core is commonly broken with minor puggy fault zones. Variable intensity joints and fractures are 2 to 20cm spaced, with the highest intensity at the interval ends and near faults. Interval terminates in a highly broken core zone.</p> <p><i>50.35m to 51.92m:</i> Disseminated fg and stringer serp-veinlet(w/m), pyrrhotite(4% mag(w)) in thin bedded mafic volc sst & slst. Narrow (4cm) monomict mafic volc sst clast-bearing fault breccia with weathered tan puggy matrix is evident at 51.5 and 51.9m.</p>

from	to	description
		<p>51.92m to 61.55m: disseminated pyrrhotite(2%) and mostly weak intensity pyrrhotite stringer veinlets. The intensity of this veining is moderate from 55.3 to 55.7m) and w/m from 57.8 to 60.2m near a fold closure? where BCAs are sub parallel to core). A faulted zone from 56.5 to 56.8m bears wed ora clay on joints(w/m), after serp - py veining which displays slickensides of dextral offset (up-hole moving down-hole) at 15 to core. Sharp contact microfault 40 @ 54.1m. BCAs 60 @ 54.1m, 50 (facing up-hole / graded bedding) @ 54.65m, 65@55.05m, 30 (down-hole facing graded bed)@55.7m, 45@56.45m, 10@57.85m, 40@58.9m, 40@60.55m, 50@62m.</p>
		<p>61.55m to 62.95m: Dark grey fg to mg thin bedded mafic volcanoclastic sandstone with abundant(20%) dark grey wispy flecks bearing fg pyrrhotite (mag w/m). (pyrrhotite replaced lithic volc sst?). Stringer pyrite veinlets(w).</p>
		<p>62.95m to 63.65m: Green silica - serpentinite zone(m/s) overprinting (pervasive and hydrofracture breccia) polymict fine fault breccia, containing angular to sub rounded clasts to 3cm of fg and mg sil-serp altered sediment and grey siliceous frags. Irregular and foliation parallel black veinlets mag(w). Lower contact foliation at 55, upper sharp at 60. Disseminated and veinlet py to 4%, locally as relict blebs to 1.5cm dia of silica-serp-py, evident in upper 15cm.</p>
		<p>63.65m to 68.70m: Thickly bedded / massive mg mafic volcanoclastic sandstone. Disseminated and veinlet pyrrhotite (mag(w)) 1% to 3% locally. 64.15 to 64.25m includes wed tan FeO on joints after slickensided serp-py veining with minor fault breccia at end. Similar from 68.3 to 68.7m.</p>
		<p>68.70m to 73.05m: Moderately broken core of mostly med bed thickness fg pyrrhotitic lithic-bearing mg mafic volcanoclastic sandstone. Lithics mostly range to 5mm. Pyrrhotite 1%. Similar to 61.55 to 62.95m.</p>
		<p>73.05m to 99.00m: Grey thin bedded (to 4cm, mostly 0.5 to 1cm) fg mafic volcanoclastic sandstone and siltstone. Also including minor pale green to pinkish slightly siliceous fg sst/wacke with thin slst interbeds from 88.2 to 90m. Microfractures of dextral 1 to 4cm offset (up-hole side moving down) locally; 2 at 40 and 90 opposed near 84.65m; probable soft sediment deformation features. Moderately broken core with zones of wed tan clay after serp-py veining throughout(w). Pyrrhotite typically 0.5%. pervasive sil-serp(w) hydrobreccia with 1cm puggy zone in pinkish mg sandstone 84.95 - 85.1m. Serp-sil(w/m) hydrofracture breccia 97-97.2m. Quartz-carbonate veinlets (w, 0.5cm wide) 102.5 to 105m at 30 to core. Carbonate hydrofracture breccia 5cm wide 60@88.5m. BCAs 80@71.75m, 50@74.2m, 70@75.9m, 70@78.5, 65@84.25m, 75 (probable up-hole facing) @85.2m, 60 (up-hole facing from rip up clast and basal scour) @88m, 60@88.5m, 50@93.9m, 65@95.05m.</p>
		<p>99.00m to 102.00m: Highly broken, core loss reported. Includes intervals 20cm+ of recent monomict puggy fault breccia, bearing mafic volcanoclastic sediment clasts.</p>
		<p>102.00m to 108.50m: Thin bedded mafic volcanoclastic sediments, similar to interval 73.05 to 99m. BCAs 43@103m (graded bedding-up-hole facing), 50@103.5m, 10@104.5m, 10@105.5m, 0@107.8m.</p>
		<p>108.50m to 109.80m: Dark grey medium bedded lithic? fg mafic volcanoclastic sandstone. Similar to interval 68.7 - 73.05m.</p>

from	to	description
		<p>109.80m to 119.50m: Thin bedded mafic volcanoclastic sediments, similar to interval 73.05 to 99m. BCAs 10@109.8, 20@110.7m, 30@115.4m, 40@119.3m; possible down hole facing at 116.15m.</p> <p>119.50m to 122.50m: Broken zone.</p>
122.50	155.40	<p>Calc-silicate host rock (altered serpentinite); broken core / fault zone; core losses reported by driller: see core recoveries and assays.</p> <p>134.00m to 137.50m: Brown pervasive silica alteration</p> <p>137.50m to 155.40m: Broken core in fault zone with puggy fault gouge matrix. Includes intervals to 25cm of cream and pale bright green (Ni-stained) pervasively calc-silicate?(m) altered thin bedded Cambrian mafic volcanoclastic sediment.</p>
155.40	194.00	<p>Ultramafic with mineralised margins. Cream and black where magnetite alteration mostly intense. Grey and green where less altered with serp(s) pervasive zones locally evident with moderate foliation, pervasive cream silica - black magnetite alteration overprint is common(m). Relict mg/cg ultramafic texture locally where less altered. Coarse grained pale green dunite zones, Magnetite often follows a weak foliation/banding. Semi-pervasive/veined mag varies from ? to ?. Several repeats of textural variation are considered representative of ultramafic extrusive flow facies. This sequence, which is best represented by the uppermost interval, is breccia/mottled texture, sometimes followed by narrow massive spinifex textured ultramafic, grading to a banded (flow foliated?) zone and return brown and cream silicate altered zone, possibly representative of flow base thermal metamorphism. Silica overprint - feldspathic scum zones. Fragmental zones with clasts displaying curved/wavy banding (flow aligned frags in a hyaloclastite lava flow carapace?. Sulphide generally trace with intervals to 1% locally over 30cm+. Repetition of sequence - mottled fragmental appearing grading to t</p> <p>155.40m to 156.80m: Ultramafic upper contact marked by broken core, grey to green with veined and pervasive silica - magnetite overprint, bearing disseminated magnetite (m/s). Brown silicate/silica overprint is veined and semi pervasive evidently following brittle style fractures, suggesting late stage emplacement relative to the ultramafic. Disseminated sphal trace, trace sulphide - pyrrh/pent?</p> <p>155.40m to 156.80m: Broken core, grey to green mag(m) disseminated and veinlets, sphalerite (tr), late q-vnd, over cream and green altered ultramafic. Brown silicate/silica overprint (m) veined and semi-pervasive late stage . Largely filling brittle style cracks and pervading matrix.</p> <p>155.40m to 161.00m: reaching 2% (eg. 162.8m). mag(m/s). Apple green silicification as semi-pervasive zones and veinlets(w/m), fades to weak, then trace beyond 165.2m. @161.2 5cm is a crm sil(s)-cg mag(m) zone.</p> <p>156.80m to 161.85m: Mottled cream and grey ultramafic with semi-pervasive irregular zones of apple green Ni?-silicate. Sulphide trace, pervasive serp(m), Zones of strong semi-pervasive cream and black silica-magnetite within otherwise moderate intensity alteration. Late carb veins(w) on fractures.</p> <p>161.85m to 161.91m: elongate cream silicate clasts near the down hole contact. Represents an inter-flow sediment?</p>

from	to	description
		161.91m to 163.20m: Breccia textured cream and grey Ultramafic, bearing angular sometimes banded Ultramafic fragments and becoming massive toward the interval end. Flow top breccia? Trace patches sulphide.
		163.20m to 164.00m: altered mafic mineral laths - relict spinifex texture? (flow top?). vfg py/pyrrh?(0.5, locally 2%), sph(tr), apple gn sil(w)
		164.00m to 169.25m: Massive ultramafic, sphal(tr-0.5% locally), vfg sulphide(tr-1%, locally), apple gn sil(tr).
		168.50m to 170.70m: foliation locally strong, particularly near the interval base, Foliation 30 @ 168.6, 60 @ 169.5, 40 @ 170.4m. Late carb veinlets at irregular angles(w/m), cross cut banding. Interval ends in brown silica zone @ 170.7m, with carbonate filled breccia.
		169.25m to 171.00m: Apple gn sil(m/s), sphal(1-2%), vfg sulphide(tr), honey bn wispy replacement texture occurs over the last 50cm.
		169.30m to 169.60m: 2% pale sulphide, brown sphalerite (0.5%)
		169.80m to 170.15m:
		170.70m to 175.85m: banded, increasing in intensity to 175.9m where foliation is strong at the basal contact. 30@175.5m. pervasive sil-serp(w/m). Brownish sulphide (pent?) tr to locally 0.5%(171.7 - 172.3m & 174.6 -
		171.00m to 175.90m: locally convoluted toward the base. Sphal(tr-1% locally), vfg sulphide(tr-0.5% locally).
		175.85m to 175.90m: strong foliation bearing angular fragments. Carbonate and magnetite alteration from the interval below is truncated.
		175.90m to 178.45m: Ultramafic, mottled colour, light brown and cream & black. Brecciated/fragmental appearance becomes evident at the interval base. Contains mg relict brown olivine texture overprinted by semi-matrix-pervasive crm and pgn calc-silicate-magnetite alteration, bearing cg dss brown sphalerite? and trace other sulphide. Irregular stockwork and locally semi-pervasive magnetite(m) is overprinted by calc-silicate and cross cutting carbonate veinlets(w), the latter locally displaying cockade banding texture. Carbonate fills late stage microfaults with up to 5cm displacement being evident.

from	to	description
		<p>177.45m to 178.45m: Fg ultramafic interspersed with clast-like zones of apple green sil-serp(m). Magnetite locally evident as cg blebs to 1.5cm diameter, but mostly as veinlets and dss. Vfg sulphide (tr - 0.5%)</p>
		<p>178.45m to 179.60m: Massive, pgn and gn pervasive sil-serp-mag altered ultramafic, sil-serp vnd(w), pyrrh/pent(tr).</p>
		<p>179.60m to 179.90m: (3%) dss and vnd.</p>
		<p>179.90m to 186.60m: acicular bk crystals of tourmaline? - mag? - replacement of spinifex texture?, mag(w/m). Pyrrh/pent(tr-0.5%), sphal(tr-locally 1% over 10cm). Carb veined(w) to 1cm width parallel to core axis and at 45.</p>
		<p>183.70m to 184.05m: Mag(m) - pent(2%, vnd)</p>
		<p>186.60m to 189.75m: Grey massive ultramafic, sil-serp(m)-mag(m), pyrrh/pent (tr-0.5%), sphal(locally 1%).</p>
		<p>188.00m to 194.00m: dark grey/black semi-pervasive/veined magnetite(m, 30%+), bearing dark chocolate brown fine grained disseminated and patchy sulphide (sphalerite +/- Pentlandite?) mostly 0.5 to 1%, but locally 5% - 10% over 10 - 20cm intervals. Disseminated silvery sulphide (As-Ni?) trace to 1% locally over 10cm+. Pinkish/rosy sulphide (Ni?) mostly trace.</p>
		<p>189.75m to 192.65m: Dark grey and cream mottled ultramafic, sil(m/s), mag(w/m), sphal (~1%, dss), pyrrh/pent (tr-0.5% locally), Aspy/gal(locally 0.5%)?, cpy(tr). Ends in/grades to brown and cream sil(s), dss mag(w) over the basal 30cm.</p>
		<p>192.65m to 194.10m: clasts/intervals; 30cm recovered.</p>
194.00	227.50	<p>Mixed breccia - flow sequence often banded Um clasts) and altered Cambrian mafic volcanoclastic sediments. A sequence of repeated breccia flow units partly comprising ultramafic flows. Thin bedded siltstone is evident locally at breccia flow tops (eg. @??m). Upper most breccia is basal to overlying mineralised ultramafic flow. Interclast and zones of fg dark green pervasive serpentinite(m/s). May be features consistent with burrowing ultramafic intrusives? Or feeder proximal serpentinite pervasive veining, or hyaloclastite breccia proximal to ultramafic flows. Disseminated pyrrhotite? locally to 1%. Silica-serpentinite(m?). Pervasive serp(s) & serp veined(w/m?). Sulphides? Thermal meta at top unit/base ultramafic? Notably magnetite is sparse beneath the ultramafic, possibly suggesting that it's primary magnetite related to the ultramafic, rather than granite related. At odds is the granite related? Zn-magnetite association. Some times zoning to ill defined clast boundaries. Some talus/debris breccia and pepperite breccia.</p>

from	to	description
		<p>194.00m to 203.00m: Breccia unit with sub rounded sediment? clasts at its top changing to angular locally jigsaw fit toward the base. (basal breccia/conglomerate; low scour?) Rift environment with debris breccia flows and ultramafic flows proximal to a fault scarp? Sub rounded clasts located near the top. Whilst further down-hole intervals of polymict fine breccia, bearing angular clasts to 4cm, lies between larger monomict zones bearing jigsaw fit breccia texture. The finer matrix (clast-infill) breccias become less common down hole, suggesting this unit represents a proximal to source semi-coherent debris flow with finer less coherent, more mixed and sorted flow top breccia and intraflow-clast breccia. Clasts within these blocks are commonly bleached and silicified appearing suggestive of thermal metamorphism basal to ultramafic flow. Flow base fine breccia zone is Fe oxidised with matrix pervasive carbonate breccia infill being strong over an included 15cm interval.</p>
		<p>192.70m to 201m?: greywacke/mafic volcanoclastic clasts. Also bn fg hornfels and large(>30cm) eg Ultramafic clasts. Down-hole lithology becomes fg dgn angular mafic clast dominated, with local jig saw fit breccia(from 196.6m). Some clasts are possibly flow foliated, perhaps transitional from debris flow to</p>
		<p>200.50m to 201.00m: Carbonate matrix fill breccia/veining forms the basal 10cm.</p>
		<p>201.00m to 207.45m: feldspathic cg mafic, lesser fg dgn mafic and local relict banded mafic clasts within a fg serpentinitised(m) mafic groundmass. Some fg mafic clasts apparently zone to cg feldspathic texture with increasing alteration intensity.</p>
		<p>202.30m to 207.45m: Altered mg mafic volcanoclastic sandstone. Displays fracture pattern and local contorted beds, consistent with soft sediment deformation. Forms complete jigsaw fit breccia-like texture with thermally metamorphosed? rims.</p>
		<p>207.45m to 207.60m: serpentinite vein infill.</p>
		<p>207.60m to 215.55m: As for 201 to 207.45m. Minor bn relict greywacke at 214.1m.</p>
		<p>215.55m to 221.70m: Banded/flow foliated with minor breccia. Grades to fine breccia clasts to <5cm bearing fg mafic clasts in a lht gn sil-serp like semi-pervasive vein-like infill(m). Possible lava flow base altn? Sil-serp(m) overprint on hyaloclastite-like breccia. Colloform banded carbonate veining to 1cm thickness with drusy quartz infill @ 219.4 to 219.5m.</p>
		<p>216.00m to 224.60m: Breccia textured</p>
		<p>221.70m to 227.50m: Similar to above, but crm and msv bn relict hornfels sediment clasts common. Sil-serp(m). Sphal(tr-3% locally), py(tr). Irregular lht gn sil-serp semi-pervasive vnd(m) overprints strongly serpentinitised groundmass/matrix alteration, pervades fractures in silicified sediments clasts. Ultramafic breccia - flow top? includes crm calc-sil with dss cg diffuse magnetite zone.</p>

from	to	description
		<i>224.75m to 225.05m:</i> Fe Oxidised zone over sil-serp(m), carb vnd(w/m)
		<i>226.00m to 226.35m:</i> Dss cg bn sphal(3%), py(tr).
		<i>226.95m to 227.10m:</i> Dss cg silver galena(0.5%).
227.50	233.00	Flow top? With thermal meta overprint, diffuse boundary to pgn sil-serp(s) overprint, locally crm relict calc-sil bearing dss cg bk magnetite, silica veinlet overprint on calc-sil(w) local. Local relict mg/cg igneous and spinifex texture.
233.00	271.00	Mixed altered mafic volcanoclastic sediments , some msv zones, sed clast breccia, <i>233.0m to 239.55m:</i> Dgn, crm & dbn breccia with relict bn hornfels common and crm sil clasts in a dgn pervasively serpentinitised(m/s) homogeneous mafic groundmass (Possible pepperite?). @233.9m is a q-vnd bn hornfels clast with q-veining cut off abruptly at the clast margin, suggesting the clast was veined pre-breccia. carb vnd(w) <i>239.55m to 240.0m:</i> Unconsolidated fault breccia bearing fg mafic/serpentinitised and abundant bright apple green silicate clasts. <i>240.0m to 256.65m:</i> Mostly dgn fg matrix pervasive serp(m/s) with relict diffuse edged bn silicified hornfels and minor diffuse edged crm silica zones. Cg semi-perv serp vnd(w/m) blends with/to matrix pervasive serp alteration. Intensity is locally moderate forming hydrothermal breccia (eg. 249.5 - 252.5m). local zones of bright apple green silica (eg. 243.15 to 243.25m). carb veinlets(w/m). <i>256.65m to 257.10m:</i> Dgn as above with bn sulphide - pyrrh/pent?(tr-0.5%) <i>257.10m to 259.95m:</i> feld? as acicular laths(spinifex texture). Semi-perv serp-vnd overprint absent. Bn pyrrh?(tr) but locally 1% with crm calc-sil(w/m) over upper 30cm. Possible mafic volcanic flow. <i>259.95m to 263.10m:</i> As for 240 to 256m. semi-perv serp vnd/zones(m) locally, pyrrh(0.5%, 262.3 - 262.6m). <i>263.10m to 264.50m:</i> Highly broken core. <i>264.50m to 271.00m:</i> Sparse bn and crm silicate zones. At top interval is 1m of minor semi-perv serp vnd(w). Broken core at 268.5m.
271.00	335.35	Mafic volcanoclastic sedimentary rock with dgn matrix, pervasive serpentinitisation(m/s) with common bn and cream silicate clast zones. Dss pent/pyrrh (tr) locally. Zones perv bright apple gn silicate(s) locally, but sparse overall. Crm silicate zones locally bear dss mag and pyrrh. Matrix of clasts is largely indiscernible. Includes a significant pyrrhotite mineralised zone from 315 to 321m. This is the unit logged at Avebury as mafic agglomerate and is the unit in which the Viking decline commenced (M.V.McK).

from	to	description
	272.50m to 272.90m:	Broken core zone / fault?
	273.60m to 273.60m:	Broken core zone / fault?
	276.20m to 278.95m:	Broken core zone / fault?; gn silicified and FeOx fragments common.
	280.00m to 280.50m:	Broken core zone / fault?
	283.00m to 288.50m:	Zoned sil clasts, lesser gn msv matrix, apple gn zones.
	286.85m to 287.90m:	Bright apple green silicate alteration zone; strong locally but weak overall.
	294.15m to 294.15m:	Bright apple green silicate alteration zone.
	299.70m to 299.70m:	Bright apple green silicate alteration zone.
	300.60m to 300.60m:	Bright apple green silicate alteration zone by 5cm.
	301.25m to 301.25m:	Bright apple green silicate alteration zone by 5cm.
	315.45m to 321.10m:	Sulphide mineralised zone.
	315.45m to 315.75m:	Py(0.5%) dss, bn pyrhh(tr-0.5%) dss & dss vnd/patches.
	315.50m to 323.00m:	Dss pyrhh incl 75cm 15-30%.
	315.75m to 316.30m:	Pyrhh(3%), cpy(tr) dss and patches.
	316.30m to 318.35m:	Pyrhh(tr-0.5%).
	318.35m to 318.60m:	Pyrhh(5%).
	318.60m to 318.80m:	Pyrhh(0.5%), py(20%).
	318.80m to 319.10m:	Pyrhh(2%), py(2%).
	319.10m to 321.10m:	bearing sed breccia clasts / domainal alteration.

from	to	description
335.35	337.60	Hornfels mostly grey/crm sediment with relict thin bedding locally and sparse semi-perv vnd serp(w). Carb vnd(vw). Hornfels grades out. Rock includes brown thin bdd? fg greywacke, mg/cg greywacke and minor hornfels fg/mg mafic volcanoclastic sandstone. BCA 50o at 337.6m and 335.8m. dss mag(tr - 0.5%) locally. relict thin bdd and otherwise massive hornfels / silicified(m)? greywacke fg to cg, bearing common crm rounded to sub-rounded lithics of crm siltstone. Differs from the interval above in that above bears bn relict mafic volcanoclastic sandstone.
337.60	380.50	Brown mafic volcanoclastic fg/mg mostly massive thick bedded with minor thin bedded zones and thin interbeds (<1.5m) of grey/crm slst lithic-bearing greywacke, similar to the interval above. Sparse intervals bearing thin black mudstone/shale interbeds. Py? dss(tr-locally 0.5+%). Core is moderately (<20cm length) to locally highly broken with minor sil-serp-FeOx filled fault zones. carb vnd(tr), serp vnd(vw). Overall mag sus ~0. BCA 90° @ 340.25m provides up-hole facing beds grading to black mudstone. @342.3m mg/cg beds locally bear elongate tapered black shale lithics to 1cm max. BCAs 20° @ 347.25 (suspect up-hole facing) & 350.4m, 35° @ 374.05 & 25° @ 374.7m. Minor soft sediment deformation microfaults at 350.4m. 0.5cm band of near massive pyrhh @ 374.05m. Minor intervals of very fine grained pyrhh - silica alteration.
		344.35m to 344.65m: Broken core. Fault zone bearing fragments of cream to apple green silicification(s) - py?(tr - 0.5%), Fe oxidised frags (w/m). Note:- significant cave in zones down-hole at start core runs (1m @ 356.5 & 0.5m @ 371.5m) bear similar material with sparse country rock and are probably derived from this interval.
		344.90m to 344.95m: Broken core. Fault zone bearing fragments of cream to apple green silicification(s) - py?(tr - 0.5%), Fe oxidised frags (w/m).
		352.20m to 352.30m : Core loss; highly broken core.
		357.30m to 358.00m: Fracture following and semi-pervasive serp veining (w/m); locally py(tr - 0.5%) in veins.
		374.03m to 378.10m: grading to moderate intensity with relict mg volcanoclastic texture locally. Silicification ends abruptly at the basal contact. Abundant sulphide mineralisation is evident as fine(<0.5mm, 1mm spaced) discontinuous and anastomosing sub-parallel veinlets/bands of very fine grained dull dark grey to olive pyrhh(mag w). Pyrhh reaches semi-massive(~20%). Sulphide bands are at 90o to BCA of 30o at 377.6m. Sil-mag-py & sil-serp-mag-py vnd(tr). Numerous veinlets serp with py painted on joints(w/m).
		378.10m to 380.50m: vnd(vw). Disseminated fg sulphide (tr - 0.5%). Sharp contact with unit down-hole.
380.50	394.10	Grey pervasive silicification(wacke texture? With flecks relict bk shale lithics locally. Flecks of crm sphene? occur locally. Similar to unit up-hole. Cream coloured silicified / cherty round clast-like zones of mostly <0.5cm, but to 5 and 10cm near the interval base. Domainal silica alteration periferal to serp alteration. This alteration gradation also occurs up-hole at the base of the serp zone. Clast like zones may be brown where preserved in serp zones. Notable this alteration gradation is evident on a small scale about individual serp veins. Up-hole bn clasts / zones of mafic volcanoclastic lie within serp-sil domainal alteration.

from	to	description
		<i>392.40m to 393.05m:</i> Interval of pervasive serp(m/s) with relict domainal silica "clasts". Minor apple gn sil-serp with sphal(tr) at interval base.

END OF HOLE AT 394.1m

bhid		from m	to m	core recovery %	Ni ppm	Co ppm	Cu ppm	Pb ppm	Zn ppm	As ppm	S ppm	Cr ppm	Fe ppm	Au ppm
B7	weathered fault zone?	37.4	38.3	90	110	36	160	36	145	70	1750		71500	<0.01
B7	calc-silicte host rock	122.5	124.7	41	1750	40	70	<125	1200	<25	285			
B7	calc-silicte host rock	124.7	127.7	13	2520	62	60	<125	1540	<25	290			
B7	calc-silicte host rock	127.7	131.4	13	1940	56	48	<125	875	<25	220			
B7	calc-silicte host rock	131.4	134.5	33	4900	120	<15	<125	870	32	115			
B7	calc-silicte host rock	134.5	135.5	73	6290	165	<15	<125	1060	48	140			
B7	calc-silicte host rock	135.5	136.5	73	6530	165	<15	<125	2150	84	180			
B7	calc-silicte host rock	136.5	137.5	73	8940	170	<15	<125	3270	145	135			
B7	calc-silicte host rock	137.5	139.9	75	7610	68	<15	<125	3130	<25	230			
B7	calc-silicte host rock	139.9	140.9	74	1460	26	<15	<125	745	<25	150			
B7	calc-silicte host rock	140.9	141.9	74	5040	44	<15	<125	2590	<25	140			
B7	calc-silicte host rock	141.9	143.0	74	515	32	<15	<125	275	<25	150			
B7	calc-silicte host rock	143.0	148.3	9	6260	60	<15	<125	3090	<25	240			
B7	calc-silicte host rock	148.3	155.4	10	13200	125	52	180	4720	140	200			
B7	partly altered ultramafic	155.4	156.0	87	4770	81	<25	62	2690	25	<250		52500	<0.01
B7	partly altered ultramafic	156.0	157.0	87	1030	38	140	28	490	25	125		41500	<0.01
B7	partly altered ultramafic	157.0	158.0	87	1090	44	80	<25	250	25	125		34500	<0.01
B7	partly altered ultramafic	158.0	159.0	90	940	36	<25	<25	275	25	125		41000	<0.01
B7	partly altered ultramafic	159.0	160.0	93	610	28	<25	<25	420	25	125		33500	<0.01
B7	partly altered ultramafic	160.0	161.0	90	615	26	<25	<25	155	25	125		32000	<0.01
B7	partly altered ultramafic	161.0	162.0	96	1400	41	165	38	510	105	125		36000	<0.01
B7	partly altered ultramafic	162.0	163.0	100	1210	61	<25	<25	680	25	250		36000	<0.01
B7	partly altered ultramafic	163.0	164.0	100	2050	88	<25	70	750	25	900		41500	<0.01
B7	partly altered ultramafic	164.0	165.0	100	1470	65	<25	30	540	25	550		32000	<0.01
B7	partly altered ultramafic	165.0	166.0	100	1520	68	<25	<25	500	25	600		40500	<0.01
B7	partly altered ultramafic	166.0	167.0	100	1430	65	36	<25	1070	25	700		41500	<0.01
B7	partly altered ultramafic	167.0	168.0	100	1340	67	<25	<25	1160	25	650		47500	<0.01
B7	partly altered ultramafic	168.0	169.0	100	2360	110	82	26	1240	25	1300		53500	<0.01
B7	partly altered ultramafic	169.0	170.0	100	2850	120	<25	54	1040	25	1150		62500	<0.01
B7	partly altered ultramafic	170.0	171.0	100	2190	94	<25	28	205	25	125		38500	<0.01
B7	partly altered ultramafic	171.0	172.0	100	2630	105	<25	<25	195	25	1100		43000	<0.01

bhid		from m	to m	core recovery %	Ni ppm	Co ppm	Cu ppm	Pb ppm	Zn ppm	As ppm	S ppm	Cr ppm	Fe ppm	Au ppm
B7	partly altered ultramafic	172.0	173.0	100	3240	110	<25	<25	295	25	1300		38500	<0.01
B7	partly altered ultramafic	173.0	174.0	100	2750	97	<25	<25	260	25	1100		34500	<0.01
B7	partly altered ultramafic	174.0	175.0	100	2690	100	<25	<25	385	25	1150		36500	<0.01
B7	partly altered ultramafic	175.0	176.0	100	3170	120	<25	<25	480	25	750		65500	<0.01
B7	partly altered ultramafic	176.0	177.0	100	5660	125	<25	34	1600	25	125		90000	<0.01
B7	partly altered ultramafic	177.0	178.0	100	3620	115	<25	<25	625	25	125		83000	<0.01
B7	partly altered ultramafic	178.0	179.0	100	1640	95	<25	<25	155	25	500		42500	<0.01
B7	partly altered ultramafic	179.0	180.0	100	2510	110	<25	<25	90	70	1050		39500	<0.01
B7	partly altered ultramafic	180.0	181.0	100	2090	105	<25	<25	230	50	700		45500	<0.01
B7	partly altered ultramafic	181.0	182.0	100	1850	99	<25	<25	215	100	350		49000	<0.01
B7	partly altered ultramafic	182.0	183.0	100	1470	69	<25	<25	205	25	125		41000	<0.01
B7	partly altered ultramafic	183.0	184.0	100	2550	145	50	<25	395	100	1100		48000	<0.01
B7	partly altered ultramafic	184.0	185.0	100	1410	70	<25	<25	370	25	500		42000	<0.01
B7	partly altered ultramafic	185.0	186.0	100	1620	88	<25	<25	355	25	1000		47000	<0.01
B7	partly altered ultramafic	186.0	187.0	100	1600	66	<25	<25	220	25	600		42500	<0.01
B7	partly altered ultramafic	187.0	188.0	100	1640	65	<25	<25	240	135	750		48500	<0.01
B7	partly altered ultramafic	188.0	189.0	100	2030	100	<25	<25	330	345	700		66500	<0.01
B7	partly altered ultramafic	189.0	190.0	100	1180	81	<25	<25	240	100	125		53500	<0.01
B7	partly altered ultramafic	190.0	191.0	100	2340	105	<25	<25	175	25	900		70000	<0.01
B7	partly altered ultramafic	191.0	192.0	100	3000	205	<25	56	385	25	2200		78000	<0.01
B7	partly altered ultramafic	192.0	192.6	54	2290	170	<25	54	385	25	1350		70500	<0.01
B7	mafic flows and volcanoclastics	225.0	226.0	97	215	45	<25	<25	125	<50	<250		63500	<0.01
B7	mafic flows and volcanoclastics	225.1	225.9	97	1020	84	<25	60	680	<50	<250		123000	<0.01
B7	mafic flows and volcanoclastics	225.9	226.9	97	320	71	32	240	420	<50	<250		146000	<0.01
B7	mafic flows and volcanoclastics	226.0	227.0	97	215	48	<25	<25	105	<50	450		66500	<0.01
B7	mafic flows and volcanoclastics	226.9	227.9	100	345	68	<25	980	380	<50	<250		109000	<0.01
B7	top of mafic flow	227.9	228.9	100	245	43	<25	195	375	<50	<250		56000	<0.01
B7	volcanoclastics	257.0	257.5	100	155	41	<25	<25	50	<50	500		61000	<0.01
B7	volcanoclastics	257.5	258.0	100	190	39	<25	28	90	<50	250		57500	<0.01
B7	volcanoclastics	258.0	259.0	100	180	44	<25	<25	160	<50	<250		64000	<0.01
B7	volcanoclastics	259.0	260.0	100	180	49	<25	<25	190	<50	<250		67500	<0.01

bhid		from m	to m	core recovery %	Ni ppm	Co ppm	Cu ppm	Pb ppm	Zn ppm	As ppm	S ppm	Cr ppm	Fe ppm	Au ppm
B7	volcaniclastics	260.0	261.0	100	335	55	<25	<25	150	<50	<250		77500	<0.01
B7	volcaniclastics	261.0	262.0	100	250	51	<25	<25	110	<50	<250		77500	<0.01
B7	volcaniclastics	262.0	263.0	100	155	50	<25	<25	84	<50	450		69500	<0.01
B7	volcaniclastics	263.0	264.0	100	305	51	<25	<25	220	<50	<250		79000	<0.01
B7	bright green silicate occurrence	286.0	287.0	100	210	23	<25	64	100	<50	<250		27000	<0.01
B7	bright green silicate occurrence	287.0	288.0	100	155	19	<25	<25	58	<50	<250		28500	<0.01
B7	bright green silicate occurrence	288.0	289.0	100	235	34	<25	<25	125	<50	<250		48000	<0.01
B7	volcaniclastics	313.1	314.1	100	165	46	34	<25	215	<50	<250	445	72500	
B7	volcaniclastics	314.1	315.1	100	215	43	<25	36	160	<50	<250	240	67500	
B7	volcaniclastics	315.1	316.1	100	195	61	26	40	125	<50	1050	250	79500	
B7	volcaniclastics	316.1	317.1	100	280	67	105	36	110	<50	5400	485	74500	
B7	volcaniclastics	317.1	318.1	100	305	47	<25	30	130	210	400	1040	74000	
B7	volcaniclastics	318.1	319.1	100	620	150	335	50	165	185	18100	670	96500	
B7	volcaniclastics	319.1	320.1	100	320	60	<25	<25	135	210	<250	1430	76000	
B7	volcaniclastics	320.1	321.1	100	270	49	<25	40	98	55	<250	665	69000	
B7	volcaniclastics	321.1	322.1	100	360	54	26	70	265	<50	850	675	76000	
B7	volcaniclastics	322.1	323.1	100	395	69	<25	30	240	<50	350	660	86000	
B7	volcaniclastics	323.1	324.1	91	285	59	<25	30	155	140	<250	590	80000	
B7	volcaniclastics	324.1	325.1	91	190	37	<25	44	155	<50	<250	685	53000	
B7	volcaniclastics	325.1	326.1	91	255	35	<25	32	205	<50	<250	690	52000	
B7	volcanicalstic	356.5	357.5	100	1970	58	110	180	1490	<50	<250		71500	<0.01
B7	volcanicalstic	373.1	374.1	100	195	35	<25	28	175	<50	600		61500	<0.01
B7	volcanicalstic	374.1	375.1	100	510	64	160	82	330	<50	8650		57500	<0.01
B7	volcanicalstic	375.1	376.1	100	875	84	220	76	435	<50	14200		49500	<0.01
B7	volcanicalstic	376.1	377.1	100	525	73	200	155	390	<50	19200		52500	<0.01
B7	volcanicalstic	377.1	378.1	100	780	76	135	100	435	<50	11500		35500	<0.01
B7	volcanicalstic	378.1	379.1	100	430	57	64	52	280	<50	2250		45000	<0.01

bhid	from m	to m	recovery m	recovery %
B7	0.0	4.0	2.6	65
B7	4.0	6.3	1.4	61
B7	6.3	9.3	2.6	87
B7	9.3	11.7	1.5	63
B7	11.7	13.0	0.8	62
B7	13.0	16.0	3.0	100
B7	16.0	19.0	3.0	100
B7	19.0	21.2	2.2	100
B7	21.2	24.1	2.9	100
B7	24.1	27.5	3.4	100
B7	27.5	31.0	3.3	94
B7	31.0	33.6	2.6	100
B7	33.6	40.6	6.3	90
B7	40.6	42.4	1.8	100
B7	42.4	43.7	0.8	62
B7	43.7	44.5	0.4	50
B7	44.5	45.9	0.6	43
B7	45.9	50.8	5.1	104
B7	50.8	53.1	2.3	100
B7	53.1	56.0	2.9	100
B7	56.0	58.1	2.1	100
B7	58.1	60.5	2.4	100
B7	60.5	62.8	2.3	100
B7	62.8	65.5	2.7	100
B7	65.5	68.2	2.7	100
B7	68.2	71.1	2.9	100
B7	71.1	74.1	3.0	100
B7	74.1	77.5	3.3	97
B7	77.5	80.5	2.7	90
B7	80.5	82.7	2.2	100
B7	82.7	85.6	2.6	90
B7	85.6	89.1	3.5	100
B7	89.1	91.7	2.6	100
B7	91.7	94.8	3.1	100
B7	94.8	97.8	3.0	100
B7	97.8	100.0	1.8	82
B7	100.0	101.0	0.2	20
B7	101.0	104.5	3.0	86
B7	104.5	106.8	2.0	87
B7	106.8	109.8	2.9	97
B7	109.8	113.0	1.4	44
B7	113.0	116.0	2.0	67
B7	116.0	119.5	1.8	51
B7	119.5	122.5	1.3	43
B7	122.5	124.7	0.9	41
B7	124.7	127.7	0.4	13
B7	127.7	131.5	0.5	13
B7	131.5	134.5	1.0	33
B7	134.5	137.5	2.2	73
B7	137.5	139.9	1.8	75
B7	139.9	143.0	2.3	74
B7	143.0	148.3	0.5	9

bhid	from m	to m	recovery m	recovery %
B7	148.3	155.5	0.7	10
B7	155.5	158.5	2.6	87
B7	158.5	161.5	2.8	93
B7	161.5	164.5	3.0	100
B7	164.5	167.5	3.0	100
B7	167.5	170.5	3.0	100
B7	170.5	173.5	3.0	100
B7	173.5	176.5	3.0	100
B7	176.5	179.5	3.0	100
B7	179.5	182.5	3.0	100
B7	182.5	185.5	3.0	100
B7	185.5	188.5	3.0	100
B7	188.5	191.5	3.0	100
B7	191.5	194.1	1.4	54
B7	194.1	196.2	2.1	100
B7	196.2	199.2	3.0	100
B7	199.2	201.5	2.3	100
B7	201.5	203.5	2.0	100
B7	203.5	205.1	1.6	100
B7	205.1	208.0	2.9	100
B7	208.0	209.9	1.9	100
B7	209.9	211.8	1.9	100
B7	211.8	215.0	3.2	100
B7	215.0	218.0	3.0	100
B7	218.0	221.0	3.0	100
B7	221.0	224.0	3.0	100
B7	224.0	227.1	3.0	97
B7	227.1	230.1	3.0	100
B7	230.1	233.2	3.1	100
B7	233.2	236.3	3.1	100
B7	236.3	239.4	3.1	100
B7	239.4	243.8	4.4	100
B7	243.8	246.8	3.0	100
B7	246.8	249.5	2.7	100
B7	249.5	255.4	5.9	100
B7	255.4	257.5	2.1	100
B7	257.5	260.1	2.6	100
B7	260.1	263.1	3.0	100
B7	263.1	266.3	3.1	97
B7	266.3	268.5	2.0	91
B7	268.5	270.8	2.3	100
B7	270.8	272.5	1.7	100
B7	272.5	273.6	1.1	100
B7	273.6	276.5	2.0	69
B7	276.5	278.5	0.3	15
B7	278.5	279.0	0.5	100
B7	279.0	280.0	1.0	100
B7	280.0	281.0	1.0	100
B7	281.0	284.3	3.3	100
B7	284.3	288.5	4.2	100
B7	288.5	291.5	3.0	100
B7	291.5	293.5	2.0	100

bhid	from m	to m	recovery m	recovery %
B7	293.5	296.5	3.0	100
B7	296.5	299.4	2.9	100
B7	299.4	302.5	3.1	100
B7	302.5	305.5	3.0	100
B7	305.5	308.5	3.0	100
B7	308.5	311.5	3.0	100
B7	311.5	314.5	3.0	100
B7	314.5	317.5	3.0	100
B7	317.5	320.5	3.0	100
B7	320.5	323.5	3.0	100
B7	323.5	326.9	3.1	91
B7	326.9	327.7	1.2	150
B7	327.7	329.5	1.8	100
B7	329.5	330.7	1.2	100
B7	330.7	333.7	3.0	100
B7	333.7	335.8	2.1	100
B7	335.8	338.5	2.7	100
B7	338.5	340.7	2.2	100
B7	340.7	343.3	2.6	100
B7	343.3	344.1	0.5	62
B7	344.1	346.0	1.9	100
B7	346.0	348.8	2.8	100
B7	348.8	349.7	0.7	78
B7	349.7	352.2	1.3	52
B7	352.2	353.4	0.9	75
B7	353.4	356.5	1.2	39
B7	356.5	359.5	3.0	100
B7	359.5	361.7	2.2	100
B7	361.7	365.5	1.0	26
B7	365.5	368.1	2.6	100
B7	368.1	371.5	0.5	15
B7	371.5	374.3	2.8	100
B7	374.3	377.0	2.7	100
B7	377.0	380.1	3.1	100
B7	380.1	382.1	2.0	100
B7	382.1	383.0	0.8	89
B7	383.0	386.5	3.5	100
B7	386.5	389.3	2.8	100
B7	389.3	392.4	3.1	100
B7	392.4	393.0	0.6	100
B7	393.0	394.1	1.1	100

END OF HOLE AT 394.1m

Appendix (b)
DDH B7 assays

Project code : Drill Core
Date received : 15/03/04
Date reported : 24/03/04

14 Thirkell
Tasmania 75
Telephone:
Facsimile: (

Lindsay Newnham
Managing Geologist

Allegiance Metals Pty Limited
PO Box 62
ZEEHAN

TAS 7469

Number of pages of results : 2
Number of Samples : 13
First Sample : B7 122.5-124.7
Last Sample : B7 148.3-155.35

Invoice to:
Lindsay Newnham
Managing Geologist

Allegiance Metals Pty Limited
PO Box 62
ZEEHAN

TAS 7469

Electronic Data Transmission :
Modem Y 24/03/04
Facsimile / /
Disk Report Y / /

Results to:

Results to:

Remarks :

Authorised by
On behalf of:

Ricky Gelston
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.

Job Reference : 154909
Project code : Drill Core
Date received : 12/02/04
Date reported : 01/03/04

14 Thirkell
Tasmania 7
Telephone:
Facsimile:

Lindsay Newham
Managing Geologist
Allegiance Metals Pty Limited
PO Box 62
ZEEHAN
TAS 7469

Number of pages of results : 6
Number of Samples : 63
First Sample : B7 155.35-156
Last Sample : B7 378.1-379.1

Invoice to:
Lindsay Newham
Managing Geologist
Allegiance Mining NL
C/Newham Exploration & Mining Service
PO Box 183
EXETER
TAS 7275

Electronic Data Transmission :
Modem Y 01/03/04
Facsimile / /
Disk Report Y / /

Results to:

Results to:

Remarks :

Authorised by
On behalf of:

Ricky Gelston
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.

Your reference : 154909
 Project code : Drill Core
 Report date : 01-03/04
 Report Number : 00000301
 Report status : Final
 Page : of 6

SGS Bur
 ABN 44 00
 14 Thirkell
 Tasmania 7
 Telephone:
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ANALYTICAL DATA

Sample	Au	Au(R)			
*Blk BLANK	<0.01	--			
B7 155-156	<0.01	--			
B7 156-157	<0.01	--			
B7 157-158	<0.01	--			
B7 158-159	<0.01	--			
B7 159-160	<0.01	--			
B7 160-161	<0.01	--			
B7 161-162	<0.01	--			
B7 162-163	<0.01	--			
B7 163-164	<0.01	--			
*SS B7 164-165	<0.01	<0.01			
B7 164-165	<0.01	--			
B7 165-166	<0.01	<0.01			
B7 166-167	<0.01	--			
B7 167-168	<0.01	--			
B7 168-169	<0.01	--			
B7 169-170	<0.01	--			
*Std QFA9	0.75	--			
B7 170-171	<0.01	--			
B7 171-172	<0.01	--			
B7 172-173	<0.01	--			
*Std ST18	<0.01	--			
B7 173-174	<0.01	--			
B7 174-175	<0.01	--			
*Rep B7 165-166	<0.01	--			
*Blk BLANK	<0.01	--			
B7 175-176	<0.01	--			
*Std QFA9	0.73	--			
B7 176-177	<0.01	--			
B7 177-178	<0.01	--			
*Std ST18	2.55	--			
B7 178-179	<0.01	--			
B7 179-180	<0.01	--			
B7 180-181	<0.01	--			
B7 181-182	<0.01	--			
B7 182-183	<0.01	--			
B7 183-184	<0.01	--			
B7 184-185	<0.01	--			
B7 185-186	<0.01	--			
B7 186-187	<0.01	--			
B7 187-188	<0.01	--			
B7 188-189	<0.01	--			
*SS B7 189-190	<0.01	<0.01			
B7 189-190	<0.01	--			
B7 190-191	<0.01	--			
B7 191-192	<0.01	<0.01			
B7 192-192.6	<0.01	--			
B7 225-226	<0.01	--			
B7 226-227	<0.01	--			
*Rep B7 191-192	<0.01	--			
Method Units	F650 ppm	F650 ppm			
Detection Limit	0.01	0.01			

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

Our reference : BLD19719
 Your reference : 154909
 Project code : Drill Core
 Report date : 01/03/04
 Report Number : 00000301
 Report status : Final
 Page : 2 of 6

SGS Bur
 ABN 44 00
 14 Thirkell
 Tasmania 7
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 Facsimile:

ANALYTICAL DATA

Sample	Au	Au(R)				
*Blk BLANK	<0.01	--				
B7 257-257.5	<0.01	--				
B7 257.5-258	<0.01	--				
B7 258-259	<0.01	--				
B7 259-260	<0.01	--				
B7 260-261	<0.01	--				
B7 261-262	<0.01	--				
B7 262-263	<0.01	--				
B7 263-264	<0.01	--				
B7 285-287	<0.01	--				
*Std QFA9	0.72	--				
B7 287-288	<0.01	--				
B7 288-289	<0.01	--				
*Std ST18	2.45	--				
B7 37.4-38.25	<0.01	--				
B7 225.1-225.9	<0.01	--				
B7 225.9-226.9	<0.01	--				
B7 226.9-227.9	<0.01	--				
B7 227.9-228.9	<0.01	--				
B7 356.5-357.5	<0.01	--				
B7 373.1-374.1	<0.01	--				
B7 374.1-375.1	<0.01	<0.01				
B7 375.1-376.1	<0.01	<0.01				
*SS B7 375.1-376.1	<0.01	--				
*Rep B7 374.1-375.1	<0.01	--				
*Blk BLANK	<0.01	--				
*Std QFA9	--	--				
B7 376.1-377.1	<0.01	<0.01				
B7 377.1-378.1	<0.01	--				
*Std ST18	--	--				
*Rep B7 378.1-379.1	<0.01	--				
B7 376.1-377.1	<0.01	--				
Method	F650	F650				
Units	ppm	ppm				
Detection Limit	0.01	0.01				

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

Your reference : 01009719
 Your reference : 154909
 Project code : Drill Core
 Report date : 01/03/04
 Report Number : 01004301
 Report status : Final
 Page : 3 of 6

SGS Bu
 ABN 44 00
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 Tasmania 7
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ANALYTICAL DATA

Sample	Ni	Co	Cu	Pb	Zn
B7 153-156	4770	81	<25	62	2690
B7 156-157	1030	38	140	28	490
B7 157-158	1090	44	80	<25	250
B7 158-159	940	36	<25	<25	275
B7 159-160	610	28	<25	<25	420
B7 160-161	615	26	<25	<25	155
B7 161-162	1400	41	165	38	510
B7 162-163	1210	61	<25	<25	680
B7 163-164	2050	88	<25	70	750
B7 164-165	1470	65	<25	30	540
B7 165-166	1520	68	<25	<25	500
B7 166-167	1430	65	36	<25	1070
B7 167-168	1340	67	<25	<25	1160
B7 168-169	2360	110	82	26	1240
B7 169-170	2850	120	<25	54	1040
B7 170-171	2190	94	<25	28	205
B7 171-172	2630	105	<25	<25	195
B7 172-173	3240	110	<25	<25	295
B7 173-174	2750	97	<25	<25	260
B7 174-175	2690	100	<25	<25	385
B7 175-176	3170	120	<25	<25	480
B7 176-177	5660	125	<25	34	1600
B7 177-178	3620	115	<25	<25	625
B7 178-179	1640	95	<25	<25	155
B7 179-180	2510	110	<25	<25	90
B7 180-181	2090	105	<25	<25	230
B7 181-182	1850	99	<25	<25	215
B7 182-183	1470	69	<25	<25	205
B7 183-184	2550	145	50	<25	395
B7 184-185	1410	70	<25	<25	370
B7 185-186	1620	88	<25	<25	355
B7 186-187	1600	66	<25	<25	220
B7 187-188	1640	65	<25	<25	240
B7 188-189	2030	100	<25	<25	330
B7 189-190	1180	81	<25	<25	240
B7 190-191	2340	105	<25	<25	175
B7 191-192	3000	205	<25	56	385
B7 192-192.6	2290	170	<25	54	385
B7 225-226	215	45	<25	<25	125
B7 226-227	215	48	<25	<25	105
B7 257-257.5	155	41	<25	<25	50
B7 257.5-258	190	39	<25	28	90
B7 258-259	180	44	<25	<25	160
B7 259-260	180	49	<25	<25	190
B7 260-261	335	55	<25	<25	150
*Rep B7 167-168	1350	67	<25	<25	1170
*Rep B7 191-192	2980	205	<25	52	490
*Blk BLANK	125	<10	<25	<25	36
*Std SU JA	1.20%	405	9510	72	210
*Std MHO	5660	230	375	<25	70
Method	1105	1105	1105	1105	1105
Units	ppm	ppm	ppm	ppm	ppm
Detection Limit	10	10	25	25	25

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

Our reference : B019719
 Your reference : 154909
 Project code : Drill Core
 Report date : 31/03/04
 Report Number : 0091301
 Report status : Final
 Page : 6 of 6

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ANALYTICAL DATA

Sample	Ni	Co	Cu	Pb	Zn
B7 261-262	250	51	<25	<25	110
B7 262-263	155	50	<25	<25	84
B7 263-264	305	51	<25	<25	220
B7 286-287	210	23	<25	64	100
B7 287-288	155	19	<25	<25	58
B7 288-289	235	34	<25	<25	125
B7 37.4-38.25	110	36	160	36	145
B7 225.1-225.9	1020	84	<25	60	680
B7 225.9-226.9	320	71	32	240	420
B7 226.9-227.9	345	68	<25	980	380
B7 227.9-228.9	245	43	<25	195	375
B7 356.5-357.5	1970	58	110	180	1490
B7 373.1-373.1	195	35	<25	28	175
B7 374.1-375.1	510	64	160	82	330
B7 375.1-375.1	875	84	220	76	435
B7 376.1-377.1	525	73	200	155	390
B7 377.1-378.1	780	76	135	100	435
B7 378.1-379.1	430	57	64	52	280
*SS B7 164-165	1430	65	<25	<25	610
*SS B7 189-190	1170	87	<25	<25	200
*SS B7 375.1-376.1	835	80	210	72	400
*Rep B7 377.1-378.1	735	72	125	88	385
*Blk BLANK	<10	<10	<25	<25	28
*Std BM 44	1.28%	430	695	<25	120
*Std MISO	5520	225	355	<25	94
Method	I105	I105	I105	I105	I105
Units	ppm	ppm	ppm	ppm	ppm
Detection Limit	10	10	25	25	25

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

Your reference : BL019/19
 Project code : 154909
 Report date : D11 Core
 Report Number : 01/13/04
 Report status : 0010301
 Page : Fin
 of 6

SGS Bur
 ABN 44 00
 14 Thirkell
 Tasmania 7
 Telephone:
 Facsimile: 0

ANALYTICAL DATA

Sample	S	Fe			
B7 155-156	<250	5.25%			
B7 156-157	<250	4.15%			
B7 157-158	<250	3.45%			
B7 158-159	<250	4.10%			
B7 159-160	<250	3.35%			
B7 160-161	<250	3.20%			
B7 161-162	<250	3.60%			
B7 162-163	250	3.60%			
B7 163-164	900	4.15%			
B7 164-165	550	3.20%			
B7 165-166	600	4.05%			
B7 166-167	700	4.15%			
B7 167-168	650	4.75%			
B7 168-169	1300	5.35%			
B7 169-170	1150	6.25%			
B7 170-171	<250	3.85%			
B7 171-172	1100	4.30%			
B7 172-173	1300	3.85%			
B7 173-174	1100	3.45%			
B7 174-175	1150	3.65%			
B7 175-176	750	6.55%			
B7 176-177	<250	9.00%			
B7 177-178	<250	8.30%			
B7 178-179	500	4.25%			
B7 179-180	1050	3.95%			
B7 180-181	700	4.55%			
B7 181-182	350	4.90%			
B7 182-183	<250	4.10%			
B7 183-184	1100	4.80%			
B7 184-185	500	4.20%			
B7 185-186	1000	4.70%			
B7 186-187	600	4.25%			
B7 187-188	750	4.85%			
B7 188-189	700	6.65%			
B7 189-190	<250	5.35%			
B7 190-191	900	7.00%			
B7 191-192	2200	7.80%			
B7 192-192.6	1350	7.05%			
B7 225-226	<250	6.35%			
B7 226-227	450	6.65%			
B7 257-257.5	500	6.10%			
B7 257.5-258	250	5.75%			
B7 258-259	<250	6.40%			
B7 259-260	<250	6.75%			
B7 260-261	<250	7.75%			
*Rep B7 167-168	600	4.70%			
*Rep B7 191-192	2150	7.60%			
*Blk BLANK	<250	840			
*Std SU 1A	7.40%	20.1%			
*StdMHO	1.33%	9.65%			
Method	I105	I105			
Units	ppm	ppm			
Detection Limit	250	100			

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

Our reference : B0019719
 Your reference : 154909
 Project code : DM Core
 Report date : 01/05/04
 Report Number : 00000301
 Report status : Final
 Page : 6 of 6

SGS Bureau
 ABN 44 008
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 Tasmania 75
 Telephone: (0
 Facsimile: (0

ANALYTICAL DATA

Sample	S	Pb			
B7 261-262	<250	7.75%			
B7 262-263	450	6.95%			
B7 263-264	<250	7.90%			
B7 286-287	<250	2.70%			
B7 287-288	<250	2.85%			
B7 288-289	<250	4.80%			
B7 37.4-38.25	1750	7.15%			
B7 225.1-225.9	<250	12.3%			
B7 225.9-226.9	<250	14.6%			
B7 226.9-227.9	<250	10.9%			
B7 227.9-228.9	<250	5.60%			
B7 356.5-357.5	<250	7.15%			
B7 373.1-374.1	600	6.15%			
B7 374.1-375.1	8650	5.75%			
B7 375.1-376.1	1.42%	4.95%			
B7 376.1-377.1	1.92%	5.25%			
B7 377.1-378.1	1.15%	3.55%			
B7 378.1-379.1	2250	4.50%			
*SS B7 164-165	500	3.15%			
*SS B7 189-190	<250	5.00%			
*SS B7 375.1-376.1	1.37%	4.75%			
*Rep B7 377.1-378.1	1.04%	3.30%			
*Blk BLANK	<250	270			
*Std BM 14	2.10%	17.2%			
*StdMHO	1.29%	9.35%			
Method Units Detection Limit	1105 ppm 250	1105 ppm 100			

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

Form reference : 134908
Project code : Drill Core
Date received : 03/02/04
Date reported : 18/02/04

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Lindsay Newnham
Managing Geologist

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Number of pages of results : 3
Number of Samples : 13
First Sample : B7 313.1-314.1
Last Sample : B7 325.1-326.1

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

Authorised by
On behalf of:

Ricky Gelston
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.

Appendix (c)
DDH A 045 log

hole no A045

			at	mag brg	AMG brg as read	AMG brg corrected	AMG brg as used	dip	comments
final depth	406.5	m	0	-	-	-	3.0	-55	Collar bearing and dip are as provided by surveyor.
			30	348.0	361.0	3.0	3.0	-56	All downhole bearings and dips were surveyed using a downhole camera.
east	354,118.79	AMG	60	350.0	363.0	5.0	5.0	-55	
north	5,357,033.02	AMG	90	352.0	365.0	7.0	7.0	-54.5	
rl	2,105.68	m	120	350.0	363.0	5.0	5.0	-53.5	
			150	352.0	365.0	7.0	7.0	-52.5	
PQ			180	351.0	364.0	6.0	6.0	-52	
HQTT			210	356.0	369.0	11.0	6.5	-51	
NQTT			240	352.0	365.0	7.0	7.0	-50	
NQ			270	356.0	369.0	11.0	7.0	-49.5	
NQTT			300	347.0	360.0	2.0	7.0	-49	
commenced	November 2003								
completed	December 2003								
logged by	Mick McKeown								
drilled by	Diamond Drilling Tasmania								
analyses by	SGS								

COMMENTS

Note that 2000m has been added to the actual RL.

SIGNIFICANT INTERSECTIONS

formation	comment	from m	to m	length m	Ni %	S %	Co ppm	Cu ppm	Zn ppm	As ppm
CCF	skarn zone	285.38	295.74	10.36	0.22	1.20	194	268	1641	165
Cum	Viking mineralisation	347.94	353.95	6.01	2.67	0.81	257	54	114	26460

A045	at	bearing as used AMG	dip	from m	to m	down-hole interval	horizontal interval m	vertical interval m	east shift	north shift	easting AMG m	northing AMG m	RL m
HOLE PATH													
					collar						354,118.8	5,357,033.0	2,105.7
	0.0	3.0	-55.0	0.0	15.0	15.0	8.6	-12.3	0.5	8.6	354,119.2	5,357,041.6	2,093.4
	30.0	3.0	-56.0	15.0	45.0	30.0	16.8	-24.9	0.9	16.8	354,120.1	5,357,058.4	2,068.5
	60.0	5.0	-55.0	45.0	75.0	30.0	17.2	-24.6	1.5	17.1	354,121.6	5,357,075.5	2,043.9
	90.0	7.0	-54.5	75.0	105.0	30.0	17.4	-24.4	2.1	17.3	354,123.7	5,357,092.8	2,019.5
	120.0	5.0	-53.5	105.0	135.0	30.0	17.8	-24.1	1.6	17.8	354,125.3	5,357,110.6	1,995.4
	150.0	7.0	-52.5	135.0	165.0	30.0	18.3	-23.8	2.2	18.1	354,127.5	5,357,128.7	1,971.6
	180.0	6.0	-52.0	165.0	195.0	30.0	18.5	-23.6	1.9	18.4	354,129.5	5,357,147.1	1,948.0
	210.0	6.5	-51.0	195.0	225.0	30.0	18.9	-23.3	2.1	18.8	354,131.6	5,357,165.8	1,924.7
	240.0	7.0	-50.0	225.0	255.0	30.0	19.3	-23.0	2.4	19.1	354,133.9	5,357,185.0	1,901.7
	270.0	7.0	-49.5	255.0	285.0	30.0	19.5	-22.8	2.4	19.3	354,136.3	5,357,204.3	1,878.9
	300.0	7.0	-49.0	285.0	315.0	30.0	19.7	-22.6	2.4	19.5	354,138.7	5,357,223.8	1,856.2
check sums and differences						315.0	191.9	-249.5	19.9	190.8	19.9	190.8	-249.5

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 PROJECT Avebury Project
 HOLE NUMBER A045

from m	to m	description	from m	to m	Ni %	S %	Cu ppm	Co ppm	Zn ppm	As ppm	Cr ppm
0.00	11.10	VERY WEATHERED SILTSTONE Light to dark grey, thinly bedded siltstone (very fine grained volcaniclastic?) with occasional sand sized band; very weathered to extremely weathered, claystone in part; with abundant iron-staining on joints and fractures. The interval is extremely broken to puggy. BCA at 3.2m = 20 degrees. The contact with the next interval is sharp but broken.									
11.10	26.80	WEATHERED SILTSTONE Light to dark grey, thinly bedded siltstone (very fine grained volcaniclastic) with common iron-staining on joints and fractures; microfaulted fabric in part. The 30cm of clay and sand recovered in the first part of the run caved from higher in the hole. BCA at 11.6m = 35 degrees. BCA at 24.2m = 30 degrees. BCA at 26.8m = 40 degrees. 24.2m: 10cm long graded bed from sand to fine sand indicates facing is up hole. 26.8m: 10cm long graded bed from sand to silt and ripple/sole? marks indicate facing is up hole. The interval is extremely broken to rubbly. The contact with the next interval is sharp but broken.									
26.80	27.50	VERY WEATHERED SILTSTONE As from 0.0m to 11.1m. BCA is obscure - the core is extremely broken. The interval is extremely broken to puggy. The contact with the next interval is sharp but broken.									
27.50	28.60	SKARN AND FAULT Very weathered, abundantly ironstained, quartz-axinite-actinolite skarn and a fault: 27.5m to 27.9m: quartz axinite skarn.									

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 HOLE NUMBER A045

from m	to m	description	from m	to m	Ni %	S %	Cu ppm	Co ppm	Zn ppm	As ppm	Cr ppm
		27.9m to 28.1m: breccia of actinolitic fragments in actinolitic matrix at 45 degrees to the core axis. 28.1m to 28.6m: quartz-axinite-actinolite skarn. The interval is broken and puggy. The contact with the next interval is sharp at a high angle to the core axis and is marked by 3cm of iron-stained pug.									
28.60	66.10	SILTSTONE (90%) AND HORNFELSESED SILTSTONE (10%) Light to dark grey siltstone (very fine grained volcanoclastic?) (90%) and dark brown, hornfelseled siltstone and cherty siltstone (10%), thinly bedded; with trace iron-staining on joints, sparse crystalline pyrite on joints, trace disseminated pyrite, sparse actinolite as veinlets, veins and bands up to 20cm long, sparse serpentine on joints, sparse pyrrhotite as disseminations and flecks accumulated along bedding in places. 59.25m: 1cm true thickness puggy serpentine band parallel to bedding at 45 degrees to the core axis. BCA at 35.0m = 35 degrees. BCA at 51.4m = 45 degrees. BCA at 64.3m = 45 degrees. The interval is broken to extremely broken. The contact with the next interval is sharp at 65 degrees to the core axis.									
66.10	94.90	AGGLOMERATE Dark green (groundmass) and white to cream (fragments) mafic (actinolitic?) agglomerate: rounded to ragged, spherical to elongate siliceous fragments in an actinolitic groundmass; with sparse calcite as stringers, sparse schorl as flecks and small patches, common pyrrhotite as flecks and patches, sparse pyrite as stringers and patches, trace chalcopyrite as flecks associated with pyrrhotite, sparse pervasive phlogopite as brownish patches. BCA is obscure - did not exist/has been destroyed, except near contact at 94.9m. BCA at 94.8m = 45 degrees. The interval is broken. The contact with the next interval is gradational (lithological).									

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 PROJECT Avebury Project
 HOLE NUMBER A045

from m	to m	description	from m	to m	Ni %	S %	Cu ppm	Co ppm	Zn ppm	As ppm	Cr ppm
94.90	124.64	SILTSTONE Light to dark grey, thinly bedded siltstone (very fine grained volcanoclastic?) with sparse calcite as stringers and veinlets, sparse pyrrhotite as flecks, sparse phlogopite pervasive in some bedded layers, trace crystalline pyrite on joints. 109.35m: 3cm true thickness, vuggy vein of soft, white, crystalline mineral (not calcite) at 60 degrees to the core axis. BCA at 96.6m = 40 degrees. BCA at 99.6m = 45 degrees. BCA at 119.7m = 30 degrees. The interval is broken to very broken. The contact with the next interval is sharp and faulted at 45 degrees to the core axis.									
120.64	121.12	FAULT Light grey, angular, siliceous fragments in a calcite matrix, slightly vuggy in part. The interval is broken. The contact with the next interval is sharp and faulted at 45 degrees to the core axis.									
121.12	132.80	VOLCANICLASTIC Grey, brown grey and brown, very fine grained to fine grained volcanoclastic, cherty in places, with trace pyrite as flecks and disseminations accumulated along bedding in places, trace crystalline pyrite on joints, trace calcite as stringers, trace quartz as small patches and veins, sparse pyrrhotite associated with quartz and accumulated along bedding. BCA at 126.0m = 50 degrees. BCA at 128.6m = 45 degrees. The interval is very broken to extremely broken. The contact with the next interval is sharp at 55 degrees to the core axis.									
132.80	159.20	AGGLOMERATE (70%) AND CHERTY VOLCANICLASTIC (30%) Inter-layered agglomerate as from 66.1m to 94.9m (70%) and grey, dark grey and brown cherty volcanoclastic and chert (30%), layering directions are generally at mid-angles to the core axis but are all over the place; with sparse pyrrhotite as flecks, small patches and stringers, trace crystalline pyrite on joints.									

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 HOLE NUMBER A045

from m	to m	description	from m	to m	Ni %	S %	Cu ppm	Co ppm	Zn ppm	As ppm	Cr ppm
		BCA is obscure - did not exist/has been destroyed, but see comment in description above.									
		The interval is broken.									
		The contact with the next interval is gradational (lithological) - last of the cherty bands.									
159.20	172.15	AGGLOMERATE									
		Agglomerate as from 66.1m to 94.9m.									
		The interval is broken.									
		The contact with the next interval is gradational (lithological).									
172.15	202.32	AGGLOMERATE (80%) AND ACTINOLITE SKARN (20%)									
		Intermixed partly skarnised agglomerate (80%) and actinolite skarn (20%): the agglomerate is as described from 159.2m to 172.15m with occasional calcareous clasts and with common locally abundant actinolite in the groundmass, grading to actinolite skarn; agglomerate with trace calcite and quartz as stringers and veinlets, trace crystalline pyrite on joints, sparse axinite as small patches and patches and replacing parts of some clasts, sparse, locally common, sphalerite as flecks, sparse phlogopite as stringers and pervasive in patches; skarn with sparse, locally common, pyrrhotite as fleck and small patches, sparse sphalerite as flecks, sparse axinite as small patches.									
		BCA at 186.5m = 30 degrees. BCA at 186.7m = 30 degrees. BCA at 196.8m = 35 degrees.									
		The interval is relatively unbroken.									
		The contact with the next interval is gradational - lithology change.									
202.32	205.07	VOLCANICLASTIC									
		Dark brown (phlogopite?) and brown-grey, very fine grained volcaniclastic (tending to siltstone) with sparse pyrrhotite as stringers and disseminations, trace crystalline pyrite on joints, sparse calcite as stringers and as a vuggy vein from 203.94m to 204.00m at 45 degrees to the core axis.									
		BCA at 203.7m = 50 degrees. BCA at 204.1m = 45 degrees.									

COMPANY Allegiance Mining NL
 PROJECT Avebury Project
 HOLE NUMBER A045

from m	to m	description	from m	to m	Ni %	S %	Cu ppm	Co ppm	Zn ppm	As ppm	Cr ppm
		The interval is extremely broken.									
		The contact with the next interval is gradational - lithology change.									
205.07	210.70	AGGLOMERATE									
		Agglomerate as from 172.15m to 202.32m.									
		BCA is obscure - there is no layering in the agglomerate.									
		The interval is relatively unbroken.									
		The contact with the next interval is sharp but broken.									
210.70	223.20	VOLCANICLASTIC									
		Dark brown (phlogopite) and brown-grey very fine grained volcaniclastic as from 202.32m to 205.07m and one 10cm long band of agglomerate, with trace quartz as stringers and veinlets, trace crystalline pyrite on joints, sparse pyrrhotite as fine flecks and disseminations and accumulated along bedding in rare thin bands.									
		BCA at 212.4m = 55 degrees.									
		BCA at 214.4m = 70 degrees.									
		BCA at 217.7m = 60 degrees.									
		BCA at 220.8m = 65 degrees.									
		The interval is extremely broken and core losses have occurred:									
		210.7m to 216.8m: zero core loss.									
		216.8m to 217.0m: 0.15m core loss.									
		217.0m to 217.6m: zero core loss.									
		217.6m to 218.2m: zero core loss.									
		218.2m to 219.8m: 0.7m core loss.									
		219.8m to 221.4m: zero core loss.									
		221.4m to 223.2m: zero core loss.									
		The contact with the next interval is sharp but broken.									
223.20	234.40	AGGLOMERATE									
		Skamised agglomerate as from 172.15m to 202.32m plus sparse serpentine on joints, slickensided in places.									
		The interval is extremely broken to rubbly and core losses have occurred:									
		223.2m to 225.3m: 0.4m core loss.									
		225.3m to 226.9m: 0.7m core loss.									
		226.9m to 227.9m: 0.1m core loss.									

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 PROJECT Avebury Project
 HOLE NUMBER A045

from m	to m	description	from m	to m	Ni %	S %	Cu ppm	Co ppm	Zn ppm	As ppm	Cr ppm
		<p>227.9m to 228.4m: 0.3m core loss. 228.4m to 228.9m: 0.3m core loss. 228.9m to 230.5m: 0.7m core loss. 230.5m to 232.1m: zero core loss. 232.1m to 234.4m: 0.7m core loss.. Water was probably hit in this interval. BCA at 234.1m = 40 to 45 degrees.</p> <p>The contact with the next interval is gradational - lithology change.</p>									
234.40	236.84	VOLCANICLASTIC									
		<p>Volcaniclastic as from 210.70m to 223.2m; very broken but with no core loss.</p> <p>BCA is obscure - no bedding planes can be seen.</p> <p>The interval is very broken.</p> <p>The contact with the next interval is sharp but broken.</p>									
236.84	245.71	AGGLOMERATE									
		<p>Agglomerate as from 223.2m to 234.4m but with only trace phlogopite.</p> <p>BCA is obscure - no bedding planes can be seen.</p> <p>The interval is relatively unbroken.</p> <p>The contact with the next interval is sharp at 65 degrees to the core axis.</p>									
245.71	246.65	VOLCANICLASTIC									
		<p>Volcaniclastic as from 234.4m to 236.84m.</p> <p>BCA at 246.3m = 70 degrees.</p> <p>The interval is broken.</p> <p>The contact with the next interval is sharp at 65 degrees to the core axis.</p>									
246.65	250.40	AGGLOMERATE									
		<p>Agglomerate as from 246.65m to 250.40m.</p> <p>BCA is obscure - no bedding planes can be seen</p>									

COMPANY Allegiance Mining NL
 PROJECT Avebury Project
 HOLE NUMBER A045

from m	to m	description	from m	to m	Ni %	S %	Cu ppm	Co ppm	Zn ppm	As ppm	Cr ppm
		The contact with the next interval is sharp but broken.									
250.4	252.27	SKARN Dark green (actinolite), green-cream (diopside and quartz) and white (calcite) actinolite skarn with abundant crystalline calcite as vuggy veinlets and patches, minor pyrrhotite as flecks, trace chalcopyrite associated with pyrrhotite, minor black tourmaline as flecks and small patches, trace serpentine on joints. BCA is obscure - bedding has been destroyed / did not exist. The interval is very rubbly but there is no core loss; Water was probably hit in this interval. The contact with the next interval is sharp but broken.									
252.27	260.1	VOLCANICLASTIC Volcaniclastic as from 245.71m to 250.4m with sparse quartz as veinlets and lace veining, trace serpentine on joints, trace pyrrhotite and pyrite associated with quartz, trace crystalline pyrite on joints, abundant pervasive phlogopite. BCA at 254.1m = 75 degrees. BCA at 257.2m = 75 degrees. The interval is broken. The contact with the next interval is gradational - lithology.									
260.1	285.38	AGGLOMERATE (50%) AND VOLCANICLASTIC (50%) Intermixed agglomerate (50%) and volcaniclastic (50%): agglomerate with dark brown (phlogopite) and dark green (actinolite) groundmass; dark brown (phlogopite), very fine grained to fine grained; this is a very altered rock with abundant phlogopite and actinolite and actinolite content increases towards 285.38m; with trace quartz and calcite as stringers and veinlets, trace crystalline pyrite on joints, minor pyrrhotite as stringers, flecks, small patches and patches throughout, sparse serpentine in fault and on joints. 268.1m to 269.0m: 1cm true thickness fault at 5 degrees to the core axis: dark green serpentinite clasts in serpentine matrix. BCA at 266.9m = 50 degrees. BCA at 267.8m = 55 degrees. The interval is broken and extremely broken along the fault from 268.1m to 269.0m									

COMPANY Allegiance Mining NL
 PROJECT Avebury Project
 HOLE NUMBER A045

from m	to m	description	from m	to m	Ni %	S %	Cu ppm	Co ppm	Zn ppm	As ppm	Cr ppm
		The contact with the next interval is gradational - lithology / actinolite content.									
285.38	295.74	SKARN	285.38	286.38	0.19	0.49	155	240	570	290	
			286.38	287.38	0.17	0.85	290	185	165	245	
		Mottled light green, dark green-grey, green-cream, cream and faintly purple (axinite) calc-silicate skarn (not calc-silicate host rock) with crystalline fabric in part; with minor, locally abundant, schorl as flecks, small patches and patches, trace calcite as stringers, sparse quartz as stringers, veinlets and veins, minor pyrrhotite as flecks, small patches and stringers, trace chalcopyrite associated with pyrrhotite, trace molybdenite associated with chalcopyrite, sparse sphalerite (marmatite) as flecks and stringers.	287.38	288.38	0.26	1.51	390	240	120	155	
			288.38	289.38	0.35	1.86	200	250	115	105	
			289.38	290.38	0.33	2.05	180	250	135	60	
			290.38	291.38	0.15	0.74	76	145	170	110	
			291.38	292.38	0.21	1.07	92	185	470	190	
			292.38	293.38	0.41	2.25	585	235	1340	265	
			293.38	294.38	0.17	1.43	560	180	12200	190	
			294.38	295.74	0.05	0.11	180	74	1260	72	
		BCA is obscure - bedding has been destroyed.									
		The interval is broken.									
		The contact with the next interval is sharp but irregular.									
295.74	347.94	TALC-PHLOGOPITE ROCK (ALTERED ULTRAMAFIC?)									
		Grey and brown-grey, soft, altered, talc-phlogopite rock with sparse quartz and calcite as stringers and lace veining, sparse serpentine as stringers and veinlets and on joints, sparse pyrrhotite as disseminations, flecks and small patches, trace pentlandite? as fine flecks, trace chalcopyrite as fine flecks associated with pyrrhotite, trace magnetite as rare stringers, for example near 304.6m; calcite and quartz veinlets are vuggy towards 347.93m.									
		This rock could be an altered ultramafic.									
		318.94m to 318.97m: serpeninite breccia with serpentine pug.									
		BCA is obscure - bedding has been destroyed / did not exist.									
		The interval is broken to extremely broken.									
		The contact with the next interval is gradational - degree of alteration.									
347.94	353.95	CALC-SILCATE HOST ROCK	347.94	349.00	0.89	0.20	32	88	125	9220	
			349.00	350.00	0.69	0.14	48	96	195	7190	
		Mottled light green, brown, green-grey and grey calc-silicate host rock (diopside?-quartz-epidote? rock) with minor pink niccolite as stringers, flecks, small patches and patches, sparse schorl as flecks, small patches and patches, sparse calcite as stringers and veinlets, trace serpentine on joints.	350.00	351.00	1.78	0.73	36	185	86	14800	
			351.00	352.00	5.65	1.89	100	530	115	55500	
			352.00	353.00	6.10	1.65	78	515	52	63000	
			353.00	353.95	0.94	0.27	28	130	110	9220	
		The rock has a high density.									

COMPANY Allegiance Mining NL
 PROJECT Avebury Project
 HOLE NUMBER A045

from m	to m	description	from m	to m	Ni %	S %	Cu ppm	Co ppm	Zn ppm	As ppm	Cr ppm
		BCA is obscure - bedding has been destroyed / did not exist.									
		The interval is broken to extremely broken.									
		The contact with the next interval is sharp but broken and is marked by a 5cm broken zone which includes a 1cm calcite vein.									
353.95	356.10	SEDIMENTARY BRECCIA	353.95	355.00	0.09	0.19	70	66	98	135	
		A breccia of white, cream, grey, black and rare bright green clasts in a grey and green matrix: the clasts are poorly sorted, angular to slightly rounded (corroded?) up to 2cm across and are siliceous to cherty, some clasts show remnant bedding; with trace calcite and quartz as stringers and veinlets, trace pyrite on joints, sparse pentlandite/pyrrhotite as fine flecks and stringers.	355.00	356.10	0.09	0.44	125	76	310	300	
		This could be an explosion breccia.									
		BCA is obscure - no layers have been formed (but see below at 361.8m).									
		The interval is very broken.									
		The contact with the next interval is sharp but broken.									
356.10	357.40	SKARN	356.10	357.40	0.52	0.74	60	105	155	945	
		Mottled light and dark green actinolite skarn with minor tourmaline as stringers, sparse calcite and quartz as stringers and veinlets, sparse pentlandite/pyrrhotite as flecks.									
		BCA is obscure - bedding has been destroyed.									
		The interval is broken.									
		The contact with the next interval is sharp but broken.									
357.40	384.10	SEDIMENTARY BRECCIA	357.40	358.00	0.16	0.13	34	64	230	710	
		This is the continuation of the breccia from 354.00m to 356.10m; the breccia here also contains common phlogopite and actinolite becoming more abundant towards 384.10m as pervasive content in the matrix, phlogopite also occurs as alteration rims around some fragments; with trace calcite and quartz as stringers and veinlets, trace pyrite on joints, sparse, locally common, pyrrhotite/pentlandite as fine flecks and flecks throughout and as abundant fine disseminations in some clasts, trace chalcopyrite as fine flecks associated with pyrrhotite.	358.00	359.00	0.06	0.59	140	78	345	46	
			359.00	360.00	0.05	0.51	170	70	105	X	
			360.00	361.00	0.03	0.82	210	70	230	X	
			361.00	362.00	0.03	0.83	195	72	185	26	
			362.00	363.00	0.03	1.66	250	74	220	X	
			363.00	364.00	0.03	1.04	135	62	105	26	
			364.00	365.00	0.03	1.10	155	56	110	X	
			365.00	366.00	0.03	0.63	98	50	125	X	
			366.00	367.00	0.02	0.62	115	52	68	X	

COMPANY Allegiance Mining NL
 PROJECT Avebury Project
 HOLE NUMBER A045

from m	to m	description	from m	to m	Ni %	S %	Cu ppm	Co ppm	Zn ppm	As ppm	Cr ppm
		BCA at 361.8m = 45 degrees (thin silty band).	367.00	368.00	0.03	0.96	180	72	26	X	
			368.00	369.00	0.02	0.19	40	46	70	62	
		The interval is broken.	369.00	370.00	0.03	0.56	170	60	115	X	
			370.00	371.00	0.02	0.75	165	60	76	26	
		The contact with the next interval is gradational (lithological).	371.00	372.00	0.03	0.55	110	62	74	80	
			372.00	373.00	0.02	0.40	88	50	82	82	
			373.00	374.00	0.03	1.04	170	70	70	42	
			374.00	375.00	0.02	1.03	150	54	76	X	
			375.00	376.00	0.02	0.94	105	50	72	X	
			376.00	377.00	0.03	1.01	115	54	84	X	
			377.00	378.00	0.05	1.94	260	70	98	X	
			378.00	379.00	0.02	1.47	130	58	66	X	
			379.00	380.00	0.02	0.76	110	54	245	X	
			380.00	381.00	0.02	0.93	185	56	400	X	
			381.00	382.00	0.01	1.23	165	64	82	X	
			382.00	383.00	0.02	0.36	62	42	70	X	
			383.00	384.10	0.04	0.80	90	66	44	34	

384.10 406.50 VOLCANICLASTIC

Interbedded brown (phlogopite), green (actinolite) and grey, very fine grained, hornfelsed volcaniclastic, cherty in places; with trace calcite as stringers and veinlets, sparse quartz as stringers, veinlets and small patches, trace crystalline pyrite on joints, abundant pervasive phlogopite, common pervasive actinolite, common pyrrhotite as stringers, veinlets, lace veining and fine flecks, more common in brown, finer grained units.

The interval has pseudo (hydrothermal)-brecciated fabric in part.

BCA is obscure - bedding has been destroyed by brecciation or obscured by alteration.

The interval is broken.

END OF HOLE AT 406.5m.

Appendix (d)
A 045 assays

A045 347.94-349	9700	70	0.18	9550
A045 349-350	7600	80	0.09	7450
A045 350-351	1.90%	160	0.70	1.47%
A045 351-352	6.11%	550	1.99	5.57%
A045 352-353	6.40%	490	1.68	6.25%
A045 353-353.95	1.03%	100	0.25	9400
A045 353.95-355	1000	40	0.20	150
A045 355-356.1	1000	50	0.42	300
A045 356.1-357.4	5400	110	0.64	900
A045 357.4-358	1750	40	0.11	800
A045 358-359	650	70	0.59	150
A045 359-360	L.N.R.	L.N.R.	L.N.R.	L.N.R.
A045 357.4-358 DUP	1800	40	0.11	800

UNITS	ppm	ppm	%	ppm
DET.LIM	50	20	0.01	50
SCHEME	MET1	MET1	MET1	MET1

DETECTION	20	19	18	17	20	20
METHOD	1105	1105	1105	1105	1105	1105
COHOD"	1105	1105	1105	1105	1105	1105
COHOD"	1105	1105	1105	1105	1105	1105
A045 347.94-349.0	8850	88	32	125	9220	2020
A045 349.0-350.0	6930	96	48	195	7190	1370
A045 350.0-351.0	17800	185	36	86	14800	7300
A045 351.0-352.0	56500	530	100	115	55500	18900
A045 352.0-353.0	61000	515	78	52	63000	16500
A045 353.0-353.95	9430	130	28	110	9220	2680
A045 353.95-355.0	935	66	70	98	135	1930
A045 355.0-356.1	905	76	125	310	300	4360
A045 356.1-357.4	5230	105	60	155	945	7420
A045 357.4-358.0	1600	64	34	230	710	1340
A045 358.0-359.0	595	78	140	345	46	5940
A045 359.0-360.0	470	70	170	105	-25	5100
A045 360.0-361.0	340	70	210	230	-25	8210
A045 361.0-362.0	320	72	195	185	26	8310
A045 362.0-363.0	290	74	250	220	-25	16600
A045 363.0-364.0	270	62	135	105	26	10400
A045 364.0-365.0	285	56	155	110	-25	11000
A045 365.0-366.0	255	50	98	125	-25	6290
A045 366.0-367.0	210	52	115	68	-25	6200
A045 367.0-368.0	250	72	180	26	-25	9560
A045 368.0-369.0	210	46	40	70	62	1890
A045 369.0-370.0	270	60	170	115	-25	5640
A045 370.0-371.0	240	60	165	76	26	7520
A045 371.0-372.0	250	62	110	74	80	5510
A045 372.0-373.0	215	50	88	82	82	3980
A045 373.0-374.0	250	70	170	70	42	10400
A045 374.0-375.0	240	54	150	76	-25	10300
A045 375.0-376.0	225	50	105	72	-25	9360
A045 376.0-377.0	255	54	115	84	-25	10100
A045 377.0-378.0	455	70	260	98	-25	19400
A045 378.0-379.0	205	58	130	66	-25	14700
A045 379.0-380.0	195	54	110	245	-25	7620
A045 380.0-381.0	215	56	185	400	-25	9280
A045 381.0-382.0	145	64	165	82	-25	12300
A045 382.0-383.0	180	42	62	70	-25	3590
A045 383.0-384.1	375	66	90	44	34	7950
A045 285.38-286.38	1880	240	155	570	290	4880
A045 286.38-287.38	1680	185	290	165	245	8510
A045 287.38-288.38	2600	240	390	120	155	15100
A045 288.38-289.38	3490	250	200	115	105	18600
A045 289.38-290.38	3270	250	180	135	60	20500
A045 290.38-291.38	1480	145	76	170	110	7360
A045 291.38-292.38	2140	185	92	470	190	10700
A045 292.38-293.38	4140	235	585	1340	265	22500
A045 293.38-294.38	1660	180	560	12200	190	14300
A045 294.38-295.74	510	74	180	1260	72	1100

Mr Mick McKeown
McKeown Mining Pty Ltd
PO Box 50
RIDGLEY TAS 7321

FINAL ANALYSIS REPORT

Your Order No:

Our Job Number:

Sample rec'd: 09/02/04

Results reported:

No. of samples: 13

Results apply to sample(s) as submitted by the client.

Report comprises a cover sheet and pages: 1 to 1

Approved Signature:



for
Alan Ciplys
Manager, Geoanalytical Central Region

Report Codes:

N.A. - Not Available
L.N.R. - Listed But Not Received
I.S. - Insufficient Sample

Distribution Codes:

CC - Carbon Copy
EM - Electronic Media
MM - Magnetic Media

Our reference : BU019674
 Your reference : 154907
 Project code : Drill Core
 Report date : 16/01/04
 Report Number : 00000263
 Report status : Final
 Page : 1 of 1

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ANALYTICAL DATA

Sample	Ni	Co	Cu	Zn	As
A045 347.94-349.0	8850	88	32	125	9220
A045 349.0-350.0	6930	96	48	195	7190
A045 350.0-351.0	1.78%	185	36	86	1.48%
A045 351.0-352.0	5.65%	530	100	115	5.55%
A045 352.0-353.0	6.10%	515	78	52	6.30%
A045 353.0-353.95	9430	130	28	110	9220
A045 353.95-355.0	935	66	70	98	135
A045 355.0-356.1	905	76	125	310	300
A045 356.1-357.4	5230	105	60	155	945
A045 357.4-358.0	1600	64	34	230	710
A045 358.0-359.0	595	78	140	345	46
A045 359.0-360.0	470	70	170	105	<25
A045 360.0-361.0	340	70	210	230	<25
A045 361.0-362.0	320	72	195	185	26
A045 362.0-363.0	290	74	250	220	<25
A045 363.0-364.0	270	62	135	105	26
A045 364.0-365.0	285	56	135	110	<25
A045 365.0-366.0	255	50	98	125	<25
A045 366.0-367.0	210	52	115	68	<25
A045 367.0-368.0	250	72	180	26	<25
A045 368.0-369.0	210	46	40	70	62
A045 369.0-370.0	270	60	170	115	<25
A045 370.0-371.0	240	60	165	76	26
A045 371.0-372.0	250	62	110	74	80
A045 372.0-373.0	215	50	88	82	82
A045 373.0-374.0	250	70	170	70	42
A045 374.0-375.0	240	54	150	76	<25
A045 375.0-376.0	225	50	105	72	<25
A045 376.0-377.0	255	54	115	84	<25
A045 377.0-378.0	455	70	260	98	<25
A045 378.0-379.0	205	58	150	66	<25
A045 379.0-380.0	195	54	110	245	<25
A045 380.0-381.0	215	56	185	400	<25
A045 381.0-382.0	145	64	165	82	<25
A045 382.0-383.0	180	42	62	70	<25
A045 383.0-384.1	375	66	90	44	34
A045 285.38-286.38	1880	240	155	570	290
A045 286.38-287.38	1680	185	290	165	245
A045 287.38-288.38	2600	240	390	120	155
A045 288.38-289.38	3490	250	200	115	105
A045 289.38-290.38	3270	250	180	135	60
A045 290.38-291.38	1460	145	76	170	110
A045 291.38-292.38	2140	185	92	470	190
A045 292.38-293.38	4140	235	585	1340	265
A045 293.38-294.38	1660	180	560	1.22%	190
A045 294.38-295.74	510	74	180	1260	72
Method Units Detection Limit Upper Method	1105 ppm 25	1105 ppm 15	1105 ppm 15	1105 ppm 15	1105 ppm 25 1105

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