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Annual report for the period ending 31 July 999 - Bulgobac Hill EL 37/89 and Bulgobac River EL 19/94
Pasminco Exploration*
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PASMINCO EXPLORATION

BULGOBAC HILL EL 37/89 and BULGOBAC RIVER EL 19/94

ANNUAL REPORT
FOR THE PERIOD ENDING 31st JULY 1999

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163002

CONTENTS

163003

LIST OF TABLES

LIST OF FIGURES

LIST OF APPENDICES

1. SUMMARY

Work undertaken during the reporting period within EL 37/89, Bulgobac Hill, has been carried out dominantly within the Tullabardine prospect area. Exploration activities have included:

- Interpretation of previous infill Partial Leach Soil Sampling
- Minor "C" horizon soil sampling
- Geological mapping and rock chip sampling

The main focus of work carried out within EL 19/94 (Bulgobac River) was on the High Point prospect. Exploration activities comprised:

- Grid cutting
- Partial leach soil sampling

2. INTRODUCTION

This report details work undertaken on the Bulgobac Hill (EL 37/89) and Bulgobac River (EL 19/94) exploration licences, between August 1998 and August 1999.

The Bulgobac Hill license covers a portion of the Cambrian Mt Read Volcanics to the south and west of the Hellyer Mining lease in Western Tasmania (Figure 4). The principal exploration targets sought within the license area are Hellyer-type or Rosebery type volcanogenic Pb-Zn-Cu-Ag-Au massive sulphide deposits. The Que-Hellyer Volcanics, which host the Hellyer and Que River mines, extend into the license area. The Hellyer mine lies 5km to the east of the Bulgobac Hill EL boundary (Figure 4). No outcropping mineralisation has been located in the area. The terrain is heavily vegetated, rugged and poorly accessible. Access into the area is provided by a few overgrown 4WD tracks, along foot tracks, cut grid lines or via boat on Lake Mackintosh.

Exploration activities undertaken during this period have mainly been completed on the Bulgobac Hill license and in particular on the Tullabardine prospect area. Work completed has included interpretation of previous infill partial leach soil sampling, "C" horizon soil sampling, geological mapping and rock chip sampling. Work completed within the Bulgobac River EL has consisted of grid cutting and partial leach soil sampling at the High Point prospect.

Although the old prospectors found no mineralised showings on the EL, near-continuous exploration over the past 30 years has discovered three zinc occurrences within the volcanics:

- High Point (found by BHP in 1988 during drilling of an EM anomaly. BHP drilled 4 holes 1988-89).
- Sock Creek (detected 1973 by drainage survey by Comstaff, who drilled 14 holes prior to 1978).
- Sock Creek South (found by BHP in 1988 during drilling of an EM anomaly. 4 holes were drilled in 1988-89).

Pasminco's involvement in this area commenced in 1990 and has been concentrated on testing the mineralised Que-Hellyer Volcanics at High Point. Previous exploration (prior to Pasminco's involvement) was largely carried out during the period 1963-1989 by Comstaff. BHP completed 4 diamond holes in the late 1980's to test the Hellyer host position at High Point and Pasminco has completed a total of 6 diamond drill holes (BHD 1, 2,3, 5 & 6) totalling 4,374m in the High Point area to further test this horizon. A deep hole (BHD4, 617m) was also completed at Sock Creek in 1993. The EL has been covered with detailed aeromagnetics, photogrammetry and regional-scale gravity surveys.

3. LAND TENURE

The Bulgobac Hill Exploration Licence 37/89, covering 32sq km, was granted to Pasminco Mining Rosebery in March 1990 (Figure 1). In August 1990 the licence was transferred to Pasminco Exploration.

In May 1992 and October 1993, EL 37/89 was increased to 49sq km by the addition of 7sq km in the Lake Mackintosh area (EL 17/92) and 10sq km in the South Mt Charter area (EL 7/93).

On 2nd September 1995, EL 37/89 was reduced to 28sq km (Purvis, 1995b). The reduced EL is comprised of almost entirely unallocated Crown Land (Figure 2).

Bulgobac River EL 19/94, covering 21km^2, was granted to Pasminco Australia Limited in January 1995 (Figure 1). The licence is renewable annually on the 6th January. The licence is on unallocated Crown Land, designated as multiple use forest (Figure 3).

4. GEOLOGY

4.1 Bulgobac Hill EL 37/89

EL 37/89 covers two main groups of the Cambrian Mt Read Volcanics - the Central Volcanic Complex (CVC), and correlates of the Dundas Group. A small sliver of the Farrell Slates, east of the Henty Fault, occurs in the SE part of the EL (Figure 5).

The Central Volcanic Complex covers the southern part of the EL and comprises rhyodacitic lavas, porphyries and volcaniclastics (mostly pyroclastics with minor epiclastics). These rocks are known as the Mt Block Volcanics.

The Dundas Group and correlates cover the northern half of the EL. They comprise the Que-Hellyer Volcanics (a mafic volcanic complex), sediments (including the Animal Creek Greywacke, Que River Shale and Southwell SubGroup), quartz-feldspar porphyry bodies, and rhyodacitic volcanics (mainly lavas). The relationship between the various units is shown in Figure 6.

The boundary between the Central Volcanic Complex and the Dundas Group within the EL area is gradational, facing and dipping to the west, with the Dundas Group apparently conformably overlying the CVC.

Major structures on the EL include the NE-trending Henty Fault and the N-S trending Mt Charter Fault (Figure 5). However, the magnetics and gravity highlight the presence of several major, apparently deep-seated, unmapped or poorly-mapped structures trending broadly E-W.

Three zinc-dominated and gold/silver-poor sulphide occurrences are known on the EL. These comprise:

1) Disseminated sphalerite-pyrite in altered Que-Hellyer Volcanics adjacent to the Mt Charter Fault at High Point.

2) Sphalerite with lesser pyrite-galena-chalcopyrite in net-veins on the contact between quartz-feldspar porphyry and black shale at Sock Creek.

3) Weak disseminated sphalerite in black shale at Sock Creek South (best intersection of 1m @ 2.5% Zn).

High Point is by far the most significant occurrence, although the tenor of Zn values intersected to date is not as high as at Sock Creek. Mineralisation occurs at High Point at several stratigraphic levels within the Que-Hellyer Volcanics. At the top of the Hangingwall Volcanics (Hellyer Basalt equivalents), there is an extensive stratiform zone of disseminated sphalerite-pyrite up to 200m thick and averaging 0.2-0.5% Zn. The recent hole BHD6 at High Point has shown there is also disseminated sphalerite mineralisation in the underlying altered "footwall volcanics". The mineralisation in BHD6 indicates the potential for massive

sulphide development in the Mixed Sequence in this area (Purvis, 1995).

At Sock Creek the mineralisation attains grades up to 10% Zn over 1.7m, with a general tenor around 2-5% Zn over 5-10m. There is untested potential at this prospect for an open-cuttable body of mineralisation in the order of 100-200,000t @ 5-10% Zn (Purvis, 1994). An ML was taken out by JG Purvis in 1996 to investigate the potential of this resource, however, drilling appears to have been unsuccessful in increasing the resource base. Subsequently, the ML has been withdrawn and the area again comes under the Bulgobac Hill EL.

No other sulphide occurrences of note are known anywhere on the EL.

4.2 Bulgobac River EL 19/94

Two major groups of rocks occur within EL 19/94. One group consists entirely of Tertiary basalt flows which are considered to have low prospectivity to host base metal mineralisation. The second group consists of Cambrian rocks belonging to the Mt Read Volcanics. This group can be divided into distinct packages occurring on either side of the major structure within the EL, the NNW-SSE trending Mt Charter Fault (Figure 7).

Figure 6 shows the rock types occurring within these two packages and their stratigraphic relationship with one another. The Que and Hellyer ore bodies occur within the Mixed Sequence, which is part of the Que Hellyer Volcanics and is found on the eastern side of the Mt Charter Fault. The fault itself is a highly significant structure, characterised by a zone of shearing, fracture, vein and pug development up to 10m wide in places. The difference in thickness and type of Cambrian units either side of the fault may indicate that it was active as a growth fault during Cambrian times.

The dips on either side of the fault are low angle (5-45°) and are mostly towards the north west. Open folds and considerable faulting disrupt the stratigraphy on the eastern side of the fault. The thickness of the Southwell Subgroup and Que River Shale, coupled with the low angle dips on the eastern side of the fault prevent the Que Hellyer Volcanics from outcropping within the EL. They are observed at surface beyond the eastern boundary.

Volcanic units do outcrop on the western side of the Mt Charter Fault. Although these are believed to be time equivalents of the Que-Hellyer volcanics, they are not thought to be geochemical correlates (A Crawford, pers.comm. to Purvis JG, 1995).

No significant alteration or mineralisation has been identified within the EL boundaries (Lorrigan,1995).

5. PREVIOUS EXPLORATION

5.1 Bulgobac Hill EL 37/89

Work conducted within EL 37/89 prior to Pasminco's involvement (1990) was carried out between 1963 and 1989 (Purvis, 1994; Purvis 1995a; McGunnigle, 1996; Basford & Murphy, 1997). During this period the current tenement area was part of Comstaff's EL 5/63. Exploration activities (EM and stream sediment surveys) undertaken by Comstaff and JV partners Pruessag (post-1977) and BHP (post-1985) resulted in the discovery and subsequent drilling of three zinc-dominated, volcanic-hosted mineralised prospects:

- Sock Creek (14 drillholes)
- Sock Creek South (4 drillholes)
- High Point (4 drillholes)

In addition, BHP drilled 9 shallow diamond drillholes at Tullabardine Gorge without encountering mineralisation.

Pasminco commenced exploration in the area in 1990. Work undertaken by Pasminco within Bulgobac Hill EL 37/89 between 1990 and 1997 is detailed in Table 1 (Purvis, 1994; Purvis 1995a; McGunnigle, 1996; Purvis, 1996; Basford & Murphy, 1997).

Table 1: - Exploration Undertaken By Pasminco within EL 37/89 - 1990 to 1998

Reporting Period	Work Completed
1990-93	- diamond drilling of mineralised zone in Que-Hellyer Volcanics at High Point (3 holes); drilling of deep diamond hole at Sock Creek; detailed aeromagnetic and photogrammetry across whole of EL; extended regional-scale gravity surveys over the majority of the EL area.
1993-94	- drilling of deep hole (BHD5-771.1m) at High Point; DHEM surveys in BHD5 (High Point) & BHD4 (Sock Creek); detailed ground mag survey at High Point; lithogeochem/petrological survey at High Point, based on hole BHD5; re-logging & further sampling of BHP hole (HP4/4A) at High Point.
1994-95	- drilling to basement at High Point (BHD6-1060.9m); DHEM survey of BHD6; completion of analysis of stratigraphy & volcanic facies in western part of Que-Hellyer Basin, using lithogeochem & petrological data from 19 drillholes; supporting of Honours Thesis (Sam Watkins-Monash University) on the palaeovolcanic history & stratigraphic correlations of Que-Hellyer Volcanics at High Point.
1995-96	- completion of Honours Project; ML application (depth limited to 100m) over Sock Creek prospect by J.G. Purvis resulting in drilling of two holes (SC1 & SC2) with minor Pb -Zn intersections.
1996-97	- geological & geochemical data review, minor grid cutting on northern section of licence.

Table 1: - Exploration Undertaken By Pasminco within EL 37/89 - 1990 to 1998

Reporting Period	Work Completed
1997/98	- work was focused on the Tullabardine prospect area, incl. griding, IP survey, MMI & infill soil sampling, 1:2500 scale mapping & associated rock chip sampling. A number of targets were defined from this work which were to be tested during 1998/99.

5.2 Bulgobac River EL 19/94

Previous work undertaken by other companies on EL 19/94 has included geological mapping, VFL-EM, IP, CSAMT and gravity surveys conducted by CSR and DHEM, UTEM and magnetic surveys conducted by Aberfoyle. Recent work by a Placer-Aberfoyle Joint Venture included the completion of five diamond drill holes, all of which intersected the Que-Hellyer Volcanics at depth (Richardson, 1994). None of these holes contained mineralisation or significant alteration.

Pasminco began exploration within EL 19/94 in 1995. Table 2 details work undertaken by Pasminco between 1995 and 1997 (Lorrigan, 1995; Dibben, 1996; Murphy, 1997)

Table 2:. - Exploration Undertaken By Pasminco within EL 19/94 - 1995 to 1998

Reporting Period	Work Completed
1994-95	-lithogeochemical study (Dr Tony Crawford) to define depth at which the Mixed Sequence occurs in drill holes on eastern side of Mt Charter Fault (>900m)
1995-96	-regional aeromag interpretation to try & locate large alteration zones associated with Rosebery-style mineralisation
1996-97	-refurbishment, mapping, rock chip & soil sampling of Bulgobac River grid; major data compilation as part of Western Tasmania Prospectivity Review; results from both the Bulgobac sampling and data review identified both soil and stream sediment Zn-Pb anomalies within the NW part of the grid (peripheral to and within Tertiary Basalt areas). This area was targeted for further investigation during the current reporting period.
1997-98	- Minor C-horizon soil, stream sediment & rock chip sampling.

6. WORK COMPLETED 1998-99 REPORTING PERIOD

Work undertaken within Bulgobac Hill EL 37/89 in the 1998-99 reporting period has been of a low key nature and focused mostly on the Tullabardine prospect. Activities have included:

- Interpretation of previous infill partial leach soil sampling
- Minor "C" horizon soil sampling
- Geological mapping and rock chip sampling

Work undertaken within Bulgobac River EL 19/94 during the reporting period has also been limited with activities restricted to the High Point prospect. Work here has included:

- Grid cutting
- Partial leach soil sampling

6.1 Bulgobac Hill EL 37/89

6.1.1 Tullabardine Prospect

Tullabardine prospect area is situated approximately two kilometres north east of Tullabardine Dam and three kilometres east of Mt Block. The area covers a relatively inaccessible portion of the Henty Fault zone along the eastern side of the Mt Charter Syncline. The only viable access into the area is by boat from the Tullabardine boat ramp.

During the 1997-98 reporting period, a program of infill soil sampling was completed on the Tullabardine grid (Parfrey, 1998). Eight grid lines were cut at 50m intervals to the north and south of lines 6500N and 7250N. Analytical results from this sampling were outstanding during the previous reporting period and have since been received. The results of this sampling are presented below.

6.1.2 Soil Sampling

Infill soil sampling was completed to constrain several partial leach anomalies highlighted on lines 6500N and 7250N by the 1997 soil survey. One hundred thirty three (133) samples were collected as part of this work. Samples were submitted to Amdel for analysis using proprietary partial leach method IC8/37 and were assayed for Ag, As, Au, Ba, Bi, Cd, Co, Cu, Fe, Mn, Mo, Ni, Pb, Pd, Pt, Sb, Tl & Zn by ICP-MS. Sample locations are shown in Figure 8 and analytical results are presented in Appendix 1.

As a means of assessing the partial leach anomaly identified on grid line 6500N a small number of C horizon soil samples were also collected between 389700E and 390150E. It was thought that conventional sampling may indicate whether part, or all, of the partial leach response observed in this area was due to shallow mineralisation. As the soil profile at this locality is thin (≤1m) and residual in origin, any mineralisation close to surface is likely to produce a geochemical signature in the soil profile. Conventional soil geochemistry may therefore provide a means of distinguishing between a near surface response and a response related to more deeply buried mineralisation. The conventional soil sampling should also assist in establishing a total geochemical response over the area, which could then be directly compared to the Partial Leach data.

Thirty three (33) "C" horizon soil samples were collected by hand auger at a depth of 0.2-0.6m (base of the soil profile) and analysed by Analabs using a HF based multi acid digest. Samples were assayed for Pb, Ag, As, Cd, Sn, Co, Sb, Bi, Cu, Zn, Ni, Fe, Mn, Ca, K & Mg by ICP. Au was analysed by Fire Assay and Ba by XRF. Sample locations are shown on Figure 9 and results are presented in Appendix 2.

6.1.3 Geological Mapping

Two days of reconnaissance geological mapping were completed on the Tullabardine grid during the reporting period, to ground check partial leach soil anomalies and constrain the geology in these areas.

Outcropping geology in the prospect area is dominated by steeply east-dipping, grey-green siltstones and shales, which strike NE/SW through the length of the grid. They consist of finely laminated black shale and weakly laminated micaceous siltstone with thin quartz-lithic sandstone horizons. On the eastern edge of the grid the siltstone-shale package is intercalated with variably thick (2m-20m), coarse grained, quartz-feldspar, crystal-, lithic-rich volcaniclastic sandstone and ashy siltstone horizons. The quartz crystals within these horizons are glassy, 2-10mm in diameter and commonly fractured. Clasts of silicified volcanic or chert and numerous rip up clasts of grey shale (some >0.3m in length) are also common within these units. Volcaniclastic horizons, similar in composition and appearance to the quartz crystal rich units, are present within the Farrell Slates and Murchison Volcanics at the Mackintosh Dam Spillway and on the Murchison Dam road. Based on similarities in composition and depositional environment this unit is interpreted to be a correlate of the Farrell Slates which outcrop on the lake shore at the Tullabardine boat ramp.

West of approximately 389850mE the siltstone-shale-volcaniclastic package passes into a massive thickly bedded micaceous

sandstone/greywacke sequence. The contact between these units is obscured and may be either gradational or a fault. This greywacke sequence is distinguished from the siltstone-shale package to the east, by a dominance of sandstone over siltstone beds and a significant increase in detrital mica content (predominantly muscovite flakes to 5mm). It is likely that this greywacke unit mapped on the Tullabardine grid is a correlate of the Animal Creek Greywacke, which has been mapped to the north west of the grid in the Mt Charter syncline. The composition of both units is nearly identical.

A problem arises however, with the apparent conformable juxtaposition of the Farrell Slates against Animal Creek Greywacke in this area. The Farrell Slates are interpreted to lie significantly higher in the stratigraphy than the Animal Creek Greywacke, which has been mapped as unconformably overlying the CVC at Mt Charter (Corbett and McNeill, 1986). In the Sterling Valley, the Farrell Slates are interpreted to conformably overlie the quartz-phyric Murchison Volcanics (possible correlates of the Tyndall Group).

The relationship that is observed between these two units on the Tullabardine grid is therefore highly problematic. These units have been interpreted to be in faulted contact on the 1:25,000 MRT maps. The fault was not observed in outcrop and the only evidence suggesting its presence is a subtle increase in cleavage intensity.

6.1.4 Rock Chip Sampling

Eight (8) rockchip samples were collected during reconnaissance geological mapping of the infill lines. The samples were submitted to Analabs for multi-element analysis. Analytical results are presented in Appendix 3, and sample locations are shown in Figure 10. All samples were generally low in base metals and gold.

6.2 Bulgobac River EL 19/94

6.2.1 High Point Prospect

Results of the High Point Partial leach (MMI) soil sampling survey completed in 1998 (Parfrey, 1998), and designed to test the area over the Mt Charter Fault from High Point to Que Road, have been received. A total of 246 samples (including duplicates and standards) were analysed at Amdel using proprietary partial leach method IC8/40 and were assayed for Ag, As, Au, Ba, Bi, Cd, Co, Cu, Mo, Ni, Pb, Pd, Pt, Sb, Tl & Zn by ICP-MS. Sample locations are shown in Figure 11 and analytical results are presented in Appendix 4. Samples were nominally taken from the 'B' horizon on 25m spacings and then composited on 50m spacings. Sample numbers were not randomised. After sample collection the grid

was surveyed by DGPS with about 60 points located. Individual sample locations were then calculated by extrapolation between known points.

All samples were analysed as one batch; standard results are good for Ba, Cd, Co, Cu, Mo, Ni, Pb, Tl; consistently high (20-21 ppm vs. expected 17-19 ppm) for Zn and low for Ag and As. The one duplicate shows poor repeatability for all elements, with the exception of Zn, which report above detection limit values. The poor repeatability is most likely due to the compositing of samples and the lack of homogenisation during sample preparation (for this reason compositing of samples has been abandoned in more recent surveys).

Histograms for all elements indicate non-normal strongly negatively skewed populations. To compensate, all interpretation has been done on log transformed data, which yields close to normal distributions. Principal component analysis was completed for all elements, with the exception of Au, Tl, Pt and Pd for which a large proportion (>50%) of the data have below detection limit results. Three factors were defined by the analysis (Figures 12-14):

- Factor 1; BaCoNi.
  This factor appears to a lithological response due to Tertiary Basalt cover in the northern part of the grid. Previous surveys (e.g., Beatrice [Denwer and McNeill, 2000]) have shown a Co-Ni association, but, the addition of Ba to the factor (normally associated with Factor 2) in the current survey is not understood.

- Factor 2; AsBiMoPbSb.
  This factor has been considered to be a proximal indicator of mineralisation in some previous surveys, however, in the current survey the main area of anomalous Factor 2 coincides with the area where the Que River Shale is closest to surface and may reflect lithological variations.

- Factor 3; AgCuCdZn.
  This factor has previously been considered to be a distal indicator of mineralisation. There appear to be no coherent anomalies in this factor apart from a single line anomaly on 6400N. Interestingly the disseminated low-grade Zn mineralisation intersected by DDHs HP1, 2 and 4 does not appear to have produced a partial leach anomaly in this area (too deeply buried?).

In summary the three factors derived from principal component analysis have not defined any significant (multi-line, coherent) anomalies that are not interpretable as lithological features.

If selected individual element plots are considered (with data grided using Xqimage software) then the following can be seen;

- Au (Figure 15) values are uniformly low in the area underlain by Tertiary Basalt, generally elevated where factor 2 is high, and show spot highs coincident with the Factor 3 anomaly on line 6400N.
- Cu (Figure 16) values are generally subdued, with elevated values over the Tertiary Basalt.
- Pb (Figure 17); apart from the area of anomalous Pb in the southern part of the grid, spot highs occur on line 6600N, 6400N and 6200N. There is no obvious correlation between the partial digest results and those of 'C' horizon total digest samples collected previously (Parfrey, 1998; Murphy, 1997b), suggesting that the partial leach results represent results from more deeply buried sources.
- Zn (Figure 18); no multi-line coherent anomalies are obvious, with spot highs on several lines, with the most intense on line 7000N. Zn is only weakly elevated at the eastern end of line 6400N. Partial leach (PL) Zn results generally do not correlate with the total digest 'C' horizon results, except on line 5400N where a Zn PL high corresponds to an elevated total digest result (117 ppm).
- Tl (Figure 19); is strongly, but, variably elevated over the Tertiary Basalt and is also elevated on line 6400N, coincident with Pb and Au.

In conclusion, the results of the partial leach soil survey covering the Mt Charter Fault from High Point to the north are not encouraging. Although there is a multi-element anomaly on line 6400N, this target does not warrant further follow-up using Pasminco's current criteria (i.e., multi-element [including Zn] coherent anomalies on multiple lines). Most other features in the data can be interpreted correlate with bed-rock geology. However, in hindsight the design of the survey, using composite samples, non-random sample numbers and relatively short sampling lines (some only 250m long), may not have been optimal.

7. CONCLUSIONS & RECOMMENDATIONS

Mapping and geochemistry have indicated that a weathered orange to brown manganiferous siltstone and minor quartz sandstone horizon is weakly anomalous in base metals in the Tullabardine prospect area. The anomaly is locally defined in both conventional and partial leach soil geochemistry around grid line 6500N. No significant alteration or visible mineralisation has been observed in the vicinity of this anomaly and the setting is not immediately prospective for Rosebery or Hellyer style VMS mineralisation. Exploration in this area has not been extensive, however, there appear to be insufficient key indicators of significant mineralisation to justify any further work on the Tullabardine anomaly at this stage.

The partial leach soil survey over the Mt Charter Fault from High Point (on EL 37/89) to Que Road (on EL 19/94) was not successful in locating any targets worthy of follow-up. However, there remain considerable areas on both Bulgobac Hill (EL 37/89) and Bulgobac River (EL 19/94) where the target Que-Hellyer ore position may occur at explorable/economic depths (<500m).

It is therefore recommended that the partial leach survey described in this report be extended, with modifications to the survey design (as outlined in section 6.2), to cover the areas of potentially shallowly buried (< 500m) Que-Hellyer ore position on EL's 37/89 and 19/94 and to link this survey with that completed on the adjacent EL 10/98 Mt. Charter (McNeill, 1999) to provide complete coverage of the prospective area.

8. EXPENDITURE

Bulgobac River EL 19/94

Total expenditure for all work undertaken by Pasminco Exploration within Bulgobac River EL 19/94, for the 12 month period ending 31/07/1999 was $28,158. A detailed expenditure statement is given below.

Personnel	13,346
Travel & Accommodation	992
Geochemical Consultants & Assays	5,399
Geophysical Surveys & Consultants	10
Other Consultants	64
Drilling	63
Stores & Supplies	648
Vehicles Plant & Equipment	372
Land	1,838
Computing	425
Office	2,441
Administration Fee	2,560
Total	**28,158**

Bulgobac Hill EL 37/89

Total expenditure for all work undertaken by Pasminco Exploration within Bulgobac Hill EL 37/89, for the 12 month period ending 31/07/1999 was $74,649. A detailed expenditure statement is given below.

Personnel	25,100
Travel & Accommodation	2,016
Geochemical Consultants & Assays	15,954
Geophysical Surveys & Consultants	4,738
Other Contractors	10,042
Drilling Contractors	333
Stores & Supplies	2,062
Vehicles Plant & Equipment	1,345
Land	2,072
Computing	293
Office	3,908
Administration Fee	6,786
Total	**74,649**

9. KEYWORDS & LOCALITY

Keywords

BULGOBAC HILL, BULGOBAC RIVER, QUE RIVER, HELLYER, TULLABARDINE, GEOCHEMISTRY, MAPPING, MMI, IP, ZINC, MAFIC, VOLCANICS

Locality

BURNIE SK55-3

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APPENDIX 1

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Tullabardine Prospect - MMI Sampling
Analytical Results

Appendix 1
Tullabardine MMI Sampling
Results

Sample No	Sample Type	UTM East	UTM North	Prospect	Tenement Number	Ag ppm	As ppm	Au ppm	Ba ppm	Cd ppm	Co ppm	Cu ppm	Fe ppm	Mn ppm	Mo ppm	Ni ppm	Pb ppm	Pd ppm	Pt ppm	Sb ppm	Tl ppm	Zn ppm	SDS
273777	MMI	389702	5386400	TULLABARDINE	37/89	-0.00005	0.043	-0.00001	0.232	0.001	0.047	0.371	0.036	0.0035	-0.001	0.082	0.429	-0.00001	-0.00001	-0.001	-0.001	0.408	1523
273778	MMI	389727	5386399	TULLABARDINE	37/89	-0.00005	0.912	-0.00001	0.896	0.011	0.062	2.8	1.05	0.0008	0.027	0.225	5.8	-0.00001	-0.00001	0.013	-0.001	1.4	1523
273779	MMI	389751	5386399	TULLABARDINE	37/89	-0.00005	1.3	-0.00001	1.5	0.004	0.06	1.1	2	0.0065	0.021	0.168	9.7	0.00004	-0.00001	0.02	-0.001	0.743	1523
273781	MMI	389777	5386399	TULLABARDINE	37/89	-0.00005	0.53	-0.00001	0.784	0.009	0.064	0.387	0.5	0.0017	0.013	0.159	3.5	-0.00001	-0.00001	0.003	-0.001	2.5	1523
273782	MMI	389803	5386399	TULLABARDINE	37/89	-0.00005	1.3	-0.00001	6.5	0.032	1.6	2.3	2.05	0.14	0.021	1.5	5.1	-0.00001	-0.00001	0.018	-0.001	11	1523
273783	MMI	389829	5386400	TULLABARDINE	37/89	-0.00005	0.239	-0.00001	1.3	0.013	0.091	0.303	0.55	0.0065	0.012	0.269	1.1	-0.00001	-0.00001	0.003	-0.001	3.8	1523
273784	MMI	389852	5386400	TULLABARDINE	37/89	-0.00005	0.078	-0.00001	0.581	0.005	0.023	0.127	0.125	0.0009	0.014	0.111	0.485	-0.00001	-0.00001	0.002	-0.001	1	1523
273785	MMI	389877	5386399	TULLABARDINE	37/89	-0.00005	0.249	-0.00001	4.5	0.014	0.199	1.1	0.65	0.0075	0.017	0.722	1.8	-0.00001	-0.00001	0.005	-0.001	2.2	1523
273786	MMI	389902	5386399	TULLABARDINE	37/89	0.0011	0.597	-0.00001	3.8	0.013	0.906	2	0.85	0.0195	0.032	0.646	3.2	0.00097	-0.00001	0.036	-0.001	4.2	1523
273787	MMI	389928	5386400	TULLABARDINE	37/89	0.0018	1	-0.00001	3.3	0.03	1.5	2.3	1.05	0.135	0.051	0.853	2.9	0.00098	-0.00001	0.06	-0.001	4.9	1523
273788	MMI	389952	5386400	TULLABARDINE	37/89	0.0008	0.654	-0.00001	2	0.022	0.203	1.6	0.55	0.013	0.048	0.527	1.8	-0.00001	-0.00001	0.023	-0.001	2.2	1523
273789	MMI	389977	5386399	TULLABARDINE	37/89	-0.00005	0.125	-0.00001	1	0.01	0.126	0.726	0.39	0.009	0.011	0.19	2.1	-0.00001	-0.00001	0.003	-0.001	2.3	1523
273790	MMI	390002	5386399	TULLABARDINE	37/89	-0.00005	0.025	-0.00001	0.624	0.011	0.059	0.148	0.19	0.0041	0.003	0.154	1	-0.00001	-0.00001	-0.001	-0.001	1.2	1523
273791	MMI	390025	5386400	TULLABARDINE	37/89	-0.00005	-0.001	-0.00001	1	0.009	0.019	0.325	0.0285	0.005	-0.001	0.142	0.203	-0.00001	-0.00001	-0.001	-0.001	2.4	1523
273792	MMI	390052	5386399	TULLABARDINE	37/89	-0.00005	0.023	-0.00001	2.3	0.009	0.013	-0.001	0.12	0.0008	0.004	0.319	0.714	-0.00001	-0.00001	-0.001	-0.001	0.851	1523
273793	MMI	390030	5386448	TULLABARDINE	37/89	-0.00005	0.667	-0.00001	2.1	0.084	2.9	2.9	1.05	0.27	0.008	2.5	3.2	-0.00001	-0.00001	0.012	-0.001	11.5	1523
273794	MMI	390001	5386448	TULLABARDINE	37/89	0.002	1.6	-0.00001	2.1	0.046	1	3	1.85	0.035	0.116	0.962	3.9	0.002	-0.00001	0.141	-0.001	12.5	1523
273795	MMI	389977	5386448	TULLABARDINE	37/89	0.0037	1.4	-0.00001	1.1	0.062	5.3	6.7	1.65	0.6	0.065	1.3	4.4	0.00146	-0.00001	0.085	-0.001	12	1523
273796	MMI	389955	5386448	TULLABARDINE	37/89	0.0051	0.935	-0.00001	2.1	0.01	1.6	1.5	1.55	0.175	0.04	0.24	2	0.00127	-0.00001	0.076	-0.001	2	1523
273797	MMI	389932	5386448	TULLABARDINE	37/89	0.0043	1.3	-0.00001	2.2	0.02	0.656	1.9	1.45	0.11	0.054	0.498	2.7	0.00186	-0.00001	0.096	-0.001	3.2	1523
273798	MMI	389903	5386448	TULLABARDINE	37/89	0.0049	2.1	-0.00001	2.4	0.013	4.1	5.5	2.1	0.11	0.106	0.587	6.7	0.00313	-0.00001	0.238	-0.001	4	1523
273799	MMI	389877	5386448	TULLABARDINE	37/89	0.00025	0.464	-0.00001	1.3	0.011	0.043	0.799	1.1	0.0029	0.026	0.463	1.1	-0.00001	-0.00001	0.019	-0.001	1.5	1523
273800	MMI	389852	5386448	TULLABARDINE	37/89	-0.00005	0.31	0.00018	1.2	0.011	0.055	0.642	0.65	0.0011	0.012	0.408	0.495	-0.00001	-0.00001	0.007	-0.001	1.8	1523
273801	MMI	389827	5386448	TULLABARDINE	37/89	0.0002	0.28	-0.00001	1.2	0.009	0.061	0.599	0.5	0.0018	0.03	0.163	0.994	-0.00001	-0.00001	0.012	-0.001	1.9	1523
273802	MMI	389801	5386448	TULLABARDINE	37/89	0.00035	1.2	-0.00001	2.9	0.018	1.2	1.2	2	0.24	0.022	1.1	1.9	-0.00001	-0.00001	0.016	-0.001	4.7	1523
273803	MMI	389775	5386448	TULLABARDINE	37/89	-0.00005	0.72	-0.00001	3.5	0.011	0.545	2.9	1.75	0.012	0.004	0.769	5.7	0.00033	-0.00001	0.008	-0.001	1.8	1523
273804	MMI	389750	5386448	TULLABARDINE	37/89	-0.00005	0.991	-0.00001	1.8	0.005	0.101	0.616	1.8	0.0022	0.008	0.149	2.7	-0.00001	-0.00001	0.01	-0.001	0.596	1523
273806	MMI	389725	5386448	TULLABARDINE	37/89	-0.00005	0.521	-0.00001	0.592	0.012	0.037	0.401	0.32	0.0047	0.006	0.1	1.6	-0.00001	0.00006	0.008	-0.001	1.5	1523
273807	MMI	389703	5386447	TULLABARDINE	37/89	0.001	0.85	0.00008	0.666	0.01	0.022	0.346	0.43	0.0035	0.013	0.106	2.4	-0.00001	-0.00001	0.009	-0.001	1.4	1523
273808	MMI	389698	5386495	TULLABARDINE	37/89	0.0029	0.15	0.00031	1.8	0.006	0.356	1.2	1.3	0.0085	0.012	0.771	1.1	0.00504	0.00025	0.005	-0.001	2.9	1523
273809	MMI	389725	5386494	TULLABARDINE	37/89	0.0039	1.6	0.00031	3.3	0.006	1.1	1.9	1.9	0.0385	0.03	0.205	14	0.00218	0.00005	0.029	-0.001	0.66	1523
273810	MMI	389752	5386494	TULLABARDINE	37/89	0.0037	2.4	0.00038	2.4	0.003	0.085	1.2	2.25	0.009	0.018	0.154	4.1	0.00185	0.00019	0.038	0.002	0.482	1523
273811	MMI	389776	5386494	TULLABARDINE	37/89	0.0082	1	0.00028	2.4	0.023	1.7	3.3	1.55	0.21	0.023	0.67	3.5	0.00397	0.00018	0.017	0.004	2.7	1523
273812	MMI	389800	5386495	TULLABARDINE	37/89	0.012	0.864	0.00024	6.8	0.03	6	4.7	1.8	0.4	0.019	1.8	4.1	0.00108	-0.00001	0.033	0.003	4.8	1523
273813	MMI	389827	5386494	TULLABARDINE	37/89	0.012	1.2	0.00017	4	0.028	2.1	2.3	1.8	0.046	0.06	0.802	3.7	0.00054	-0.00001	0.084	0.001	6.3	1523
273814	MMI	389849	5386495	TULLABARDINE	37/89	0.01	1.8	0.00025	1.3	0.015	0.238	2.2	-0.0001	0.01	0.121	0.241	1.9	0.00145	0.00009	0.353	0.001	6	1523
273815	MMI	389874	5386495	TULLABARDINE	37/89	0.0057	2.2	0.00012	2	0.017	0.063	2	2.35	0.008	0.044	0.747	2	0.00054	-0.00001	0.124	-0.001	1.9	1523
273816	MMI	389898	5386495	TULLABARDINE	37/89	0.0041	1.5	0.00041	1.1	0.007	0.027	2.4	2.25	0.012	0.056	0.142	2.8	0.00127	0.00005	0.091	-0.001	0.944	1523
273817	MMI	389926	5386495	TULLABARDINE	37/89	0.0044	1.8	0.00103	2.7	0.022	0.971	11	1.7	0.051	0.047	1.6	9.1	0.00315	0.00007	0.13	0.004	9.1	1523
273818	MMI	389952	5386494	TULLABARDINE	37/89	0.0047	1.3	0.00032	2.4	0.012	0.273	4.1	2.1	0.051	0.041	0.158	3.2	0.0015	-0.00001	0.092	0.002	1.6	1523
273819	MMI	389976	5386495	TULLABARDINE	37/89	0.037	0.674	0.00034	1.4	0.108	6.3	24.5	1	0.5	0.038	1.4	5.9	0.00128	-0.00001	0.104	0.011	16.5	1523
273821	MMI	390000	5386496	TULLABARDINE	37/89	0.013	1.7	0.00034	5.6	0.088	14.5	7.3	1.25	0.8	0.052	2.3	16.5	0.0012	-0.00001	0.102	0.014	48.5	1523
273822	MMI	390026	5386496	TULLABARDINE	37/89	0.011	1.1	0.00042	2.1	0.017	4.7	2.6	1.75	0.32	0.035	0.338	6.2	0.00191	0.00003	0.073	0.006	4.3	1523
273823	MMI	390052	5386495	TULLABARDINE	37/89	0.006	0.542	0.00015	4.7	0.033	0.273	2	2.4	0.021	0.011	0.41	6.7	0.0009	0.00007	0.016	0.004	4.7	1523
273824	MMI	390075	5386495	TULLABARDINE	37/89	0.0027	0.854	0.00028	2.5	0.014	0.181	2.5	2	0.0125	0.026	0.458	2	0.00058	-0.00001	0.029	0.002	3.5	1523
273825	MMI	390100	5386495	TULLABARDINE	37/89	0.0013	0.099	-0.00001	2	0.005	0.115	0.381	0.34	0.008	-0.001	0.167	1.3	0.00007	0.00006	0.006	-0.001	5.4	1523
273826	MMI	390125	5386495	TULLABARDINE	37/89	0.0025	0.261	0.00026	1.4	0.004	0.022	1.5	1.65	0.0008	0.016	0.143	1	0.00132	0.00012	0.009	-0.001	0.368	1523
273827	MMI	390150	5386496	TULLABARDINE	37/89	0.0034	0.174	0.00007	2.4	0.006	0.023	1.3	1.15	0.0005	0.012	0.404	0.585	-0.00001	-0.00001	0.005	-0.001	0.537	1523
273828	MMI	390151	5386549	TULLABARDINE	37/89	0.0022	0.056	-0.00001	1.7	0.009	0.039	0.351	0.31	0.0018	-0.001	0.496	0.733	-0.00001	-0.00001	-0.001	-0.001	1.8	1523

Appendix 1
Tullabardine MMI Sampling
Results

Sample No	Sample Type	UTM East	UTM North	Prospect	Tenement Number	Ag ppm	As ppm	Au ppm	Ba ppm	Cd ppm	Co ppm	Cu ppm	Fe ppm	Mn ppm	Mo ppm	Ni ppm	Pb ppm	Pd ppm	Pt ppm	Sb ppm	Tl ppm	Zn ppm	SDS
273829	MMI	390127	5386549	TULLABARDINE	37/89	0.0013	0.049	-0.00001	1.8	0.007	0.025	0.029	0.21	0.0042	-0.001	0.161	0.483	-0.00001	-0.00001	-0.001	-0.001	2.2	1523
273830	MMI	390102	5386548	TULLABARDINE	37/89	0.0014	0.525	0.00032	4	0.018	3.7	3.4	1.7	0.27	0.006	1.2	2.3	0.00011	0.00004	0.013	0.001	3.1	1523
273831	MMI	390080	5386548	TULLABARDINE	37/89	0.0014	0.937	0.00015	5.6	0.032	2.4	2.8	2.15	0.145	0.029	4	3.7	0.00022	-0.00001	0.037	0.001	17	1523
273832	MMI	390052	5386549	TULLABARDINE	37/89	0.0005	0.87	-0.00001	5.6	0.151	2.1	1.7	1.65	0.41	0.031	2.1	5.5	-0.00001	0.00002	0.021	0.003	17	1523
273833	MMI	390027	5386548	TULLABARDINE	37/89	0.0054	0.137	-0.00001	4.1	0.021	0.075	0.553	0.47	0.008	0.028	0.401	0.798	0.00048	0.00004	0.01	-0.001	1.3	1523
273834	MMI	390003	5386548	TULLABARDINE	37/89	0.02	0.656	0.00034	3.6	0.089	3.2	4.7	2.5	0.23	0.064	2.2	6.2	0.00206	0.00003	0.141	0.004	12.5	1523
273835	MMI	389975	5386547	TULLABARDINE	37/89	0.0087	0.706	-0.00001	2.5	0.029	21	8.9	1.25	0.6	0.026	0.982	13.5	0.00091	-0.00001	0.076	0.004	11	1523
273836	MMI	389952	5386548	TULLABARDINE	37/89	0.0035	0.077	-0.00001	0.475	0.009	0.054	0.29	0.19	0.022	0.022	0.125	0.993	0.00014	-0.00001	0.005	-0.001	0.86	1523
273837	MMI	389927	5386546	TULLABARDINE	37/89	0.0051	0.37	-0.00001	1.4	0.013	0.026	1	1.1	0.021	0.035	0.245	1.4	0.00024	-0.00001	0.023	-0.001	1	1523
273838	MMI	389902	5386547	TULLABARDINE	37/89	0.0041	0.84	0.00059	3.3	0.016	0.073	1.2	2.45	0.0235	0.029	0.734	3.1	0.00309	0.00012	0.07	-0.001	1.1	1523
273839	MMI	389877	5386547	TULLABARDINE	37/89	0.0056	1	0.00017	2.7	0.019	0.05	1.7	2.55	0.011	0.061	0.324	3	0.00074	-0.00001	0.171	-0.001	2.3	1523
273840	MMI	389850	5386548	TULLABARDINE	37/89	0.0001	0.034	-0.00001	3.2	0.046	0.115	0.122	0.13	0.0065	-0.001	0.7	1	-0.00001	-0.00001	0.002	-0.001	6.4	1523
273841	MMI	389827	5386548	TULLABARDINE	37/89	-0.00005	0.279	-0.00001	1.1	0.008	0.064	0.645	0.25	0.0028	-0.001	0.711	0.253	-0.00001	-0.00001	0.016	-0.001	0.693	1523
273842	MMI	389801	5386547	TULLABARDINE	37/89	0.002	0.188	-0.00001	1.4	0.004	0.058	1	1.15	0.0018	0.021	0.238	0.378	0.00034	-0.00001	0.013	-0.001	0.445	1523
273843	MMI	389776	5386548	TULLABARDINE	37/89	0.0025	1.5	0.00031	5.3	0.008	2.9	2.8	1.6	0.45	0.023	4.3	7.3	0.00206	0.00005	0.037	-0.001	3.1	1523
273844	MMI	389750	5386548	TULLABARDINE	37/89	-0.00005	1.5	-0.00001	2.3	0.022	0.683	0.635	0.9	0.16	0.005	1.9	2.2	0.00025	-0.00001	0.014	-0.001	1.7	1523
273845	MMI	389728	5386549	TULLABARDINE	37/89	-0.00005	0.136	-0.00001	2.3	0.009	0.053	1	1.7	0.0034	0.012	0.409	0.848	0.00082	0.00003	0.007	-0.001	0.811	1523
273846	MMI	389700	5386547	TULLABARDINE	37/89	0.0012	0.262	-0.00001	6.5	0.015	3	3.2	0.39	0.17	0.01	0.985	2.2	0.00336	0.00007	0.01	0.007	1.1	1523
273847	MMI	389699	5386597	TULLABARDINE	37/89	-0.00005	0.349	-0.00001	3.5	0.01	0.104	0.55	1.75	0.0045	0.02	0.573	1.3	0.00089	-0.00001	0.011	-0.001	2.2	1523
273848	MMI	389727	5386598	TULLABARDINE	37/89	0.001	1.8	-0.00001	3	0.01	0.631	1.2	2.75	0.061	0.053	0.622	1.4	0.00183	0.00008	0.016	-0.001	3.1	1523
273849	MMI	389752	5386598	TULLABARDINE	37/89	0.00045	0.262	-0.00001	9.1	0.026	1.1	3.5	1.1	0.48	0.022	1.2	2.2	0.00154	-0.00001	0.009	-0.001	2.8	1523
273850	MMI	389777	5386598	TULLABARDINE	37/89	0.00005	0.244	-0.00001	1.2	0.01	0.027	0.76	1.95	0.0024	0.023	0.208	1.4	0.00063	-0.00001	0.009	-0.001	0.476	1523
273851	MMI	389800	5386599	TULLABARDINE	37/89	-0.00005	0.241	-0.00001	1.4	0.014	0.02	1.3	1.95	0.008	0.02	0.346	0.787	0.00066	-0.00001	0.007	-0.001	1.2	1523
273852	MMI	389826	5386600	TULLABARDINE	37/89	0.0077	0.419	-0.00001	7.8	0.014	0.195	1.9	0.43	0.063	0.01	2.4	1.1	0.0009	0.00003	0.011	-0.001	2.4	1523
273853	MMI	389851	5386599	TULLABARDINE	37/89	0.0031	0.591	-0.00001	1.6	0.009	0.026	0.732	2.35	0.0037	0.023	0.273	0.547	0.00075	-0.00001	0.011	-0.001	0.908	1523
273854	MMI	389877	5386599	TULLABARDINE	37/89	-0.00005	1.1	-0.00001	1.4	0.022	0.094	0.425	0.34	0.023	0.001	1.2	0.684	-0.00001	-0.00001	0.019	-0.001	2	1523
273855	MMI	389902	5386599	TULLABARDINE	37/89	-0.00005	1.2	0.00003	4	0.013	0.189	1.7	2.3	0.1	0.016	0.849	2	0.00133	0.00001	0.034	-0.001	1.7	1523
273856	MMI	389926	5386600	TULLABARDINE	37/89	0.0032	0.853	0.00057	2	0.019	1.8	14.5	1.4	0.3	0.038	0.378	8.3	0.00138	-0.00001	0.066	-0.001	0.689	1523
273857	MMI	389952	5386601	TULLABARDINE	37/89	0.0039	1.4	0.00079	2	0.014	4.4	3.5	2.15	0.45	0.104	0.218	4.7	0.00479	0.00018	0.17	-0.001	1.2	1523
273858	MMI	389977	5386599	TULLABARDINE	37/89	-0.00005	0.684	-0.00001	2.6	0.027	0.138	2.9	3.3	0.17	0.038	0.203	1.1	0.00132	0.00006	0.029	-0.001	0.829	1523
273859	MMI	390002	5386600	TULLABARDINE	37/89	-0.00005	0.648	0.00002	3.2	0.018	0.147	2.5	2.5	0.15	0.018	0.46	1.6	0.00061	-0.00001	0.027	-0.001	1.7	1523
273861	MMI	390027	5386598	TULLABARDINE	37/89	0.0008	0.495	0.00001	2.7	0.015	0.073	0.735	2.85	0.015	0.017	0.326	1.4	0.00048	0.00013	0.013	-0.001	1.6	1523
273862	MMI	390052	5386600	TULLABARDINE	37/89	0.00045	0.524	0.00012	3.6	0.011	0.046	1.6	2.3	0.0055	0.019	0.241	2.5	0.00063	0.00007	0.016	-0.001	0.928	1523
273863	MMI	390077	5386598	TULLABARDINE	37/89	-0.00005	0.294	-0.00001	1.1	0.016	0.093	0.265	0.2	0.0022	0.001	0.271	0.935	0.00005	-0.00001	0.008	-0.001	2.2	1523
273864	MMI	390101	5386600	TULLABARDINE	37/89	0.0011	0.487	0.00002	3.8	0.014	0.41	2	2.05	0.027	0.043	0.928	2.3	0.00117	-0.00001	0.019	-0.001	3.7	1523
273865	MMI	390127	5386599	TULLABARDINE	37/89	0.0058	0.25	0.00009	1.7	0.008	0.024	0.468	1.15	0.0008	0.023	0.187	2.2	0.00004	-0.00001	0.005	-0.001	0.83	1523
273866	MMI	390152	5386599	TULLABARDINE	37/89	0.0015	0.019	-0.00001	2.5	0.007	0.015	0.122	0.09	0.008	0.003	0.307	0.556	0.00005	-0.00001	-0.001	-0.001	1.6	1523
273867	MMI	390693	5387118	TULLABARDINE	37/89	-0.00005	0.281	0.00015	9	0.048	0.236	2.1	1.15	0.0075	0.008	1.8	1.8	0.00048	0.00002	0.005	-0.001	1.2	1523
273868	MMI	390671	5387118	TULLABARDINE	37/89	-0.00005	0.267	0.00012	7.8	0.027	0.169	3.3	2.75	0.0145	0.016	1.4	1.7	0.00093	-0.00001	0.007	-0.001	1.2	1523
273869	MMI	390644	5387117	TULLABARDINE	37/89	0.00075	0.277	0.00024	5.3	0.015	0.28	2	2.3	0.012	0.04	1.9	0.79	0.00202	0.00012	0.009	-0.001	1.5	1523
273870	MMI	390619	5387117	TULLABARDINE	37/89	0.0032	0.314	-0.00001	4.9	0.014	0.313	1.7	1.3	0.0405	0.018	1.6	0.992	0.00088	0.00019	0.016	-0.001	5.3	1523
273871	MMI	390594	5387116	TULLABARDINE	37/89	0.0019	0.158	0.00003	1.9	0.017	0.055	0.42	0.49	0.027	0.013	0.733	1.2	0.00052	0.00006	0.008	-0.001	3.8	1523
273872	MMI	390568	5387117	TULLABARDINE	37/89	0.00095	0.065	-0.00001	0.972	0.015	0.101	0.291	0.39	0.0135	0.002	0.754	0.8	-0.00001	-0.00001	0.001	-0.001	3.8	1523
273873	MMI	390543	5387116	TULLABARDINE	37/89	-0.00005	0.554	-0.00001	0.765	0.009	0.025	0.432	1.1	0.0029	0.004	0.307	0.45	0.00013	0.00006	0.008	-0.001	2.2	1523
273875	MMI	390517	5387116	TULLABARDINE	37/89	-0.00005	0.071	-0.00001	0.027	0.015	0.133	0.144	0.21	0.0085	-0.001	0.286	0.582	-0.00001	-0.00001	-0.001	-0.001	2.9	1523
273876	MMI	390490	5387115	TULLABARDINE	37/89	0.01	0.034	0.00007	0.816	0.007	0.057	0.287	0.07	0.0044	0.015	0.192	1.1	0.00008	0.00003	0.001	-0.001	1.9	1523
273877	MMI	390492	5387167	TULLABARDINE	37/89	0.0012	0.35	0.00013	2.6	0.007	0.05	0.375	1.25	0.0028	0.034	0.318	2.6	0.00059	-0.00001	0.011	-0.001	0.998	1523
273878	MMI	390514	5387167	TULLABARDINE	37/89	0.0022	0.099	-0.00001	0.737	0.005	0.059	1	0.071	0.0014	-0.001	0.324	1.3	-0.00001	-0.00001	0.002	-0.001	2.8	1523
273879	MMI	390540	5387166	TULLABARDINE	37/89	0.0016	0.206	0.00004	1.9	0.013	0.051	1.9	1.05	0.0075	0.012	0.739	2.1	0.00026	0.00007	0.005	-0.001	2.1	1523

Appendix 1
Tullabardine MMI Sampling
Results

Sample No	Sample Type	UTM East	UTM North	Prospect	Tenement Number	Ag ppm	As ppm	Au ppm	Ba ppm	Cd ppm	Co ppm	Cu ppm	Fe ppm	Mn ppm	Mo ppm	Ni ppm	Pb ppm	Pd ppm	Pt ppm	Sb ppm	Tl ppm	Zn ppm	SDS
273880	MMI	390567	5387167	TULLABARDINE	37/89	0.0008	0.1	-0.00001	4.1	0.015	0.029	0.567	0.42	0.012	0.003	0.489	4	-0.00001	-0.00001	0.001	-0.001	1.8	1523
273881	MMI	390592	5387166	TULLABARDINE	37/89	0.0029	0.387	0.00023	6	0.028	0.076	1.5	2.25	0.0215	0.016	0.622	6.3	0.00066	-0.00001	0.007	-0.001	3	1523
273882	MMI	390617	5387164	TULLABARDINE	37/89	0.0036	0.425	0.00057	3	0.039	0.41	5.4	2	0.0485	0.026	0.476	5.1	0.00158	0.00019	0.013	0.001	1.4	1523
273883	MMI	390642	5387164	TULLABARDINE	37/89	-0.00005	0.139	-0.00001	1.3	0.017	0.04	0.371	0.34	0.002	0.001	0.34	0.543	0.00003	0.00003	0.003	-0.001	2.8	1523
273884	MMI	390667	5387165	TULLABARDINE	37/89	0.00045	0.335	-0.00001	6.5	0.027	0.091	0.207	0.6	0.0075	0.005	0.382	2.6	0.00115	0.00014	0.009	-0.001	2.1	1523
273885	MMI	390695	5387165	TULLABARDINE	37/89	-0.00005	0.312	0.00001	2.1	0.012	0.037	0.716	0.95	0.0035	0.012	0.521	1.7	0.00033	-0.00001	0.006	-0.001	2.8	1523
273886	MMI	390688	5387219	TULLABARDINE	37/89	0.0041	0.159	0.00006	2.6	0.012	0.038	0.432	2.65	0.0017	0.015	0.309	0.751	0.00128	-0.00001	0.004	-0.001	0.957	1523
273887	MMI	390668	5387218	TULLABARDINE	37/89	0.0017	0.181	0.00021	2.6	0.007	0.035	0.262	2.2	0.0008	0.026	0.397	1.2	0.00121	0.00009	0.007	-0.001	0.493	1523
273888	MMI	390643	5387218	TULLABARDINE	37/89	0.0004	0.127	-0.00001	3.6	0.015	0.042	0.082	0.47	0.007	0.003	0.491	0.473	0.00008	-0.00001	0.008	-0.001	1.7	1523
273889	MMI	390618	5387218	TULLABARDINE	37/89	-0.00005	0.123	0.00004	0.451	0.178	0.822	0.579	0.55	0.079	-0.001	7.3	0.213	0.00016	-0.00001	0.003	-0.001	15	1523
273890	MMI	390593	5387218	TULLABARDINE	37/89	0.0042	0.115	0.00025	0.856	1.3	4.5	7.2	1	0.44	0.004	38.5	8.6	0.00177	0.00004	0.008	-0.001	315.5	1523
273891	MMI	390568	5387218	TULLABARDINE	37/89	-0.00005	0.357	0.00065	6.1	0.043	1.3	8.6	1.35	0.17	0.013	1.3	12	0.0012	0.00009	0.01	-0.001	2.4	1523
273892	MMI	390545	5387218	TULLABARDINE	37/89	0.0028	0.548	0.00048	2.9	0.009	0.123	2.1	1.25	0.0155	0.014	0.396	2.7	0.00152	-0.00001	0.021	-0.001	1.7	1523
273893	MMI	390521	5387217	TULLABARDINE	37/89	-0.00005	0.161	-0.00001	1.3	0.006	0.017	0.023	0.3	0.003	-0.001	0.215	0.594	-0.00001	-0.00001	0.014	-0.001	0.874	1523
273894	MMI	390495	5387218	TULLABARDINE	37/89	-0.00005	0.023	-0.00001	1.1	0.004	0.015	0.056	0.0265	0.0022	-0.001	0.267	0.481	0.00002	-0.00001	0.001	-0.001	2.3	1523
273895	MMI	390488	5387268	TULLABARDINE	37/89	0.0014	1.6	0.00038	3.9	0.008	0.094	1.7	2.65	0.0049	0.08	0.445	3.3	0.00039	0.00008	0.173	-0.001	1.4	1523
273896	MMI	390510	5387269	TULLABARDINE	37/89	0.026	1.2	0.00017	3.4	0.067	4	6.7	1.5	0.55	0.055	2.1	25.5	0.00046	0.00002	0.106	0.007	10.5	1523
273897	MMI	390536	5387269	TULLABARDINE	37/89	0.00085	0.796	0.00026	2	0.021	4.4	2.4	1.15	0.18	0.031	1.2	18.5	0.00142	0.00003	0.066	0.004	7.5	1523
273898	MMI	390562	5387269	TULLABARDINE	37/89	-0.00005	0.418	0.00054	6.2	0.021	0.618	2.3	1.9	0.068	0.012	0.594	4.7	0.00035	-0.00001	0.019	-0.001	1.9	1523
273901	MMI	390588	5387269	TULLABARDINE	37/89	-0.00005	0.565	0.00087	2.7	0.023	0.042	1.3	2	0.0031	0.007	0.292	4.4	0.00035	0.00011	0.019	-0.001	2.9	1523
273902	MMI	390614	5387268	TULLABARDINE	37/89	-0.00005	0.27	0.00009	2.2	0.021	0.029	0.836	0.16	0.0028	-0.001	0.263	2	-0.00001	-0.00001	0.006	-0.001	2.6	1523
273903	MMI	390638	5387265	TULLABARDINE	37/89	-0.00005	0.537	0.0001	3.3	0.026	0.037	0.953	0.55	0.0025	-0.001	0.469	8.4	-0.00001	-0.00001	0.014	-0.001	2.6	1523
273904	MMI	390665	5387265	TULLABARDINE	37/89	-0.00005	0.396	0.00031	2.4	0.017	0.05	2	1.5	0.007	0.016	0.495	1.8	0.00108	0.00007	0.014	-0.001	2.3	1523
273905	MMI	390689	5387267	TULLABARDINE	37/89	-0.00005	0.378	0.00082	3.6	0.017	0.024	2.8	1.15	0.006	0.013	0.373	8.1	0.00104	-0.00001	0.015	-0.001	0.656	1523
273906	MMI	390689	5387319	TULLABARDINE	37/89	-0.00005	0.203	0.00017	6.9	0.022	0.083	2.6	0.8	0.0075	0.009	1.1	6.1	-0.00001	-0.00001	0.01	-0.001	1.4	1523
273907	MMI	390666	5387319	TULLABARDINE	37/89	-0.00005	0.354	0.00047	3.7	0.019	0.021	2.2	1.5	0.0034	0.022	0.761	6.1	0.00028	-0.00001	0.011	-0.001	0.834	1523
273908	MMI	390640	5387319	TULLABARDINE	37/89	-0.00005	0.527	0.00287	3.2	0.031	0.044	1.5	1.7	0.0055	0.037	0.35	4.2	0.00012	-0.00001	0.015	-0.001	1.4	1523
273909	MMI	390614	5387320	TULLABARDINE	37/89	-0.00005	0.223	0.00016	2.4	0.013	0.027	0.393	1.1	0.0009	0.034	0.45	1.9	-0.00001	-0.00001	0.007	-0.001	0.989	1523
273910	MMI	390589	5387319	TULLABARDINE	37/89	-0.00005	0.046	0.00009	1.8	0.033	0.034	0.569	0.075	0.004	0.007	0.146	3.3	-0.00001	-0.00001	0.002	-0.001	2.6	1523
273911	MMI	390566	5387319	TULLABARDINE	37/89	-0.00005	0.256	0.0002	2	0.018	0.471	0.517	0.85	0.022	0.042	0.282	8.7	0.00015	-0.00001	0.037	-0.001	2.7	1523
273912	MMI	390539	5387319	TULLABARDINE	37/89	0.0095	0.078	0.00017	1.4	0.008	0.028	0.55	0.068	0.0025	0.024	0.204	3	0.00027	-0.00001	0.011	-0.001	1.9	1523
273913	MMI	390516	5387319	TULLABARDINE	37/89	-0.00005	0.087	-0.00001	2.4	0.017	0.022	0.307	0.068	0.0018	-0.001	0.162	4.7	-0.00001	-0.00001	0.004	-0.001	2.1	1523
273914	MMI	390490	5387319	TULLABARDINE	37/89	-0.00005	0.017	0.00021	0.625	0.005	0.021	0.063	0.058	0.0003	0.011	0.137	0.744	0.00039	0.00004	0.002	-0.001	0.325	1523
					Method	*IC8/37*	*IC8/37*	*IC8/37*	*IC8/37*	*IC8/37*	*IC8/37*	*IC8/37*	*IC8/37*	*IC8/37*	*IC8/37*	*IC8/37*	*IC8/37*	*IC8/37*	*IC8/37*	*IC8/37*	*IC8/37*	*IC8/37*	*IC8/37*	
					Det Limit	*0.00005*	*0.001*	*0.00001*	*0.001*	*0.001*	*0.001*	*0.001*	*0.0001*	*0.0001*	*0.001*	*0.001*	*0.001*	*-0.00001*	*-0.00001*	*0.001*	*-0.001*	*-0.001*	

163027

Tas
Tullabardine Soils.

Job: 8AD2511
O/N: 1523

Final

ANALYTICAL REPORT

SAMPLE	Ag	As	Au	Ba	Bi	Cd	Co
273777	<0.05	43	<0.01	232	<0.1	1	47
273778	<0.05	912	<0.01	896	4.0	11	62
273779	<0.05	1300	<0.01	1500	17	4	60
273780	<0.05	73	<0.01	964	<0.1	58	23
273781	<0.05	530	<0.01	784	0.4	9	64
273782	<0.05	1300	<0.01	6500	18	32	1600
273783	<0.05	239	<0.01	1300	<0.1	13	91
273784	<0.05	78	<0.01	581	<0.1	5	23
273785	<0.05	249	<0.01	4500	<0.1	14	199
273786	1.1	597	<0.01	3800	4.7	13	906
273787	1.8	1000	<0.01	3300	5.0	30	1500
273788	0.80	654	<0.01	2000	1.4	22	203
273789	<0.05	125	<0.01	1000	<0.1	10	126
273790	<0.05	25	<0.01	624	<0.1	11	59
273791	<0.05	<1	<0.01	1000	<0.1	9	19
273792	<0.05	23	<0.01	2300	<0.1	9	13
273793	<0.05	667	<0.01	2100	2.5	84	2900
273794	2.0	1600	<0.01	2100	10.0	46	1000
273795	3.7	1400	<0.01	1100	8.4	62	5300
273796	5.1	935	<0.01	2100	7.4	10	1600
273797	4.3	1300	<0.01	2200	10	20	656
273798	4.9	2100	<0.01	2400	21	13	4100
273799	0.25	464	<0.01	1300	3.1	11	43
273800	<0.05	310	0.18	1200	<0.1	11	55
273801	0.20	280	<0.01	1200	<0.1	9	61
273802	0.35	1200	<0.01	2900	8.3	18	1200
273803	<0.05	720	<0.01	3500	8.5	11	545
273804	<0.05	991	<0.01	1800	4.5	5	101
273805	0.35	891	0.24	2300	6.3	7	106

	273806	<0.05	521	<0.01	592	1.1	12
37							
	273807	1.00	850	0.08	666	1.3	10
22							
	273808	2.9	150	0.31	1800	2.1	6
356							
	273809	3.9	1600	0.31	3300	18	6
1100							
	273810	3.7	2400	0.38	2400	19	3
85							
	273811	8.2	1000	0.28	2400	13	23
1700							
	273812	12	864	0.24	6800	20	30
6000							
	273813	12	1200	0.17	4000	11	28
2100							
	273814	10	1800	0.25	1300	21	15
238							
	273815	5.7	2200	0.12	2000	10	17
63							
	273816	4.1	1500	0.41	1100	14	7
27							
	273817	4.4	1800	1.03	2700	12	22
971							
	273818	4.7	1300	0.32	2400	11	12
273							
	273819	37	874	0.34	1400	4.0	108
6300							
	273820	1.7	69	0.36	1000	0.2	57
41							
	273821	13	1700	0.34	5600	15	88
14500							
	273822	11	1100	0.42	2100	12	17
4700							
	273823	6.0	542	0.15	4700	17	33
273							
	273824	2.7	854	0.28	2500	16	14
181							
	273825	1.3	99	<0.01	2000	0.8	5
115							
	273826	2.5	261	0.26	1400	14	4
22							
	UNITS	ppb	ppb	ppb	ppb	ppb	ppb
ppb							
	DET.LIM	0.05	1	0.01	1	0.1	1
1							
	SCHEME	IC8/37	IC8/37	IC8/37	IC8/37	IC8/37	IC8/37
IC8/37							
UPPER	SCHEME						
IC8M							

Job: 8AD2511
O/N: 1523

Final

ANALYTICAL REPORT

SAMPLE	Ag	As	Au	Ba	Bi	Cd
Co						
273827	3.4	174	0.07	2400	5.4	6
23						
273828	2.2	56	<0.01	1700	0.3	9
39						
273829	1.3	49	<0.01	1800	0.1	7

25	273830	1.4	525	0.32	4000	7.4	18
3700	273831	1.4	937	0.15	5600	11	32
2400	273832	0.50	870	<0.01	5600	7.4	151
2100	273833	5.4	137	<0.01	4100	3.6	21
75	273834	20	656	0.34	3600	11	89
3200	273835	8.7	706	<0.01	2500	14	29
21000	273836	3.5	77	<0.01	475	<0.1	9
54	273837	5.1	370	<0.01	1400	2.9	13
26	273838	4.1	840	0.59	3300	15	16
73	273839	5.6	1000	0.17	2700	13	19
50	273840	0.10	34	<0.01	3200	<0.1	46
115	273841	<0.05	279	<0.01	1100	<0.1	8
64	273842	2.0	188	<0.01	1400	6.7	4
58	273843	2.5	1500	0.31	5300	24	8
2900	273844	<0.05	1500	<0.01	2300	6.8	22
683	273845	<0.05	136	<0.01	2300	2.5	9
53	273846	1.2	262	<0.01	6500	3.8	15
3000	273847	<0.05	349	<0.01	3500	13	10
104	273848	1.0	1800	<0.01	3000	31	10
631	273849	0.45	262	<0.01	9100	7.6	26
1100	273850	0.05	244	<0.01	1200	5.7	10
27	273851	<0.05	241	<0.01	1400	3.8	14
20	273852	7.7	419	<0.01	7800	1.1	14
195	273853	3.1	591	<0.01	1600	6.6	9
26	273854	<0.05	1100	<0.01	1400	<0.1	22
94	273855	<0.05	1200	0.03	4000	5.8	13
189	273856	3.2	853	0.57	2000	5.1	19
1800	273857	3.9	1400	0.79	2000	9.8	14
4400	273858	<0.05	684	<0.01	2600	7.7	27
138	273859	<0.05	648	0.02	3200	10	18
147	273860	<0.05	48	0.02	1000	<0.1	65
19	273861	0.80	495	0.01	2700	9.6	15
73	273862	0.45	524	0.12	3600	10	11

46	273863	<0.05	294	<0.01	1100	1.1	16
93	273864	1.1	487	0.02	3800	14	14
410	273865	5.8	250	0.09	1700	7.3	8
24	273866	1.5	19	<0.01	2500	0.3	7
15	273867	<0.05	281	0.15	9000	4.8	48
236	273868	<0.05	287	0.12	7800	6.6	27
169	273869	0.75	277	0.24	5300	3.7	15
290	273870	3.2	314	<0.01	4900	2.5	14
313	273871	1.9	158	0.03	1900	0.8	17
55	273872	0.95	65	<0.01	972	0.7	15
101	273873	<0.05	554	<0.01	765	1.9	9
25	273874	0.10	154	<0.01	1700	0.3	12
24	273875	<0.05	71	<0.01	27	0.5	15
133	273876	10	34	0.07	816	0.8	7
57							
	UNITS	ppb	ppb	ppb	ppb	ppb	ppb
ppb							
	DET.LIM	0.05	1	0.01	1	0.1	1
1							
	SCHEME	IC8/37	IC8/37	IC8/37	IC8/37	IC8/37	IC8/37
IC8/37							
	UPPER SCHEME						
IC8M							

Job: 8AD2511
O/N: 1523

Final

ANALYTICAL REPORT

	SAMPLE	Ag	As	Au	Ba	Bi	Cd
Co							
	273877	1.2	350	0.13	2600	5.4	7
50	273878	2.2	99	<0.01	737	0.8	5
59	273879	1.6	206	0.04	1900	1.6	13
51	273880	0.80	100	<0.01	4100	0.4	15
29	273881	2.9	387	0.23	6000	4.6	28
76	273882	3.6	425	0.57	3000	8.5	39
410	273883	<0.05	139	<0.01	1300	1.3	17
40	273884	0.45	335	<0.01	6500	7.1	27
91	273885	<0.05	312	0.01	2100	2.3	12
37							

163031

273886	4.1	159	0.06	2600	12	12
273887	1.7	181	0.21	2600	14	7
273888	0.40	127	<0.01	3600	0.5	15
273889	<0.05	123	0.04	451	2.6	178
273890	4.2	115	0.25	856	0.6	1300
273891	<0.05	357	0.65	6100	3.3	43
273892	2.8	548	0.48	2900	9.2	9
273893	<0.05	161	<0.01	1300	<0.1	6
273894	<0.05	23	<0.01	1100	<0.1	4

163032

38	273886	4.1	159	0.06	2600	12	12
35	273887	1.7	181	0.21	2600	14	7
42	273888	0.40	127	<0.01	3600	0.5	15
822	273889	<0.05	123	0.04	451	2.6	178
4500	273890	4.2	115	0.25	856	0.6	1300
1300	273891	<0.05	357	0.65	6100	3.3	43
123	273892	2.8	548	0.48	2900	9.2	9
17	273893	<0.05	161	<0.01	1300	<0.1	6
15	273894	<0.05	23	<0.01	1100	<0.1	4
94	273895	1.4	1600	0.38	3900	15	8
4000	273896	26	1200	0.17	3400	6.9	67
4400	273897	0.85	796	0.26	2000	2.2	21
618	273898	<0.05	418	0.54	6200	7.4	21
408	273899	<0.05	429	0.44	6300	7.7	25
20	273900	<0.05	41	0.51	1100	<0.1	59
42	273901	<0.05	565	0.87	2700	7.4	23
29	273902	<0.05	270	0.09	2200	<0.1	21
37	273903	<0.05	537	0.10	3300	6.4	26
50	273904	<0.05	396	0.31	2400	2.3	17
24	273905	<0.05	378	0.82	3600	16	17
83	273906	<0.05	203	0.17	6900	1.9	22
21	273907	<0.05	354	0.47	3700	3.4	19
44	273908	<0.05	527	2.87	3200	6.8	31
27	273909	<0.05	223	0.16	2400	1.0	13
34	273910	<0.05	46	0.09	1800	<0.1	33
471	273911	<0.05	256	0.20	2000	0.6	18
28	273912	9.5	78	0.17	1400	<0.1	8
22	273913	<0.05	87	<0.01	2400	<0.1	17
21	273914	<0.05	17	0.21	625	<0.1	5

ppb

1

IC8/37

Final

Pd

<0.01

<0.01

0.04

<0.01

<0.01

<0.01

<0.01

<0.01

<0.01

0.97

0.98

<0.01

<0.01

<0.01

<0.01

<0.01

<0.01

2.00

1.46

1.27

1.86

3.13

Job: 8AD2511
O/N: 1523

ANALYTICAL REPORT

SAMPLE	Cu	Fe	Mn	Mo	Ni	Pb
UNITS	ppb	ppb	ppb	ppb	ppb	ppb
DET.LIM	0.05	1	0.01	1	0.1	1
SCHEME	IC8/37	IC8/37	IC8/37	IC8/37	IC8/37	IC8/37
273777	371	36.0	3.5	<1	82	429
273778	2800	1050	0.8	27	225	5800
273779	1100	2000	6.5	21	168	9700
273780	233	61	1.3	6	59	4200
273781	387	500	1.7	13	159	3500
273782	2300	2050	140	21	1500	5100
273783	303	550	6.5	12	269	1100
273784	127	125	0.9	14	111	485
273785	1100	650	7.5	17	722	1800
273786	2000	850	19.5	32	646	3200
273787	2300	1050	135	51	853	2900
273788	1600	550	13.0	48	527	1800
273789	726	390	9.0	11	190	2100
273790	148	190	4.1	3	154	1000
273791	325	28.5	5.0	<1	142	203
273792	<1	120	0.8	4	319	714
273793	2900	1050	270	8	2500	3200
273794	3000	1850	35.0	116	962	3900
273795	6700	1650	600	65	1300	4400
273796	1500	1550	175	40	240	2000
273797	1900	1450	110	54	498	2700
273798	5500	2100	110	106	587	6700

	273799	799	1100	2.9	26	483	1100
<0.01							
	273800	642	650	1.1	12	408	495
<0.01							
	273801	599	500	1.8	30	163	994
<0.01							
	273802	1200	2000	240	22	1100	1900
<0.01							
	273803	2900	1750	12.0	4	769	5700
0.33							
	273804	616	1800	2.2	8	149	2700
<0.01							
	273805	742	1900	5.0	16	202	2100
0.83							
	273806	401	320	4.7	6	100	1600
<0.01							
	273807	346	430	3.5	13	106	2400
<0.01							
	273808	1200	1300	8.5	12	771	1100
5.04							
	273809	1900	1900	38.5	30	205	14000
2.18							
	273810	1200	2250	9.0	18	154	4100
1.85							
	273811	3300	1550	210	23	670	3500
3.97							
	273812	4700	1800	400	19	1800	4100
1.08							
	273813	2300	1800	46.0	60	802	3700
0.54							
	273814	2200	<0.1	10.0	121	241	1900
1.45							
	273815	2000	2350	8.0	44	747	2000
0.54							
	273816	2400	2250	12.0	56	142	2800
1.27							
	273817	11000	1700	51	47	1600	9100
3.15							
	273818	4100	2100	51	41	158	3200
1.50							
	273819	24500	1000	500	38	1400	5900
1.28							
	273820	311	68	2.3	9	44	4200
<0.01							
	273821	7300	1250	800	52	2300	16500
1.20							
	273822	2600	1750	320	35	338	6200
1.91							
	273823	2000	2400	21.0	11	410	6700
0.90							
	273824	2500	2000	12.5	26	458	2000
0.58							
	273825	381	340	8.0	<1	167	1300
0.07							
	273826	1500	1650	0.8	16	143	1000
1.32							
	UNITS	ppb	ppm	ppm	ppb	ppb	ppb
ppb							
	DET.LIM	1	0.1	0.1	1	1	1
0.01							
	SCHEME	IC8/37	IC8/37	IC8/37	IC8/37	IC8/37	IC8/37
IC8/37							

UPPER SCHEME IC8M

163035

Job: 8AD2511
O/N: 1523

ANALYTICAL REPORT

SAMPLE	Cu	Fe	Mn	Mo	Ni	Pb	Final Pd
273827	1300	1150	0.5	12	404	585	<0.01
273828	351	310	1.8	<1	498	733	<0.01
273829	29	210	4.2	<1	161	483	<0.01
273830	3400	1700	270	8	1200	2300	0.11
273831	2800	2150	145	29	4000	3700	0.22
273832	1700	1650	410	31	2100	5500	<0.01
273833	553	470	8.0	28	401	798	0.48
273834	4700	2500	230	64	2200	8200	2.06
273835	8900	1250	600	26	982	13500	0.91
273836	290	190	22.0	22	125	993	0.14
273837	1000	1100	21.0	35	245	1400	0.24
273838	1200	2450	23.5	29	734	3100	3.09
273839	1700	2550	11.0	61	324	3000	0.74
273840	122	130	6.5	<1	700	1000	<0.01
273841	645	250	2.8	<1	711	253	<0.01
273842	1000	1150	1.8	21	238	378	0.34
273843	2800	1600	450	23	4300	7300	2.06
273844	635	900	160	5	1900	2200	0.25
273845	1000	1700	3.4	12	409	848	0.82
273846	3200	390	170	10	985	2200	3.36
273847	550	1750	4.5	20	573	1300	0.89
273848	1200	2750	61	53	622	1400	1.83
273849	3500	1100	480	22	1200	2200	1.54
273850	760	1950	2.4	23	208	1400	0.63
273851	1300	1950	8.0	20	346	787	0.66
273852	1900	430	63	10	2400	1100	0.90
273853	732	2350	3.7	23	273	547	0.75
273854	425	340	23.0	1	1200	684	<0.01
273855	1700	2300	100	16	849	2000	1.33

	273856	14500	1400	300	38	378	8300
1.38							
	273857	3500	2150	450	104	218	4700
4.79							
	273858	2900	3300	170	38	203	1100
1.32							
	273859	2500	2500	150	18	460	1600
0.61							
	273860	327	100	1.9	9	116	3700
<0.01							
	273861	735	2850	15.0	17	326	1400
0.48							
	273862	1600	2300	5.5	19	241	2500
0.63							
	273863	265	200	2.2	1	271	935
0.05							
	273864	2000	2050	27.0	43	928	2300
1.17							
	273865	468	1150	0.8	23	187	2200
0.04							
	273866	122	90	8.0	3	307	556
0.05							
	273867	2100	1150	7.5	8	1800	1800
0.48							
	273868	3300	2750	14.5	16	1400	1700
0.93							
	273869	2000	2300	12.0	40	1900	790
2.02							
	273870	1700	1300	40.5	18	1600	992
0.88							
	273871	420	490	27.0	13	733	1200
0.52							
	273872	291	390	13.5	2	754	800
<0.01							
	273873	432	1100	2.9	4	307	450
0.13							
	273874	155	650	4.0	8	410	849
<0.01							
	273875	144	210	8.5	<1	286	582
<0.01							
	273876	287	70	4.4	15	192	1100
0.08							
	UNITS	ppb	ppm	ppm	ppb	ppb	ppb
ppb							
	DET.LIM	1	0.1	0.1	1	1	1
0.01							
	SCHEME	IC8/37	IC8/37	IC8/37	IC8/37	IC8/37	IC8/37
IC8/37							
	UPPER SCHEME						IC8M

Job: 8AD2511
O/N: 1523

Final

ANALYTICAL REPORT

	SAMPLE	Cu	Fe	Mn	Mo	Ni	Pb
Pd							
	273877	375	1250	2.8	34	318	2600
0.59							
	273878	1000	71	1.4	<1	324	1300
<0.01							
	273879	1900	1050	7.5	12	739	2100
0.26							

163037

<0.01	273880	567	420	12.0	3	489	4000
0.66	273881	1500	2250	21.5	16	622	6300
1.58	273882	5400	2000	48.5	26	476	5100
0.03	273883	371	340	2.0	1	340	543
1.15	273884	207	600	7.5	5	382	2600
0.33	273885	716	950	3.5	12	521	1700
1.28	273886	432	2650	1.7	15	309	751
1.21	273887	262	2200	0.8	26	397	1200
0.08	273888	82	470	7.0	3	491	473
0.16	273889	579	550	79	<1	7300	213
1.77	273890	7200	1000	440	4	38500	8600
1.20	273891	8600	1350	170	13	1300	12000
1.52	273892	2100	1250	15.5	14	396	2700
<0.01	273893	23	300	3.0	<1	215	594
0.02	273894	56	26.5	2.2	<1	267	481
0.39	273895	1700	2650	4.9	80	445	3300
0.46	273896	6700	1500	550	55	2100	25500
1.42	273897	2400	1150	180	31	1200	18500
0.35	273898	2300	1900	68	12	594	4700
0.79	273899	2700	2100	35.0	14	643	5500
0.55	273900	173	48.0	1.0	6	71	4000
0.35	273901	1300	2000	3.1	7	292	4400
<0.01	273902	836	160	2.8	<1	263	2000
<0.01	273903	953	550	2.5	<1	469	8400
1.08	273904	2000	1500	7.0	16	495	1800
1.04	273905	2800	1150	6.0	13	373	8100
<0.01	273906	2600	800	7.5	9	1100	6100
0.28	273907	2200	1500	3.4	22	761	6100
0.12	273908	1500	1700	5.5	37	350	4200
<0.01	273909	393	1100	0.9	34	450	1900
<0.01	273910	569	75	4.0	7	146	3300
0.15	273911	517	850	22.0	42	282	8700
0.27	273912	550	88	2.5	24	204	3000

163038

	273913	307	68	1.8	<1	162	4700
<0.01							
	273914	63	58	0.3	11	137	744
0.39							

	UNITS	ppb	ppm	ppm	ppb	ppb	ppb
ppb							
	DET.LIM	1	0.1	0.1	1	1	1
0.01							
	SCHEME	IC8/37	IC8/37	IC8/37	IC8/37	IC8/37	IC8/37
IC8/37							
	UPPER SCHEME					IC8M	IC8M

of 9

Job: 8AD2511
O/N: 1523

Final

ANALYTICAL REPORT

SAMPLE	Pt	Sb	Tl	Zn
273777	<0.01	<1	<1	408
273778	<0.01	13	<1	1400
273779	<0.01	20	<1	743
273780	<0.01	<1	<1	23000
273781	<0.01	3	<1	2500
273782	<0.01	18	<1	11000
273783	<0.01	3	<1	3800
273784	<0.01	2	<1	1000
273785	<0.01	5	<1	2200
273786	<0.01	36	<1	4200
273787	<0.01	60	<1	4900
273788	<0.01	23	<1	2200
273789	<0.01	3	<1	2300
273790	<0.01	<1	<1	1200
273791	<0.01	<1	<1	2400
273792	<0.01	<1	<1	851
273793	<0.01	12	<1	11500
273794	<0.01	141	<1	12500
273795	<0.01	85	<1	12000
273796	<0.01	76	<1	2000
273797	<0.01	96	<1	3200
273798	<0.01	238	<1	4000
273799	<0.01	19	<1	1500
273800	<0.01	7	<1	1800
273801	<0.01	12	<1	1900
273802	<0.01	16	<1	4700
273803	<0.01	8	<1	1800
273804	<0.01	10	<1	596
273805	0.05	12	<1	837
273806	0.06	8	<1	1500
273807	<0.01	9	<1	1400
273808	0.25	5	<1	2900
273809	0.05	29	<1	660

163039

273810	0.19	38	2	482
273811	0.18	17	4	2700
273812	<0.01	33	3	4800
273813	<0.01	84	1	6300
273814	0.09	353	1	6000
273815	<0.01	124	<1	1900
273816	0.05	91	<1	944
273817	0.07	130	4	9100
273818	<0.01	92	2	1600
273819	<0.01	104	11	16500
273820	<0.01	3	9	21500
273821	<0.01	102	14	48500
273822	0.03	73	6	4300
273823	0.07	16	4	4700
273824	<0.01	29	2	3500
273825	0.06	6	<1	5400
273826	0.12	9	<1	368
UNITS	ppb	ppb	ppb	ppb
DET.LIM	0.01	1	1	1
SCHEME	IC8/37	IC8/37	IC8/37	IC8/37
UPPER SCHEME				IC8M

Job: 8AD2511
O/N: 1523

Final

ANALYTICAL REPORT

SAMPLE	Pt	Sb	Tl	Zn
273827	<0.01	5	<1	537
273828	<0.01	<1	<1	1800
273829	<0.01	<1	<1	2200
273830	0.04	13	1	3100
273831	<0.01	37	1	17000
273832	0.02	21	3	17000
273833	0.04	10	<1	1300
273834	0.03	141	4	12500
273835	<0.01	76	4	11000
273836	<0.01	5	<1	860
273837	<0.01	23	<1	1000
273838	0.12	70	<1	1100
273839	<0.01	171	<1	2300
273840	<0.01	2	<1	6400
273841	<0.01	16	<1	693
273842	<0.01	13	<1	445
273843	0.05	37	<1	3100
273844	<0.01	14	<1	1700
273845	0.03	7	<1	811
273846	0.07	10	7	1100
273847	<0.01	11	<1	2200
273848	0.08	16	<1	3100
273849	<0.01	9	<1	2800
273850	<0.01	9	<1	476
273851	<0.01	7	<1	1200
273852	0.03	11	<1	2400
273853	<0.01	11	<1	908
273854	<0.01	19	<1	2000
273855	0.01	34	<1	1700
273856	<0.01	66	<1	689
273857	0.18	170	<1	1200
273858	0.06	29	<1	829
273859	<0.01	27	<1	1700
273860	<0.01	2	<1	19500
273861	0.13	13	<1	1600

273862	0.07	16	<1	928
273863	<0.01	8	<1	2200
273864	<0.01	19	<1	3700
273865	<0.01	5	<1	830
273866	<0.01	<1	<1	1600
273867	0.02	5	<1	1200
273868	<0.01	7	<1	1200
273869	0.12	9	<1	1500
273870	0.19	16	<1	5300
273871	0.06	8	<1	3800
273872	<0.01	1	<1	3800
273873	0.06	8	<1	2200
273874	0.02	3	<1	2200
273875	<0.01	<1	<1	2900
273876	0.03	1	<1	1900
UNITS	ppb	ppb	ppb	ppb
DET.LIM	0.01	1	1	1
SCHEME	IC8/37	IC8/37	IC8/37	IC8/37
UPPER SCHEME				IC8M

Job: 8AD2511
O/N: 1323

Final

ANALYTICAL REPORT

SAMPLE	Pt	Sb	Tl	Zn
273877	<0.01	11	<1	998
273878	<0.01	2	<1	2800
273879	0.07	5	<1	2100
273880	<0.01	1	<1	1800
273881	<0.01	7	<1	3000
273882	0.19	13	1	1400
273883	0.03	3	<1	2800
273884	0.14	9	<1	2100
273885	<0.01	6	<1	2800
273886	<0.01	4	<1	957
273887	0.09	7	<1	493
273888	<0.01	8	<1	1700
273889	<0.01	3	<1	15000
273890	0.04	8	<1	315500
273891	0.09	10	<1	2400
273892	<0.01	21	<1	1700
273893	<0.01	14	<1	874
273894	<0.01	1	<1	2300
273895	0.08	173	<1	1400
273896	0.02	106	7	10500
273897	0.03	66	4	7500
273898	<0.01	19	<1	1900
273899	<0.01	20	<1	2700
273900	<0.01	2	<1	19000
273901	0.11	19	<1	2900
273902	<0.01	6	<1	2600
273903	<0.01	14	<1	2600
273904	0.07	14	<1	2300
273905	<0.01	15	<1	656
273906	<0.01	10	<1	1400
273907	<0.01	11	<1	834
273908	<0.01	15	<1	1400
273909	<0.01	7	<1	989
273910	<0.01	2	<1	2600
273911	<0.01	37	<1	2700
273912	<0.01	11	<1	1900
273913	<0.01	4	<1	2100

273914	0.04	2	<1	325

163041

UNITS	ppb	ppb	ppb	ppb
DET.LIM	0.01	1	1	1
SCHEME	IC8/37	IC8/37	IC8/37	IC8/37
UPPER SCHEME				IC8M

APPENDIX 2

Tullabardine Prospect - C-Horizon Soil Sampling Analytical Results

Appendix 2
Tullabardine C-Horizon
Soil Sampling
Results

Sample No	Sample Type	Soil Profile	UTM East	UTM North	Local East	Local North	Project	Tenement No	Ag ppm	As ppm	Au ppm	Au(R) ppb	Ba ppm	Bi ppm	Ca ppm	Cd ppm	Co ppm	Cu ppm	Fe ppm	K ppm	Mg ppm	Mn ppm	Na ppm	Ni ppm	Pb ppm	Sb ppm	Sn ppm	Zn ppm	SDS
330501	SOIL	C Hor	389999	5386496	390000	6500	BULGOBAC HILL	37/89	0.2	53	0.005		300	0.2	355	0.6	88.2	38	72500	19600	2530	3650	1270	71	100	8.8	3.3	573	3707
330502	SOIL	C Hor	390100	5386496	390100	6500	BULGOBAC HILL	37/89	-0.1	17	0.003		355	-0.1	315	0.1	3.8	-5	31500	23500	1820	170	8110	-10	13	3.1	2.6	20	3707
330503	SOIL	C Hor	390088	5386496	390088	6500	BULGOBAC HILL	37/89	0.7	18	0.002		210	0.1	545	0.2	4.2	23	25000	21000	2790	135	1250	-10	13	3.1	3.2	23	3707
330504	SOIL	C Hor	390075	5386496	390075	6500	BULGOBAC HILL	37/89	-0.1	6	0.001		100	0.1	410	0.1	1.2	-5	9370	8100	1090	74	775	-10	12	1.3	2.2	7	3707
330505	SOIL	C Hor	390063	5386496	390063	6500	BULGOBAC HILL	37/89	0.1	7	0.003		200	-0.1	1050	0.2	2.8	-5	9260	19000	2370	170	2130	-10	18	2	2.6	25	3707
330506	SOIL	C Hor	390051	5386496	390050	6500	BULGOBAC HILL	37/89	0.1	19	0.001		245	0.2	435	0.2	7.2	27	49500	18400	2660	280	1130	10	134	2.8	3.1	97	3707
330507	SOIL	C Hor	390039	5386496	390038	6500	BULGOBAC HILL	37/89	-0.1	24	0.002	3	170	0.1	455	0.2	11.4	20	45000	15600	1760	560	1200	-10	59	2.9	2.3	164	3707
330508	SOIL	C Hor	390026	5386496	390025	6500	BULGOBAC HILL	37/89	0.3	45	0.004		295	0.2	675	1.9	166.5	39	60000	16200	2330	14400	1830	51	168	6.9	2.7	469	3707
330509	SOIL	C Hor	390014	5386496	390013	6500	BULGOBAC HILL	37/89	0.2	35	0.002		230	0.1	410	0.9	97.7	20	35500	14800	1950	5280	3810	18	110	5.7	2.9	232	3707
330510	SOIL	C Hor	389989	5386496	389988	6500	BULGOBAC HILL	37/89	0.1	28	0.003		210	-0.1	420	0.3	21.3	24	39500	13000	1940	345	880	30	62	6.7	1.8	212	3707
330511	SOIL	C Hor	389976	5386497	389975	6500	BULGOBAC HILL	37/89	0.7	33	0.005		250	0.1	345	3.5	456	367	26500	10000	1770	29500	1260	105	222	7.6	2.2	516	3707
330512	SOIL	C Hor	389964	5386496	389963	6500	BULGOBAC HILL	37/89	0.2	14	0.001		160	-0.1	180	0.1	2.7	12	14200	12100	1390	335	1290	-10	23	3.3	1.4	26	3707
330513	SOIL	C Hor	389952	5386496	389950	6500	BULGOBAC HILL	37/89	0.1	21	0.003		155	-0.1	130	0.1	3.4	30	29500	10900	1340	285	1530	-10	32	4.9	1.9	28	3707
330514	SOIL	C Hor	389939	5386496	389938	6500	BULGOBAC HILL	37/89	0.3	61	0.001		325	0.3	140	0.2	26.9	149	67500	21500	3380	335	1390	79	81	14.8	3.5	264	3707
330515	SOIL	C Hor	389926	5386496	389925	6500	BULGOBAC HILL	37/89	1.7	48	0.002		330	0.1	135	0.2	1.9	52	23000	23000	3100	43	2140	-10	69	9.3	2.7	43	3707
330516	SOIL	C Hor	389913	5386496	389912	6500	BULGOBAC HILL	37/89	0.8	53	0.003		305	0.3	130	0.1	3.4	54	55500	19600	3860	135	885	11	67	10	3	48	3707
330517	SOIL	C Hor	389900	5386496	389900	6500	BULGOBAC HILL	37/89	0.2	15	0.003		190	-0.1	215	-0.1	0.7	-5	11200	13700	1520	51	1160	-10	14	3.1	1.6	7	3707
330518	SOIL	C Hor	389888	5386496	389888	6500	BULGOBAC HILL	37/89	0.1	31	0.002		225	0.1	190	-0.1	1.4	13	33500	14800	2020	58	625	-10	23	6.5	2	22	3707
330519	SOIL	C Hor	389876	5386494	389875	6500	BULGOBAC HILL	37/89	0.1	29	0.002		225	0.1	285	0.1	1	12	16100	17700	2200	48	595	-10	24	6.1	2.2	15	3707
330520	SOIL	C Hor	389863	5386495	389863	6500	BULGOBAC HILL	37/89	0.2	27	0.002		285	-0.1	215	0.1	1.6	17	22500	18800	1890	54	700	-10	43	6.7	1.8	50	3707
330521	SOIL	C Hor	389850	5386495	389850	6500	BULGOBAC HILL	37/89	0.2	36	0.002		305	0.1	745	0.2	9.3	37	34500	20000	2690	255	830	-10	54	10.6	2.3	178	3707
330522	SOIL	C Hor	389839	5386495	389838	6500	BULGOBAC HILL	37/89	-0.1	26	0.001		125	-0.1	245	0.1	12.4	12	31500	7000	1020	530	390	-10	20	3.8	1.1	87	3707
330523	SOIL	C Hor	389827	5386495	389825	6500	BULGOBAC HILL	37/89	0.1	107	0.003		290	0.2	235	0.2	38.4	122	96500	26000	4750	545	960	96	34	13.4	2.6	337	3707
330524	SOIL	C Hor	389814	5386496	389813	6500	BULGOBAC HILL	37/89	0.1	42	0.002		240	0.1	240	0.2	11	27	38500	25500	7060	385	775	40	20	4.4	2.5	41	3707
330525	SOIL	C Hor	389800	5386496	389800	6500	BULGOBAC HILL	37/89	0.2	44	0.003	3	265	0.3	245	0.2	75	89	40000	24000	4120	450	990	110	37	6.1	3.2	73	3707
330526	SOIL	C Hor	389788	5386495	389788	6500	BULGOBAC HILL	37/89	-0.1	24	0.002		290	0.1	350	0.2	5	15	38000	19500	3950	245	980	25	26	2.6	2.1	44	3707
330527	SOIL	C Hor	389776	5386495	389775	6500	BULGOBAC HILL	37/89	-0.1	27	0.001		235	0.2	380	0.2	2.5	10	40000	14300	2890	65	980	13	23	2.8	2.4	21	3707
330528	SOIL	C Hor	389764	5386494	389763	6500	BULGOBAC HILL	37/89	-0.1	13	0.001		155	0.1	325	0.2	1.4	42	20500	11800	1900	75	545	-10	8	1.6	1.5	9	3707
330529	SOIL	C Hor	389753	5386494	389750	6500	BULGOBAC HILL	37/89	0.2	62	0.002		280	0.4	530	0.1	6.4	19	47000	17700	4270	175	985	39	87	4.4	1.9	35	3707
330530	SOIL	C Hor	389739	5386493	389738	6500	BULGOBAC HILL	37/89	-0.1	43	-0.001	-1	345	-0.1	170	0.1	4.9	-5	35500	17700	2140	1730	420	19	42	3.7	1.1	21	3707
330531	SOIL	C Hor	389725	5386493	389725	6500	BULGOBAC HILL	37/89	19.1	85	0.002		250	0.4	295	0.2	19.5	36	43500	19800	2830	1240	395	47	329	5.7	1.9	56	3707
330532	SOIL	C Hor	389713	5386493	389713	6500	BULGOBAC HILL	37/89	0.2	50	0.003		99	0.1	680	0.2	7.6	46	69500	2200	3420	260	180	38	49	4.1	1.6	56	3707
330533	SOIL	C Hor	389697	5386495	389700	6500	BULGOBAC HILL	37/89	-0.1	28	-0.001		220	-0.1	240	0.2	16.5	82	88000	4200	13100	290	240	92	27	3.3	2.2	140	3707
								Method	*M104*	*M104*	*F651*	*F651*	*X401*	*M104*	*I104*	*M104*	*M104*	*I104*	*I104*	*I104*	*I104*	*I104*	*I104*	*I104*	*M104*	*M104*	*M104*	*I104*	
								Det Limit	*0.1*	*1*	*0.001*	*1*	*10*	*0.1*	*50*	*0.1*	*0.2*	*5*	*100*	*500*	*20*	*10*	*50*	*10*	*1*	*0.1*	*0.5*	*5*	

163044

A N A L A B S

Analabs Pty. Ltd.
ACN 004 591 664
14 Thirkell St, Burnie
Tasmania 7320
Telephone : (03) 6431 6837
Facsimile : (03) 6431 8890

Our reference	: BU015869
Your reference	: **3707**
Project code	: Soil Samples
Date received	: 17/02/99
Date reported	: 19/03/99

To:
Bulg Hill

Owen Parfrey

Pasminco Exploration
P.O.Box 1291K
Melbourne

VIC 3001

Number of pages of results	: 4
Number of Samples	: 33
First Sample	: 330501
Last Sample	: 330533

Invoice to:
Owen Parfrey

Pasminco Exploration
P.O.Box 1291K
Melbourne

VIC 3001

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

Results to:

Results to:

Remarks :

Authorised by .....
On behalf of:

Rob Chapman
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.

163045

ANALABS

Our reference : BU015869
Your reference : 3707
Project code : Soil Samples
Report date : 19/03/99
Report status : Final
Page : 1 of 4

Analabs Pty. Ltd.
ACN 004 591 664
14 Thirkell St, Burnie
Tasmania 7320
Telephone : (03) 6431 6837
Facsimile : (03) 6431 8890

ANALYTICAL DATA

Sample	Pb	As	Ag	Cd	Co	Sb
330501	100	53	0.2	0.6	88.2	8.8
330502	13	17	<0.1	0.1	3.8	3.1
330503	13	18	0.7	0.2	4.2	3.1
330504	12	6	<0.1	0.1	1.2	1.3
330505	18	7	0.1	0.2	2.8	2.0
330506	134	19	0.1	0.2	7.2	2.8
330507	59	24	<0.1	0.2	11.4	2.9
330508	168	45	0.3	1.9	166.5	6.9
330509	110	35	0.2	0.9	97.7	5.7
330510	62	28	0.1	0.3	21.3	6.7
330511	222	33	0.7	3.5	456	7.6
330512	23	14	0.2	0.1	2.7	3.3
330513	32	21	0.1	0.1	3.4	4.9
330514	81	61	0.3	0.2	26.9	14.8
330515	69	48	1.7	0.2	1.9	9.3
330516	67	53	0.8	0.1	3.4	10.0
330517	14	15	0.2	<0.1	0.7	3.1
330518	23	31	0.1	<0.1	1.4	6.5
330519	24	29	0.1	0.1	1.0	6.1
330520	43	27	0.2	0.1	1.6	6.7
330521	54	36	0.2	0.2	9.3	10.6
330522	20	26	<0.1	0.1	12.4	3.8
330523	34	107	0.1	0.2	38.4	13.4
330524	20	42	0.1	0.2	11.0	4.4
330525	37	44	0.2	0.2	75.0	6.1
330526	26	24	<0.1	0.2	5.0	2.6
330527	23	27	<0.1	0.2	2.5	2.8
330528	8	13	<0.1	0.2	1.4	1.6
330529	87	62	0.2	0.1	6.4	4.4
330530	42	43	<0.1	0.1	4.9	3.7
330531	329	85	19.1	0.2	19.5	5.7
330532	49	50	0.2	0.2	7.6	4.1
330533	27	28	<0.1	0.2	16.5	3.3
Method	M104	M104	M104	M104	M104	M104
Units	ppm	ppm	ppm	ppm	ppm	ppm
Detection Limit	1	1	0.1	0.1	0.2	0.1

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

163046

A N A L A B S

Our reference : BU015869
Your reference : 3707
Project code : Soil Samples
Report date : 19/03/99
Report status : Final
Page : 2 of 4

Analabs Pty. Ltd.
ACN 004 591 664
14 Thirkell St, Burnie
Tasmania 7320
Telephone : (03) 6431 6837
Facsimile : (03) 6431 8890

ANALYTICAL DATA

Sample	Zn	Cu	Ni	Fe	Mn	Na
330501	573	38	71	7.25%	3650	1270
330502	20	<5	<10	3.15%	170	8110
330503	23	23	<10	2.50%	135	1250
330504	7	<5	<10	9370	74	775
330505	25	<5	<10	9260	170	2130
330506	97	27	10	4.95%	280	1130
330507	164	20	<10	4.50%	560	1200
330508	469	39	51	6.00%	1.44%	1830
330509	232	20	18	3.55%	5280	3810
330510	212	24	30	3.95%	345	880
330511	516	367	105	2.65%	2.95%	1260
330512	26	12	<10	1.42%	335	1290
330513	28	30	<10	2.95%	285	1530
330514	264	149	79	6.75%	335	1390
330515	43	52	<10	2.30%	43	2140
330516	48	54	11	5.55%	135	885
330517	7	<5	<10	1.12%	51	1160
330518	22	13	<10	3.35%	58	625
330519	15	12	<10	1.61%	48	595
330520	50	17	<10	2.25%	54	700
330521	178	37	<10	3.45%	255	830
330522	87	12	<10	3.15%	530	390
330523	337	122	96	9.65%	545	960
330524	41	27	40	3.85%	385	775
330525	73	89	110	4.00%	450	990
330526	44	15	25	3.80%	245	980
330527	21	10	13	4.00%	65	980
330528	9	42	<10	2.05%	75	545
330529	35	19	39	4.70%	175	985
330530	21	<5	19	3.55%	1730	420
330531	56	36	47	4.35%	1240	395
330532	56	46	38	6.95%	260	180
330533	140	82	92	8.80%	290	240
Method	I104	I104	I104	I104	I104	I104
Units	ppm	ppm	ppm	ppm	ppm	ppm
Detection Limit	5	5	10	100	10	50

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

163047

A N A L A B S

Our reference : BU015869
Your reference : 3707
Project code : Soil Samples
Report date : 19/03/99
Report status : Final
Page : 3 of 4

Analabs Pty. Ltd.
ACN 004 591 664
14 Thirkell St, Burnie
Tasmania 7320
Telephone : (03) 6431 6837
Facsimile : (03) 6431 8890

ANALYTICAL DATA

Sample	Au	Au(R)	Ba	Bi	Sn	
330501	5	--	300	0.2	3.3	
330502	3	--	355	<0.1	2.6	
330503	2	--	210	0.1	3.2	
330504	1	--	100	0.1	2.2	
330505	3	--	200	<0.1	2.6	
330506	1	--	245	0.2	3.1	
330507	2	3	170	0.1	2.3	
330508	4	--	295	0.2	2.7	
330509	2	--	230	0.1	2.9	
330510	3	--	210	<0.1	1.8	
330511	5	--	250	0.1	2.2	
330512	1	--	160	<0.1	1.4	
330513	3	--	155	<0.1	1.9	
330514	1	--	325	0.3	3.5	
330515	2	--	330	0.1	2.7	
330516	3	--	305	0.3	3.0	
330517	3	--	190	<0.1	1.6	
330518	2	--	225	0.1	2.0	
330519	2	--	225	0.1	2.2	
330520	2	--	285	<0.1	1.8	
330521	2	--	305	0.1	2.3	
330522	1	--	125	<0.1	1.1	
330523	3	--	290	0.2	2.6	
330524	2	--	240	0.1	2.5	
330525	3	3	265	0.3	3.2	
330526	2	--	290	0.1	2.1	
330527	1	--	235	0.2	2.4	
330528	1	--	155	0.1	1.5	
330529	2	--	280	0.4	1.9	
330530	<1	<1	345	<0.1	1.1	
330531	2	--	250	0.4	1.9	
330532	3	--	99	0.1	1.6	
330533	<1	--	220	<0.1	2.2	
Method	F651	F651	X401	M104	M104	
Units	ppb	ppb	ppm	ppm	ppm	
Detection Limit	1	1	10	0.1	0.5	

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

163048

ANALABS

Our reference : BU015869
Your reference : 3707
Project code : Soil Samples
Report date : 19/03/99
Report status : Final
Page : 4 of 4

Analabs Pty. Ltd.
ACN 004 591 664
14 Thirkell St, Burnie
Tasmania 7320
Telephone : (03) 6431 6837
Facsimile : (03) 6431 8890

ANALYTICAL DATA

Sample	K	Ca	Mg			
330501	1.96%	355	2530			
330502	2.35%	315	1820			
330503	2.10%	545	2790			
330504	8100	410	1090			
330505	1.90%	1050	2370			
330506	1.84%	435	2660			
330507	1.56%	455	1760			
330508	1.62%	675	2330			
330509	1.48%	410	1950			
330510	1.30%	420	1940			
330511	1.00%	345	1770			
330512	1.21%	180	1390			
330513	1.09%	130	1340			
330514	2.15%	140	3380			
330515	2.30%	135	3100			
330516	1.96%	130	3860			
330517	1.37%	215	1520			
330518	1.48%	190	2020			
330519	1.77%	285	2200			
330520	1.88%	215	1890			
330521	2.00%	745	2690			
330522	7000	245	1020			
330523	2.60%	235	4750			
330524	2.55%	240	7060			
330525	2.40%	245	4120			
330526	1.95%	350	3950			
330527	1.43%	380	2890			
330528	1.18%	325	1900			
330529	1.77%	530	4270			
330530	1.77%	170	2140			
330531	1.98%	295	2830			
330532	2200	680	3420			
330533	4200	240	1.31%			
Method	I104	I104	I104			
Units	ppm	ppm	ppm			
Detection Limit	500	50	20			

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

APPENDIX 3

Tullabardine Prospect - Rock Chip Sampling Analytical Results

Appendix 3
Tullabardine Rock Chip Sampling
Results

Sample No	Sample Type	UTM East	UTM North	Prospect	Tenement No	Ag ppm	As ppm	Au ppm	Ba ppm	Ca ppm	Cd ppm	Co ppm	Cu ppm	Fe ppm	Mg ppm	Mn ppm	Na ppm	Ni ppm	Pb ppm	Sb ppm	Sn ppm	Zn ppm	SDS
305081	R/CHIP	390000	5386500	TULLABARDINE	37/89	-0.1	88	0.02	389	563	0.9	77.3	103	64039	4945	10542	995	66	697	3	2.7	208	3708
305082	R/CHIP	390010	5386500	TULLABARDINE	37/89	-0.1	185	0.05	740	1981	2.9	242	93	67379	3245	23010	7330	59	110	3	3.4	269	3708
305083	R/CHIP	389820	5386500	TULLABARDINE	37/89	-0.1	34	0.01	224	219	0.1	18.7	28	39077	11280	650	574	185	17	1.1	1.8	79	3708
305084	R/CHIP	389815	5386500	TULLABARDINE	37/89	1.9	28	0.01	391	118	0.2	9.9	61	26667	9755	219	901	95	52	2	3.4	43	3708
305085	R/CHIP	389785	5386500	TULLABARDINE	37/89	-0.1	15	0	433	84	0.1	1.8	13	10100	2480	38	885	15	13	1.5	2	21	3708
305086	R/CHIP	389795	5386550	TULLABARDINE	37/89	-0.1	12	0	305	66500	0.1	20.2	30	62400	14500	2100	661	123	20	0.9	1.8	44	3708
305087	R/CHIP	390000	5386550	TULLABARDINE	37/89	24.3	148	0.05	287	69100	0.3	42.2	101	64700	24800	1230	12700	37	13	1.1	1.9	100	3708
305088	R/CHIP	390090	5386550	TULLABARDINE	37/89	0.4	44	0.01	335	16436	0.3	32.6	208	38317	7860	1139	2455	73	467	2	2	96	3708
					Method	*M104*	*M104*	*F651*	*X401*	*I104*	*M104*	*M104*	*I104*	*I104*	*I104*	*I104*	*I104*	*I104*	*I104*	*M104*	*M104*	*M104*	*I104*
					Det Limit	*0.1*	*1*	*0*	*10*	*50*	*0.1*	*0.2*	*5*	*100*	*20*	*10*	*50*	*10*	*1*	*0.1*	*0.5*	*5*	

163050

163051

A N A L A B S

Analabs Pty. Ltd.
ACN 004 591 664
14 Thirkell St, Burnie
Tasmania 7320
Telephone : (03) 6431 6837
Facsimile : (03) 6431 8890

Our reference : BU015870
Your reference : **3708**
Project code : Rock Samples
Date received : 17/02/99
Date reported : 13/03/99

Owen Parfrey

Pasminco Exploration
P.O.Box 1291K
Melbourne

VIC 3001

Number of pages of results : 4
Number of Samples : 9
First Sample : 305081
Last Sample : 305089

Invoice to:
Owen Parfrey

Pasminco Exploration
P.O.Box 1291K
Melbourne

VIC 3001

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

Results to:

Results to:

Remarks :

Authorised by .....
~~On behalf of:~~

Rob Chapman
Laboratory Manager

163052

A N A L A B S

Our reference : BU015870
Your reference : **3708**
Project code : *Rock Samples*
Report date : 13/03/99
Report status : Final
Page : 1 of 4

Analabs Pty. Ltd.
ACN 004 591 664
14 Thirkell St, Burnie
Tasmania 7320
Telephone : (03) 6431 6837
Facsimile : (03) 6431 8890

ANALYTICAL DATA

Sample	Pb	As	Ag	Cd	Sn	Co
305081	697	88	<0.1	0.9	2.7	77.3
305082	110	185	<0.1	2.9	3.4	241.9
305083	17	34	<0.1	0.1	1.8	18.7
305084	52	28	1.9	0.2	3.4	9.9
305085	13	15	<0.1	0.1	2.0	1.8
305086	20	12	<0.1	0.1	1.8	20.2
305087	13	148	24.3	0.3	1.9	42.2
305088	467	44	0.4	0.3	2.0	32.6
305089	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.
Method	M104	M104	M104	M104	M104	M104
Units	ppm	ppm	ppm	ppm	ppm	ppm
Detection Limit	1	1	0.1	0.1	0.5	0.2

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

163053

A N A L A B S

Our reference : BU015870
Your reference : 3708
Project code : Rock Samples
Report date : 13/03/99
Report status : Final
Page : 2 of 4

Analabs Pty. Ltd.
ACN 004 591 664
14 Thirkell St, Burnie
Tasmania 7320
Telephone : (03) 6431 6837
Facsimile : (03) 6431 8890

ANALYTICAL DATA

Sample	Cu	Zn	Ni	Co	Fe	Mn
305081	103	208	66	75	64039	10542
305082	93	269	59	236	67379	23010
305083	28	79	185	18	39077	650
305084	61	43	95	10	26667	219
305085	13	21	15	<5	10100	38
305086	30	44	123	19	62400	2100
305087	101	100	37	39	64700	1230
305088	208	96	73	33	38317	1139
305089	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.
Method	I104	I104	I104	I104	I104	I104
Units	ppm	ppm	ppm	ppm	ppm	ppm
Detection Limit	5	5	10	5	100	10

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

163054

ANALABS

Our reference : BU015870
Your reference : 3708
Project code : Rock Samples
Report date : 13/03/99
Report status : Final
Page : 3 of 4

Analabs Pty. Ltd.
ACN 004 591 664
14 Thirkell St. Burnie
Tasmania 7320
Telephone : (03) 6431 6837
Facsimile : (03) 6431 8890

ANALYTICAL DATA

Sample	Au	Au(R)	Ba	Sb	Bi	
305081	24	24	389	3.0	0.4	
305082	50	64	740	3.0	<0.1	
305083	10	--	224	1.1	<0.1	
305084	6	6	391	2.0	0.1	
305085	4	--	433	1.5	<0.1	
305086	3	--	305	0.9	<0.1	
305087	50	58	287	1.1	<0.1	
305088	5	--	335	2.0	<0.1	
305089	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	
Method	F651	F651	X401	M104	M104	
Units	ppb	ppb	ppm	ppm	ppm	
Detection Limit	1	1	10	0.1	0.1	

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

163055

ANALABS

Our reference : BU015870
Your reference : 3708
Project code : Rock Samples
Report date : 13/03/99
Report status : Final
Page : 4 of 4

Analabs Pty. Ltd.
ACN 004 591 664
14 Thirkell St, Burnie
Tasmania 7320
Telephone : (03) 6431 6837
Facsimile : (03) 6431 8890

ANALYTICAL DATA

Sample	Na	Ca	K	Mg		
305081	995	563	3.04%	4945		
305082	7330	1981	3.98%	3245		
305083	574	219	2.43%	11280		
305084	901	118	4.41%	9755		
305085	885	84	2.88%	2480		
305086	661	66500	2.25%	14500		
305087	12700	69100	0.92%	24800		
305088	2455	16436	3.10%	7860		
305089	L.N.R.	L.N.R.	L.N.R.	L.N.R.		
Method	I104	I104	I104	I104		
Units	ppm	ppm	ppm	ppm		
Detection Limit	50	50	500	20		

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

APPENDIX 4

Highpoint Prospect - MMI Sampling
Analytical Results

Appendix 4
Highpoint MMI Sampling
Results

Sample No	Sample Type	UTM East	UTM North	Local East	Local North	Prospect	Tenement No	Ag ppm	As ppm	Au ppm	Ba ppm	Cd ppm	Co ppm	Cu ppm	Mo ppm	Ni ppm	Pb ppm	Pd ppm	Pt ppm	Sb ppm	Tl ppm	Zn ppm	SDS
273601	MMI	387860.3	5394666	1350	7000	HIGHPOINT	19/94	0.0024	0.196	0.00005	12	0.027	0.686	0.733	0.038	2.4	2.1	0.0003	0.00009	0.008	-0.001	15	2350
273602	MMI	387905.1	5394647	1400	7000	HIGHPOINT	19/94	0.0016	0.289	-0.00001	6.5	0.009	0.58	0.329	0.019	1.9	1.3	-0.00001	-0.00001	0.005	-0.001	8.9	2350
273603	MMI	387949.8	5394628	1450	7000	HIGHPOINT	19/94	0.0013	0.226	0.00001	7.8	0.013	0.406	0.418	0.009	1.5	1.3	0.00135	0.0004	0.004	-0.001	6.7	2350
273604	MMI	387994.6	5394608	1500	7000	HIGHPOINT	19/94	0.0011	0.148	-0.00001	8.8	0.012	1.2	0.206	0.023	1.7	0.553	0.00655	0.00041	0.008	-0.001	4.3	2350
273605	MMI	388039.3	5394589	1550	7000	HIGHPOINT	19/94	-0.00005	0.222	-0.00001	12.5	0.001	1.5	0.046	0.018	1.6	1.4	0.00214	0.00011	0.008	-0.001	0.434	2350
273606	MMI	388084.1	5394570	1600	7000	HIGHPOINT	19/94	-0.00005	0.11	-0.00001	5.8	-0.001	0.42	0.138	0.002	1.5	2.2	0.00267	-0.00001	0.004	-0.001	0.18	2350
273607	MMI	388135.1	5394551	1650	7000	HIGHPOINT	19/94	-0.00005	0.169	0.0004	2.7	-0.001	0.037	0.103	0.005	0.243	1.4	0.00069	0.00009	0.005	-0.001	0.058	2350
273608	MMI	388019.5	5394391	1600	6800	HIGHPOINT	19/94	0.0019	0.056	-0.00001	7.7	0.021	-0.001	0.205	-0.001	0.412	0.91	-0.00001	0.00006	0.002	-0.001	4.5	2350
273609	MMI	387973.2	5394410	1550	6800	HIGHPOINT	19/94	0.00055	0.048	-0.00001	2.7	0.007	-0.001	0.064	-0.001	0.325	0.388	-0.00001	0.00001	-0.001	-0.001	1.2	2350
273610	MMI	387926.9	5394429	1500	6800	HIGHPOINT	19/94	-0.00005	0.038	0.00015	0.812	0.013	-0.001	0.043	-0.001	0.127	0.615	-0.00001	0.00005	-0.001	-0.001	3.1	2350
273611	MMI	387880.6	5394449	1450	6800	HIGHPOINT	19/94	-0.00005	0.027	-0.00001	1.2	0.022	-0.001	0.215	-0.001	0.151	1.5	-0.00001	0.00013	-0.001	-0.001	2.9	2350
273613	MMI	387834.3	5394468	1400	6800	HIGHPOINT	19/94	0.00065	0.024	-0.00001	1.8	0.003	-0.001	0.084	-0.001	0.072	0.63	-0.00001	0.00019	-0.001	-0.001	0.953	2350
273614	MMI	387787.9	5394487	1350	6800	HIGHPOINT	19/94	-0.00005	0.048	-0.00001	3.2	0.003	-0.001	0.071	0.004	0.114	0.845	-0.00001	0.00001	0.001	-0.001	3.8	2350
273615	MMI	387741.6	5394506	1300	6800	HIGHPOINT	19/94	0.0003	0.111	0.00052	5.1	0.007	0.078	0.159	0.009	0.292	1.7	-0.00001	0.00008	0.003	-0.001	9.4	2350
273616	MMI	388013.7	5394169	1600	6600	HIGHPOINT	19/94	-0.00005	0.032	0.00001	4.6	0.011	0.022	0.167	-0.001	0.171	0.766	0.00059	-0.00001	0.001	-0.001	4.1	2350
273617	MMI	387965.1	5394189	1550	6600	HIGHPOINT	19/94	0.00045	0.079	0.00003	2.4	0.007	0.002	-0.001	-0.001	0.053	0.719	0.00051	-0.00001	0.003	-0.001	0.451	2350
273618	MMI	387916.4	5394210	1500	6600	HIGHPOINT	19/94	0.0003	0.034	-0.00001	1.9	0.022	0.002	0.186	-0.001	0.105	1.5	-0.00001	-0.00001	0.002	-0.001	3.5	2350
273619	MMI	387867.8	5394230	1450	6600	HIGHPOINT	19/94	0.00025	0.704	0.00002	2.8	-0.001	-0.001	-0.001	0.006	0.036	0.962	0.00015	-0.00001	0.004	-0.001	0.005	2350
273621	MMI	387819.1	5394251	1400	6600	HIGHPOINT	19/94	0.00095	0.346	0.00005	3	-0.001	0.028	0.003	0.002	0.032	2.1	0.00025	-0.00001	0.008	0.001	0.261	2350
273622	MMI	387770.5	5394272	1350	6600	HIGHPOINT	19/94	0.0011	0.477	0.00005	5.1	-0.001	0.077	0.027	0.007	0.101	6.7	0.00063	0.00012	0.016	-0.001	0.038	2350
273623	MMI	387721.9	5394292	1300	6600	HIGHPOINT	19/94	0.0008	0.713	0.00037	3.5	-0.001	0.025	0.031	0.011	0.134	6.7	0.00167	0.00003	0.011	-0.001	0.01	2350
273624	MMI	387683.2	5394084	1450	6400	HIGHPOINT	19/94	0.0005	0.219	0.00015	1.3	-0.001	0.031	0.028	0.009	0.119	1.5	-0.00001	-0.00001	0.004	-0.001	0.266	2350
273625	MMI	387729.8	5394066	1500	6400	HIGHPOINT	19/94	0.00075	0.019	-0.00001	1.5	0.016	-0.001	0.52	-0.001	0.135	0.736	-0.00001	-0.00001	-0.001	-0.001	3.2	2350
273626	MMI	387776.3	5394049	1550	6400	HIGHPOINT	19/94	0.014	0.914	0.00045	3.8	0.025	0.793	0.167	0.077	0.209	3.4	0.0016	0.0001	0.053	-0.001	1.5	2350
273627	MMI	387822.8	5394031	1600	6400	HIGHPOINT	19/94	0.015	0.673	0.00044	3.7	0.019	1.6	0.405	0.025	0.392	5	0.0022	0.00012	0.026	0.004	1.3	2350
273628	MMI	387869.3	5394013	1650	6400	HIGHPOINT	19/94	0.0061	0.084	0.00005	1.5	0.019	0.04	0.69	0.01	0.118	2.1	-0.00001	0.00012	0.002	-0.001	2	2350
273629	MMI	387746.9	5393811	1600	6200	HIGHPOINT	19/94	0.0014	0.035	0.00014	0.974	0.01	0.129	0.129	0.006	0.041	1.1	-0.00001	-0.00001	0.002	-0.001	1	2350
273630	MMI	387790.6	5393793	1650	6200	HIGHPOINT	19/94	0.0015	1.1	0.00006	5.1	-0.001	0.955	-0.001	0.08	0.099	4.1	-0.00001	-0.00001	0.014	-0.001	0.141	2350
273631	MMI	387834.2	5393776	1700	6200	HIGHPOINT	19/94	0.0014	0.608	0.00024	6.1	-0.001	1.6	0.218	0.048	0.15	7.7	-0.00001	-0.00001	0.013	-0.001	0.231	2350
273632	MMI	387877.8	5393758	1750	6200	HIGHPOINT	19/94	0.0012	0.658	-0.00001	3.9	-0.001	0.058	0.056	0.129	0.063	8.6	-0.00001	0.00028	0.014	-0.001	0.186	2350
273633	MMI	387921.4	5393740	1800	6200	HIGHPOINT	19/94	0.00025	0.623	0.00021	3.4	-0.001	0.009	-0.001	0.171	0.056	3	-0.00001	-0.00001	0.013	-0.001	0.185	2350
273634	MMI	387965.1	5393722	1850	6200	HIGHPOINT	19/94	0.0003	0.23	-0.00001	2	-0.001	0.002	-0.001	0.033	0.017	1.9	0.00026	0.00006	0.004	-0.001	0.459	2350
273635	MMI	387634.8	5393723	1550	6000	HIGHPOINT	19/94	-0.00005	0.291	-0.00001	2.6	-0.001	0.009	-0.001	0.017	0.099	1.5	0.00236	0.00006	0.005	-0.001	0.006	2350
273636	MMI	387680.5	5393703	1600	6000	HIGHPOINT	19/94	-0.00005	0.376	-0.00001	4.1	0.002	0.322	-0.001	0.02	0.237	2	0.00036	-0.00001	0.008	-0.001	0.045	2350
273637	MMI	387726.2	5393683	1650	6000	HIGHPOINT	19/94	0.00095	0.297	0.00016	11.5	0.017	0.106	1.8	-0.001	0.403	4.2	-0.00001	0.00004	0.006	-0.001	4.4	2350
273638	MMI	387771.9	5393663	1700	6000	HIGHPOINT	19/94	0.00045	0.164	-0.00001	1.4	0.006	0.012	0.353	-0.001	0.165	0.637	-0.00001	-0.00001	-0.001	-0.001	1.3	2350
273639	MMI	387817.7	5393643	1750	6000	HIGHPOINT	19/94	0.0016	0.613	-0.00001	2.5	0.001	0.254	0.07	0.032	0.052	1.9	-0.00001	-0.00001	0.007	-0.001	0.547	2350
273640	MMI	387863.4	5393623	1800	6000	HIGHPOINT	19/94	0.0003	0.026	-0.00001	0.783	0.008	-0.001	0.148	-0.001	0.06	1.3	-0.00001	-0.00001	-0.001	-0.001	9.6	2350
273641	MMI	387702.7	5393490	1700	5800	HIGHPOINT	19/94	0.003	0.246	0.00003	2.2	0.01	0.035	0.494	0.025	0.092	1.9	-0.00001	0.00001	0.004	-0.001	2.1	2350
273642	MMI	387745.4	5393469	1750	5800	HIGHPOINT	19/94	-0.00005	0.491	-0.00001	2.7	0.001	0.228	-0.001	0.017	0.129	1.7	-0.00001	-0.00001	0.009	-0.001	0.062	2350
273643	MMI	387788.2	5393448	1800	5800	HIGHPOINT	19/94	-0.00005	0.05	0.00015	1.2	0.01	0.008	0.05	0.027	0.009	0.854	-0.00001	-0.00001	0.003	-0.001	1.2	2350
273644	MMI	387830.9	5393426	1850	5800	HIGHPOINT	19/94	-0.00005	0.084	0.00025	2.2	0.011	0.01	0.056	0.024	0.016	1.2	0.00011	-0.00001	0.004	-0.001	1.1	2350
273645	MMI	387873.7	5393405	1900	5800	HIGHPOINT	19/94	0.00005	0.057	0.00024	3.5	0.016	0.008	0.195	0.032	0.027	1.3	-0.00001	-0.00001	0.004	-0.001	1.4	2350
273646	MMI	387916.4	5393384	1950	5800	HIGHPOINT	19/94	-0.00005	0.121	0.00023	8.4	0.002	0.029	-0.001	0.025	0.004	1.6	0.00079	-0.00001	0.003	-0.001	0.071	2350
273647	MMI	387628.2	5393273	1750	5600	HIGHPOINT	19/94	-0.00005	0.37	0.00007	0.555	0.003	0.057	0.646	-0.001	0.471	0.238	-0.00001	-0.00001	0.003	-0.001	1.3	2350
273648	MMI	387672.3	5393253	1800	5600	HIGHPOINT	19/94	-0.00005	0.091	0.00003	4	0.01	0.055	1.1	-0.001	0.194	1.1	-0.00001	0.00001	0.002	-0.001	4	2350
273649	MMI	387716.3	5393233	1850	5600	HIGHPOINT	19/94	-0.00005	1.5	0.00032	1.2	0.002	0.024	0.005	0.053	0.059	2.4	-0.00001	-0.00001	0.021	-0.001	0.036	2350
273650	MMI	387760.3	5393212	1900	5600	HIGHPOINT	19/94	0.0008	0.623	0.00002	2.1	0.015	0.39	0.298	0.017	0.466	2.3	-0.00001	-0.00001	0.012	-0.001	2.7	2350
273651	MMI	387804.4	5393192	1950	5600	HIGHPOINT	19/94	0.0027	0.095	0.00019	1.3	0.035	0.044	1.5	0.006	0.193	3.7	0.00005	-0.00001	0.001	0.001	11	2350
273652	MMI	387848.4	5393172	2000	5600	HIGHPOINT	19/94	-0.00005	0.075	-0.00001	2.6	0.015	0.013	0.343	-0.001	0.149	1.1	-0.00001	0.00006	0.001	-0.001	4.6	2350
273653	MMI	387896.7	5392970	2100	5400	HIGHPOINT	19/94	0.001	0.067	0.00012	1.3	0.011	0.005	0.295	0.028	0.033	1.2	0.00015	-0.00001	0.002	-0.001	1.5	2350
273654	MMI	387852.9	5392987	2050	5400	HIGHPOINT	19/94	0.00005	0.332	0.00016	4.1	-0.001	0.011	0.026	0.084	0.013	2	0.00113	0.00004	0.009	-0.001	0.014	2350
273655	MMI	387809.2	5393005	2000	5400	HIGHPOINT	19/94	0.0003	0.697	0.00026	4	0.001	0.067	0.147	0.087	0.055	3.7	0.00068	-0.00001	0.029	-0.001	0.128	2350

Appendix 4
Highpoint MMI Sampling
Results

Sample No	Sample Type	UTM East	UTM North	Local East	Local North	Prospect	Tenement No	Ag ppm	As ppm	Au ppm	Ba ppm	Cd ppm	Co ppm	Cu ppm	Mo ppm	Ni ppm	Pb ppm	Pd ppm	Pt ppm	Sb ppm	Tl ppm	Zn ppm	SDS
273656	MMI	387765.5	5393023	1950	5400	HIGHPOINT	19/94	-0.00005	0.503	0.00001	4.2	0.027	0.102	0.558	0.015	0.46	2.6	-0.00001	0.00005	0.01	-0.001	4.4	2350
273657	MMI	387719.6	5393039	1900	5400	HIGHPOINT	19/94	-0.00005	0.756	0.00002	3.2	0.004	0.099	0.02	0.042	0.163	4.6	-0.00001	-0.00001	0.016	-0.001	0.888	2350
273658	MMI	387673.7	5393055	1850	5400	HIGHPOINT	19/94	0.0011	0.396	0.00011	1.9	0.039	0.083	0.997	0.019	0.138	3.6	-0.00001	0.00019	0.006	-0.001	11	2350
273659	MMI	387627.7	5393071	1800	5400	HIGHPOINT	19/94	0.004	0.159	0.00015	0.987	0.037	0.033	1.1	0.001	0.104	2.7	-0.00001	0.00012	0.002	-0.001	6.1	2350
273661	MMI	387736.7	5392792	2000	5200	HIGHPOINT	37/89	0.0035	0.405	0.00005	4.4	0.003	0.031	0.033	0.026	0.096	1.9	-0.00001	-0.00001	0.009	0.002	0.157	2350
273662	MMI	387779.8	5392769	2050	5200	HIGHPOINT	37/89	-0.00005	0.343	0.00002	2.7	0.018	0.055	0.883	-0.001	0.979	2.2	-0.00001	0.00003	0.006	-0.001	6	2350
273663	MMI	387823	5392746	2100	5200	HIGHPOINT	37/89	0.0011	0.41	0.00002	3.3	0.002	0.128	0.003	0.013	0.388	3	-0.00001	-0.00001	0.007	-0.001	0.065	2350
273664	MMI	387861.4	5392731	2150	5200	HIGHPOINT	37/89	0.0015	0.74	0.00007	5.4	0.017	0.231	0.073	0.036	0.06	2.1	0.00004	0.00019	0.007	-0.001	1.1	2350
273665	MMI	387899.8	5392717	2200	5200	HIGHPOINT	37/89	-0.00005	1	0.00006	5	0.004	0.374	-0.001	0.054	0.002	2.2	0.00092	0.00008	0.014	-0.001	0.169	2350
273666	MMI	387938.1	5392702	2250	5200	HIGHPOINT	37/89	-0.00005	0.447	-0.00001	2.2	-0.001	0.069	-0.001	0.034	-0.001	1.6	0.00011	0.00006	0.003	-0.001	-0.001	2350
273667	MMI	388114.2	5392427	2500	5000	HIGHPOINT	37/89	0.0005	0.336	0.0004	3.8	0.002	0.011	0.023	0.043	0.02	3.3	0.00281	-0.00001	0.015	-0.001	0.172	2350
273668	MMI	388068.3	5392444	2450	5000	HIGHPOINT	37/89	-0.00005	0.158	0.00004	3.8	0.012	0.029	0.73	-0.001	0.232	0.508	-0.00001	-0.00001	0.005	-0.001	2.9	2350
273669	MMI	388022.3	5392461	2400	5000	HIGHPOINT	37/89	0.0014	1	0.00012	4.2	0.002	0.04	0.103	0.251	-0.001	3	0.00282	0.00022	0.028	-0.001	0.398	2350
273670	MMI	387976.4	5392477	2350	5000	HIGHPOINT	37/89	-0.00005	0.755	0.00024	5.5	0.001	0.136	0.004	0.057	-0.001	3.7	0.00145	0.00004	0.02	-0.001	0.071	2350
273671	MMI	387930.5	5392494	2300	5000	HIGHPOINT	37/89	0.0011	1.4	0.0001	6.4	0.001	0.376	0.043	0.142	0.047	4	0.00487	0.00031	0.083	-0.001	0.135	2350
273672	MMI	387884.5	5392512	2250	5000	HIGHPOINT	37/89	0.0004	1.4	0.00005	11.5	0.003	0.428	-0.001	0.11	0.073	6.9	0.00266	0.00036	0.047	-0.001	0.094	2350
273673	MMI	387838.5	5392529	2200	5000	HIGHPOINT	37/89	-0.00005	3.8	0.00042	5.7	-0.001	0.275	0.263	0.074	0.264	4.9	0.00121	0.00019	0.026	-0.001	-0.001	2350
273674	MMI	387792.5	5392547	2150	5000	HIGHPOINT	37/89	0.0011	0.221	0.00011	1.5	0.014	0.016	0.505	0.013	0.285	1.8	0.00053	0.00006	-0.001	-0.001	4	2350
273675	MMI	387746.5	5392565	2100	5000	HIGHPOINT	19/94	-0.00005	0.075	0.00044	0.975	0.008	0.01	0.191	0.009	0.151	1.3	0.00037	0.00005	-0.001	-0.001	0.699	2350
273676	MMI	388638.3	5395910	1600	8450	HIGHPOINT	19/94	0.00055	0.137	-0.00001	2.8	0.008	5.1	0.217	0.024	2	0.882	0.00488	0.00044	0.006	-0.001	0.175	2350
273677	MMI	388626.2	5395861	1600	8400	HIGHPOINT	19/94	0.0007	0.126	-0.00001	2.5	0.014	4.3	0.403	0.016	1.6	0.888	0.00373	0.00015	-0.001	-0.001	1.1	2350
273678	MMI	388614.1	5395811	1600	8350	HIGHPOINT	19/94	-0.00005	0.23	-0.00001	3.2	0.001	3.7	0.003	0.016	1.1	1.7	0.00504	0.00052	0.002	-0.001	0.089	2350
273679	MMI	388602	5395762	1600	8300	HIGHPOINT	19/94	-0.00005	0.142	-0.00001	2.8	-0.001	0.708	0.009	0.012	0.869	1.6	0.00246	0.00019	-0.001	-0.001	0.189	2350
273681	MMI	388589.9	5395712	1600	8250	HIGHPOINT	19/94	0.0039	0.218	0.00084	3.2	0.003	0.191	0.049	0.017	0.641	2.1	0.00362	0.00043	-0.001	-0.001	0.47	2350
273682	MMI	388577.8	5395663	1600	8200	HIGHPOINT	19/94	0.0015	0.096	0.00037	2.4	0.007	0.055	0.186	0.011	0.298	0.641	0.00074	0.00024	-0.001	-0.001	2.9	2350
273683	MMI	388550.1	5395615	1600	8150	HIGHPOINT	19/94	0.0024	0.132	-0.00001	9.1	0.005	0.785	0.083	0.026	1.2	0.967	0.00418	0.0004	-0.001	-0.001	0.359	2350
273684	MMI	388522.4	5395567	1600	8100	HIGHPOINT	19/94	0.00065	0.322	-0.00001	5.1	-0.001	0.138	0.051	0.014	0.407	1.2	0.00073	0.00038	-0.001	-0.001	0.155	2350
273685	MMI	388494.8	5395519	1600	8050	HIGHPOINT	19/94	0.0006	0.026	-0.00001	1.4	0.013	0.017	0.396	0.005	0.217	1.6	0.00056	0.00045	-0.001	-0.001	1.5	2350
273686	MMI	388467.1	5395471	1600	8000	HIGHPOINT	19/94	0.0016	0.145	-0.00001	1.3	0.001	0.025	0.049	0.012	0.18	0.677	0.00161	0.00026	-0.001	-0.001	0.446	2350
273687	MMI	388450.5	5395432	1600	7950	HIGHPOINT	19/94	0.00065	0.341	-0.00001	10	-0.001	1.5	0.06	0.019	0.456	1.3	0.00562	0.00026	-0.001	-0.001	-0.001	2350
273688	MMI	388433.9	5395393	1600	7900	HIGHPOINT	19/94	0.0006	0.058	-0.00001	3.6	0.012	0.151	0.132	0.004	0.311	0.632	0.0014	0.0002	-0.001	-0.001	0.782	2350
273689	MMI	388417.4	5395354	1600	7850	HIGHPOINT	19/94	0.002	0.582	-0.00001	4.7	0.008	0.158	0.133	0.027	0.281	1.6	0.00648	0.00068	-0.001	-0.001	0.439	2350
273690	MMI	388400.8	5395315	1600	7800	HIGHPOINT	19/94	0.0046	0.355	-0.00001	7.3	0.016	5.4	0.395	0.017	0.855	2.3	0.00173	0.00028	-0.001	0.002	1	2350
273691	MMI	388382.8	5395270	1600	7750	HIGHPOINT	19/94	0.0008	0.558	-0.00001	3.9	0.002	0.638	0.061	0.023	0.453	2.5	0.00436	0.00054	-0.001	-0.001	0.061	2350
273692	MMI	388364.8	5395224	1600	7700	HIGHPOINT	19/94	0.0039	0.313	0.00018	2.4	0.019	0.059	1	0.013	0.6	1.9	0.00276	0.00088	-0.001	-0.001	5.2	2350
273693	MMI	388346.8	5395179	1600	7650	HIGHPOINT	19/94	-0.00005	0.48	-0.00001	3.6	0.016	0.029	0.097	0.016	0.391	4.7	0.00165	0.00059	-0.001	-0.001	1.4	2350
273694	MMI	388328.8	5395133	1600	7600	HIGHPOINT	19/94	-0.00005	0.467	-0.00001	3.1	0.002	0.05	0.031	0.016	0.47	1.4	0.00182	0.00032	-0.001	-0.001	0.021	2350
273695	MMI	388309.8	5395090	1600	7550	HIGHPOINT	19/94	-0.00005	0.539	0.00009	5.2	0.001	0.407	0.547	0.026	0.325	2.5	0.00504	0.00025	-0.001	-0.001	0.024	2350
273696	MMI	388290.8	5395047	1600	7500	HIGHPOINT	19/94	-0.00005	0.33	-0.00001	6.1	0.006	0.061	0.046	0.027	0.36	1.4	0.0018	-0.00001	-0.001	-0.001	0.306	2350
273697	MMI	388271.9	5395005	1600	7450	HIGHPOINT	19/94	-0.00005	0.452	-0.00001	6.6	-0.001	0.887	0.034	0.022	0.64	1.7	0.00851	0.00078	-0.001	-0.001	0.059	2350
273698	MMI	388252.9	5394962	1600	7400	HIGHPOINT	19/94	-0.00005	0.155	-0.00001	7.4	-0.001	0.817	0.347	0.02	1.7	0.896	0.00467	0.00077	-0.001	-0.001	-0.001	2350
273699	MMI	388232.1	5394923	1600	7350	HIGHPOINT	19/94	0.0023	0.085	-0.00001	16	0.021	3	0.747	0.022	3.2	0.546	0.00751	0.00046	0.005	0.002	1.6	2350
273700	MMI	388211.3	5394884	1600	7300	HIGHPOINT	19/94	0.0011	0.124	0.00026	7.4	0.006	2.3	0.054	0.014	3	0.801	0.006	-0.00001	0.007	-0.001	0.359	2350
273701	MMI	388013.4	5392180	2400	4600	HIGHPOINT	37/89	0.0052	0.256	0.00037	1.1	0.027	0.036	0.415	0.036	0.296	6.7	0.00199	0.00001	0.009	-0.001	2.3	2350
273702	MMI	387967.1	5392195	2350	4600	HIGHPOINT	37/89	0.00095	1.6	0.00039	0.729	-0.001	0.01	0.051	0.028	0.106	3.6	0.00381	0.00036	0.037	-0.001	-0.001	2350
273703	MMI	387920.8	5392210	2300	4600	HIGHPOINT	37/89	0.0005	2.1	0.00028	2	-0.001	0.028	0.04	0.017	0.171	4.2	0.00302	0.00062	0.029	-0.001	-0.001	2350
273704	MMI	387874.6	5392225	2250	4600	HIGHPOINT	37/89	0.0007	1.4	0.00241	1.4	-0.001	0.018	0.083	0.087	0.148	3.5	0.00893	0.00039	0.109	-0.001	-0.001	2350
273705	MMI	387828.3	5392240	2200	4600	HIGHPOINT	37/89	0.0012	1.2	0.00027	2.3	0.001	0.128	0.081	0.031	0.213	4.5	0.01	0.00094	0.026	-0.001	0.192	2350
273706	MMI	387781.4	5392256	2150	4600	HIGHPOINT	37/89	-0.00005	1.3	0.00016	2.3	-0.001	0.021	0.024	0.025	0.218	2.8	0.00418	0.00061	0.026	-0.001	-0.001	2350
273707	MMI	387734.2	5392271	2100	4600	HIGHPOINT	37/89	-0.00005	3.1	0.00022	1.4	-0.001	0.011	0.066	0.021	0.154	5.5	0.01	0.00101	0.065	-0.001	-0.001	2350
273708	MMI	387687	5392287	2050	4600	HIGHPOINT	37/89	0.0005	1.5	0.00042	2.3	-0.001	0.043	0.069	0.026	0.365	2.8	0.00222	0.00028	0.017	-0.001	0.033	2350
273709	MMI	387652.7	5392481	2000	4800	HIGHPOINT	37/89	-0.00005	0.552	0.0003	1.5	-0.001	0.025	0.11	0.033	0.122	2.7	0.00329	0.00036	0.014	-0.001	-0.001	2350
273710	MMI	387701.2	5392471	2050	4800	HIGHPOINT	37/89	0.00005	0.868	0.00083	1.2	0.005	0.015	0.052	0.065	0.253	1.5	0.00257	0.00053	0.042	-0.001	0.159	2350

163058

Appendix 4
Highpoint MMI Sampling
Results

Sample No	Sample Type	UTM East	UTM North	Local East	Local North	Prospect	Tenement No	Ag ppm	As ppm	Au ppm	Ba ppm	Cd ppm	Co ppm	Cu ppm	Mo ppm	Ni ppm	Pb ppm	Pd ppm	Pt ppm	Sb ppm	Tl ppm	Zn ppm	SDS
273711	MMI	387749.6	5392461	2100	4800	HIGHPOINT	37/89	0.00085	0.075	0.00042	1	0.004	0.01	0.231	0.003	0.387	2.1	0.00107	0.00021	0.003	-0.001	0.619	2350
273712	MMI	387798.1	5392452	2150	4800	HIGHPOINT	37/89	0.00005	2	0.00007	1.5	0.001	0.013	0.023	0.021	0.132	3.9	0.0024	0.00035	0.016	-0.001	-0.001	2350
273713	MMI	387846.5	5392442	2200	4800	HIGHPOINT	37/89	-0.00005	4.3	0.00025	7.6	0.001	0.063	0.023	0.063	0.354	7.4	0.00166	0.00045	0.027	-0.001	0.158	2350
273714	MMI	387894.7	5392428	2250	4800	HIGHPOINT	37/89	-0.00005	0.971	0.00008	6.5	-0.001	0.255	0.153	0.069	0.12	7.1	0.0033	0.00055	0.055	-0.001	-0.001	2350
273715	MMI	387942.8	5392414	2300	4800	HIGHPOINT	37/89	-0.00005	1.6	-0.00001	3.9	-0.001	0.104	0.03	0.058	0.015	4.9	0.0062	0.00089	0.042	-0.001	0.105	2350
273716	MMI	387991	5392400	2350	4800	HIGHPOINT	37/89	0.00055	0.375	0.00057	13.5	0.007	0.04	0.017	0.089	0.093	4.2	0.00205	0.00068	0.01	-0.001	-0.001	2350
273717	MMI	388039.2	5392386	2400	4800	HIGHPOINT	37/89	-0.00005	0.439	0.00014	6.3	-0.001	0.01	0.014	0.065	0.042	2.8	0.00274	0.00035	0.013	-0.001	-0.001	2350
273718	MMI	388094.5	5392373	2450	4800	HIGHPOINT	37/89	0.0003	3.1	0.00086	7.3	0.001	0.019	0.043	0.321	0.063	7	0.00482	0.00045	0.059	-0.001	-0.001	2350
273719	MMI	388149.8	5392361	2500	4800	HIGHPOINT	37/89	0.008	0.095	0.0003	3.3	0.002	0.005	0.13	0.021	0.059	1.6	0.00197	0.00104	0.003	-0.001	0.231	2350
273720	MMI	388205.2	5392349	2550	4800	HIGHPOINT	37/89	0.0059	0.116	0.00082	3	0.009	0.01	0.19	0.018	0.107	2.6	0.00195	0.00025	0.002	-0.001	0.5	2350
273721	MMI	388190.5	5394845	1600	7250	HIGHPOINT	19/94	-0.00005	0.19	0.00007	6.1	-0.001	0.184	0.038	0.022	0.624	1.5	0.00439	0.00065	0.007	-0.001	-0.001	2350
273722	MMI	388176.7	5394796	1600	7200	HIGHPOINT	19/94	0.002	0.183	-0.00001	81	0.028	3.7	0.103	0.109	5.5	0.19	0.00762	0.00103	0.003	-0.001	1.1	2350
273723	MMI	388153.6	5394740	1600	7150	HIGHPOINT	19/94	0.0014	0.295	-0.00001	12.5	0.022	5.2	0.097	0.09	7.1	0.675	0.013	0.00133	0.012	-0.001	3.1	2350
273724	MMI	388130.4	5394683	1600	7100	HIGHPOINT	19/94	-0.00005	0.102	0.0002	21	0.013	4.3	0.012	0.019	4.8	0.612	0.00497	0.00047	0.002	-0.001	0.268	2350
273725	MMI	388107.3	5394626	1600	7050	HIGHPOINT	19/94	0.0031	0.194	0.00052	18.5	0.009	7.2	0.981	0.037	10.5	0.774	0.015	0.00132	0.032	-0.001	2	2350
273726	MMI	388084.1	5394570	1600	7000	HIGHPOINT	19/94	0.00015	0.179	0.00066	6.1	-0.001	0.092	0.031	0.018	0.23	2.7	0.00414	0.00048	0.007	-0.001	-0.001	2350
273727	MMI	388085.3	5394518	1600	6950	HIGHPOINT	19/94	-0.00005	0.411	-0.00001	5.4	0.003	0.122	0.004	0.022	0.746	1.9	0.00402	0.00049	0.011	-0.001	0.167	2350
273728	MMI	388086.6	5394466	1700	6900	HIGHPOINT	19/94	0.00065	0.173	0.00043	5.1	-0.001	0.142	0.358	0.015	0.715	2.6	0.00393	0.00131	0.007	-0.001	0.117	2350
273729	MMI	388087.8	5394414	1700	6850	HIGHPOINT	19/94	-0.00005	0.23	0.00008	7	-0.001	0.146	0.011	0.019	0.646	2.7	0.00519	0.00116	0.007	-0.001	0.142	2350
273730	MMI	388089	5394362	1700	6800	HIGHPOINT	19/94	0.0034	1.1	-0.00001	19.5	0.025	10	2.5	0.03	0.507	11.5	0.00055	0.00012	0.028	0.003	3	2350
273731	MMI	388070.2	5394314	1700	6750	HIGHPOINT	19/94	0.0074	0.107	-0.00001	4.5	0.012	0.069	0.268	0.009	0.16	1.1	0.00284	0.00009	0.005	0.002	2.4	2350
273732	MMI	388051.3	5394266	1700	6700	HIGHPOINT	19/94	0.0006	0.041	-0.00001	1.9	0.014	0.021	0.577	0.001	0.178	0.69	0.00041	0.00025	-0.001	-0.001	2.2	2350
273733	MMI	388032.5	5394217	1700	6650	HIGHPOINT	19/94	0.0031	0.113	0.00005	3.2	0.011	0.028	0.344	0.013	0.172	0.656	0.00123	0.00047	0.003	-0.001	0.462	2350
273734	MMI	388013.7	5394169	1700	6600	HIGHPOINT	19/94	0.00025	1.2	-0.00001	2.1	-0.001	0.04	0.058	0.045	0.115	1.5	0.0009	0.0004	0.032	-0.001	-0.001	2350
273735	MMI	387995.1	5394123	1700	6550	HIGHPOINT	19/94	0.0005	0.177	-0.00001	1.9	0.022	0.022	0.53	0.044	0.231	1.4	0.00014	-0.00001	0.013	-0.001	2.9	2350
273736	MMI	387976.4	5394077	1700	6500	HIGHPOINT	19/94	0.0006	0.075	-0.00001	2	0.01	0.022	0.676	-0.001	0.611	0.617	-0.00001	0.00012	-0.001	-0.001	3.2	2350
273737	MMI	387957.8	5394031	1700	6450	HIGHPOINT	19/94	0.0021	0.223	-0.00001	4.8	0.007	0.037	0.192	0.035	0.168	1.2	0.00684	0.00062	0.01	-0.001	0.495	2350
273738	MMI	387939.1	5393986	1700	6400	HIGHPOINT	19/94	0.0041	0.212	0.00013	5.4	0.02	0.054	0.589	0.06	0.149	2.1	0.00461	0.00062	0.011	0.001	3.3	2350
273739	MMI	387918.3	5393931	1700	6350	HIGHPOINT	19/94	0.0018	0.39	0.00008	2.3	0.003	0.026	0.038	0.054	0.106	3.2	0.00477	-0.00001	0.018	-0.001	0.069	2350
273741	MMI	387897.6	5393876	1700	6300	HIGHPOINT	19/94	0.0008	0.069	0.0004	2.3	0.012	0.038	0.219	0.037	0.112	1.5	0.00048	0.00065	0.002	0.002	1.8	2350
273742	MMI	387876.8	5393821	1700	6250	HIGHPOINT	19/94	0.0027	0.075	0.00035	2.8	0.006	0.009	0.402	0.036	0.113	1.4	0.00038	-0.00001	0.002	0.001	3.5	2350
273743	MMI	387856	5393767	1700	6200	HIGHPOINT	19/94	0.0075	0.205	0.00051	2.3	0.002	0.012	0.193	0.038	0.103	2.7	0.00009	0.00122	0.008	-0.001	0.692	2350
273744	MMI	387840.7	5393738	1700	6150	HIGHPOINT	19/94	0.0047	0.073	0.00046	2.3	0.015	0.025	0.465	0.046	0.114	1.7	0.00029	0.00009	0.002	-0.001	2.5	2350
273745	MMI	387825.4	5393710	1700	6100	HIGHPOINT	19/94	0.0053	1.2	0.00019	14.5	0.002	0.57	0.051	0.143	0.248	6.4	0.00197	0.00057	0.017	-0.001	0.608	2350
273746	MMI	387810.1	5393681	1700	6050	HIGHPOINT	19/94	0.0012	0.15	-0.00001	1.2	0.017	0.032	0.13	0.034	0.146	2	0.00075	0.00021	0.003	-0.001	10.5	2350
273747	MMI	387794.8	5393653	1700	6000	HIGHPOINT	19/94	0.0024	0.057	-0.00001	1.9	0.023	0.015	0.233	0.02	0.211	1.6	0.00069	0.00045	0.002	-0.001	7.7	2350
273748	MMI	387763.3	5393642	1700	5975	HIGHPOINT	19/94	0.0076	0.029	0.00037	1.2	0.024	0.015	0.743	0.002	0.094	2.1	0.00071	0.00059	-0.001	-0.001	7	2350
273749	MMI	387754.6	5393620	1700	5950	HIGHPOINT	19/94	0.0037	0.062	0.00042	-0.001	0.044	0.087	1.9	-0.001	0.766	0.754	0.00026	0.0012	0.001	0.001	31.5	2350
273750	MMI	387737.3	5393577	1700	5900	HIGHPOINT	19/94	0.0059	0.181	-0.00001	3	0.001	0.018	0.008	0.055	0.106	2	0.00099	0.00092	0.012	-0.001	-0.001	2350
273751	MMI	387720	5393534	1700	5850	HIGHPOINT	19/94	0.0021	0.419	-0.00001	2.6	0.025	0.051	0.857	0.022	0.36	1.6	0.00068	-0.00001	0.006	0.001	4	2350
273752	MMI	387702.7	5393490	1700	5800	HIGHPOINT	19/94	0.0044	0.406	0.00042	2.4	0.021	0.057	0.414	0.034	0.267	2.1	0.00146	0.0012	0.005	-0.001	1.9	2350
273753	MMI	387673.1	5393441	1700	5750	HIGHPOINT	19/94	0.0024	1	0.00034	2.3	0.003	0.137	0.685	0.047	0.142	3.2	0.00845	0.0013	0.029	-0.001	0.04	2350
273754	MMI	387643.4	5393392	1700	5700	HIGHPOINT	19/94	0.0014	0.536	-0.00001	9.1	0.004	0.074	0.042	0.045	0.32	3.6	0.00182	0.00087	0.01	-0.001	0.17	2350
273755	MMI	387613.8	5393342	1700	5650	HIGHPOINT	19/94	0.0009	1.4	0.00009	7.2	-0.001	0.046	0.024	0.035	0.18	4.8	0.00183	0.00054	0.017	0.001	0.072	2350
273756	MMI	387584.2	5393293	1700	5600	HIGHPOINT	19/94	-0.00005	1.9	0.00014	8.6	0.002	0.138	0.158	0.048	0.168	4.8	0.00068	0.00045	0.015	-0.001	0.342	2350
273757	MMI	387854	5393168	2050	5500	HIGHPOINT	19/94	-0.00005	0.106	-0.00001	3.1	0.009	0.033	1.3	-0.001	0.359	0.968	0.00132	0.00071	0.002	-0.001	2.7	2350
273758	MMI	387864.4	5393116	2050	5450	HIGHPOINT	19/94	-0.00005	0.058	-0.00001	0.059	0.029	0.014	1.6	-0.001	0.32	0.556	0.00109	0.00033	0.002	-0.001	15	2350
273759	MMI	387874.8	5393064	2050	5400	HIGHPOINT	19/94	0.0014	0.296	0.00047	2	0.009	0.02	0.796	0.022	0.421	0.772	0.00114	0.0008	0.005	-0.001	2.4	2350
273760	MMI	387880.1	5393023	2050	5350	HIGHPOINT	19/94	0.0004	0.808	-0.00001	9.8	0.006	0.05	0.052	0.042	0.269	3.3	0.00184	0.00064	0.036	-0.001	0.626	2350
273761	MMI	387885.4	5392982	2050	5300	HIGHPOINT	37/89	0.0044	0.771	0.00016	7.4	0.02	0.036	0.1	0.176	0.155	3.6	0.0018	0.00047	0.02	-0.001	2	2350
273762	MMI	387896.5	5392935	2050	5250	HIGHPOINT	37/89	0.0064	0.122	0.00046	3.4	0.01	0.018	0.248	0.045	0.176	1.1	0.00374	0.00137	0.009	-0.001	0.784	2350
273763	MMI	387907.7	5392887	2050	5200	HIGHPOINT	37/89	0.0001	1.4	0.00006	11	0.003	0.09	0.027	0.095	0.068	4.3	0.00151	0.00018	0.021	-0.001	0.461	2350
273764	MMI	387918.8	5392839	2050	5150	HIGHPOINT	37/89	0.0003	1.4	0.00055	7.9	0.002	0.07	0.023	0.092	0.039	3.9	0.00211	0.00054	0.022	-0.001	-0.001	2350

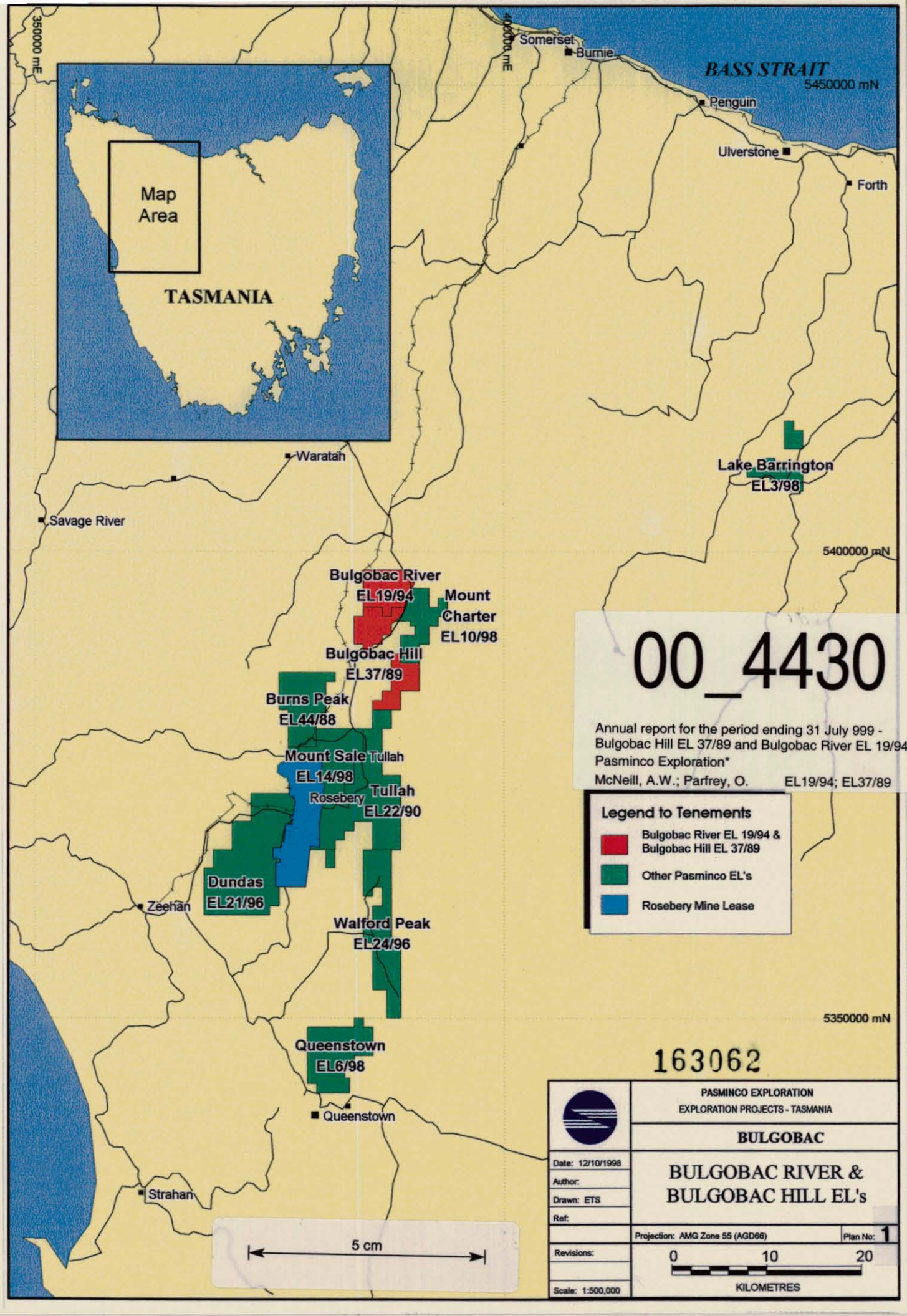
Appendix 4
Highpoint MMI Sampling
Results

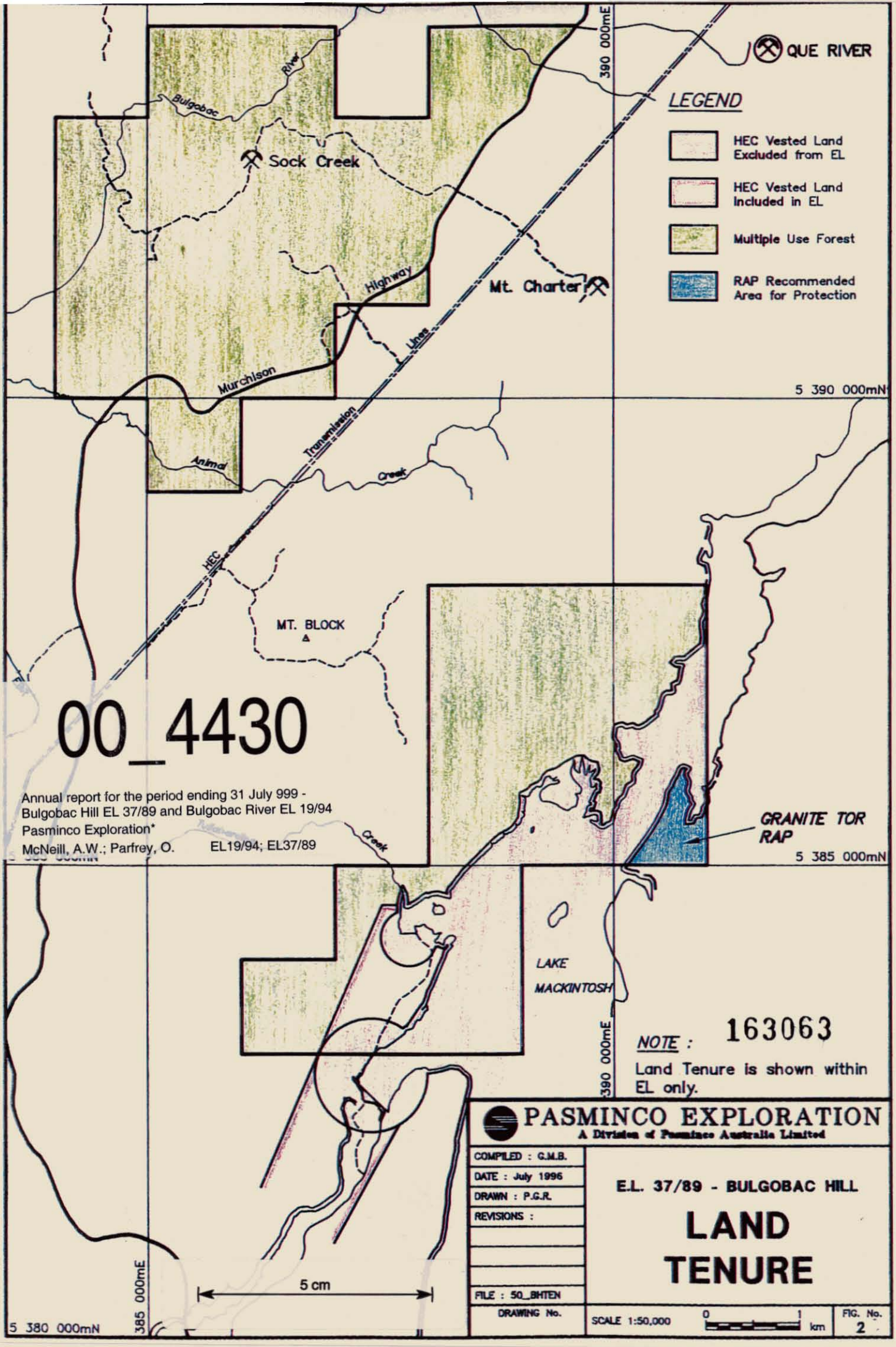
Sample No	Sample Type	UTM East	UTM North	Local East	Local North	Prospect	Tenement No	Ag ppm	As ppm	Au ppm	Ba ppm	Cd ppm	Co ppm	Cu ppm	Mo ppm	Ni ppm	Pb ppm	Pd ppm	Pt ppm	Sb ppm	Tl ppm	Zn ppm	SDS
273765	MMI	387929.9	5392792	2050	5100	HIGHPOINT	37/89	0.00025	1.6	0.00048	7.7	0.002	0.034	0.03	0.072	0.15	3.8	0.00112	0.0008	0.013	-0.001	0.462	2350
273766	MMI	387941.1	5392744	2050	5050	HIGHPOINT	37/89	0.0004	0.068	0.0004	1.4	0.005	0.007	0.104	0.013	0.08	0.567	0.00096	0.00051	0.003	-0.001	2.7	2350
273767	MMI	387952.2	5392697	2050	5000	HIGHPOINT	37/89	0.00045	2	0.00035	7.6	0.001	0.078	0.032	0.055	0.06	2.7	0.00156	0.00082	0.012	-0.001	-0.001	2350
273768	MMI	387956.8	5392693	2500	5200	HIGHPOINT	37/89	0.0029	0.126	-0.00001	2.8	0.021	0.029	0.091	0.023	0.139	1.8	0.00327	0.00029	0.005	-0.001	1.5	2350
273769	MMI	387987.5	5392651	2500	5150	HIGHPOINT	37/89	0.0094	0.169	-0.00001	3.9	0.009	0.013	0.089	0.064	0.074	1.6	0.00717	0.0017	0.007	0.001	1	2350
273770	MMI	388018.2	5392610	2500	5100	HIGHPOINT	37/89	0.0059	0.199	0.00002	5.6	0.008	0.011	0.14	0.059	0.126	2.1	0.00224	0.00116	0.008	-0.001	0.67	2350
273771	MMI	388048.9	5392568	2500	5050	HIGHPOINT	37/89	0.0015	0.08	-0.00001	4.3	0.031	0.017	0.798	0.022	0.164	1.7	0.00238	0.00037	0.004	-0.001	2.4	2350
273772	MMI	388076.2	5392527	2500	5000	HIGHPOINT	37/89	0.0037	0.143	-0.00001	4.6	0.031	0.018	1	0.029	0.154	3.6	0.00216	0.00085	0.012	-0.001	2.6	2350
273773	MMI	388103.4	5392487	2500	4950	HIGHPOINT	37/89	0.0011	0.587	0.00005	8.8	0.003	0.039	0.03	0.034	0.08	2.6	0.00338	0.00059	0.02	-0.001	0.116	2350
273774	MMI	388130.7	5392446	2500	4900	HIGHPOINT	37/89	-0.00005	0.286	0.00079	4.1	-0.001	0.017	-0.001	0.029	0.033	2.3	0.00655	0.00059	0.015	-0.001	-0.001	2350
273775	MMI	388157.9	5392405	2500	4850	HIGHPOINT	37/89	-0.00005	0.464	0.00046	8.8	0.002	0.039	0.023	0.03	0.114	3.3	0.00184	0.00084	0.011	-0.001	0.272	2350
273776	MMI	388185.2	5392364	2500	4800	HIGHPOINT	37/89	-0.00005	0.262	-0.00001	6.5	0.001	0.043	0.008	0.012	0.091	2.9	0.00374	0.00106	0.008	-0.001	-0.001	2350
274632	MMI	388507	5395686	1550	8200	HIGHPOINT	19/94	0.0027	0.081	-0.00001	2.6	0.012	0.105	0.742	0.012	0.839	0.662	0.00291	0.00005	-0.001	-0.001	6.4	2350
274633	MMI	388449.1	5395706	1500	8200	HIGHPOINT	19/94	0.0016	0.038	-0.00001	4	0.008	0.144	0.18	0.015	1.1	0.379	0.00494	-0.00001	-0.001	-0.001	0.891	2350
274634	MMI	388404.2	5395723	1450	8200	HIGHPOINT	19/94	0.0014	0.035	-0.00001	2.7	0.008	2.1	0.622	0.004	1.9	0.53	0.00511	0.00007	-0.001	-0.001	0.587	2350
274635	MMI	388359.2	5395740	1400	8200	HIGHPOINT	19/94	0.0009	0.106	-0.00001	6.8	0.011	2.3	0.194	0.01	2.5	0.881	0.00577	0.00034	-0.001	-0.001	0.964	2350
274636	MMI	388314.3	5395757	1350	8200	HIGHPOINT	19/94	0.0012	0.066	-0.00001	4.5	0.006	1.4	0.097	0.007	2.3	0.452	0.0081	0.00029	-0.001	-0.001	0.615	2350
274637	MMI	388269.3	5395774	1300	8200	HIGHPOINT	19/94	0.0032	0.153	-0.00001	1.9	0.018	2.9	3.4	0.008	3.6	0.844	0.0057	0.00013	-0.001	0.003	3.3	2350
274638	MMI	388224.3	5395790	1250	8200	HIGHPOINT	19/94	0.0024	0.122	-0.00001	2.7	0.011	4.4	0.863	0.008	2.7	0.88	0.00707	0.0003	-0.001	0.002	1.9	2350
274639	MMI	388179.4	5395807	1200	8200	HIGHPOINT	19/94	0.0016	0.038	-0.00001	7.2	0.013	3.1	0.357	0.007	2.6	0.397	0.00666	0.0002	-0.001	-0.001	1.3	2350
274640	MMI	388134.4	5395826	1150	8200	HIGHPOINT	19/94	0.00075	0.037	-0.00001	9.6	0.016	3.7	0.177	0.013	3.3	0.477	0.00476	0.00018	-0.001	-0.001	0.92	2350
274641	MMI	388089.5	5395845	1100	8200	HIGHPOINT	19/94	0.00045	0.106	-0.00001	2.9	0.017	2.3	0.376	0.007	3	0.862	0.00696	0.00018	-0.001	-0.001	0.991	2350
274642	MMI	388044.6	5395864	1050	8200	HIGHPOINT	19/94	0.0016	0.013	-0.00001	5.7	0.016	5	0.816	0.006	2.7	0.231	0.00414	0.0001	-0.001	0.002	2.1	2350
274643	MMI	387999.6	5395883	1000	8200	HIGHPOINT	19/94	0.00065	0.082	-0.00001	2.3	0.002	2.3	0.007	0.005	2.3	0.89	0.00749	0.00008	-0.001	-0.001	0.117	2350
274644	MMI	387953.8	5395900	950	8200	HIGHPOINT	19/94	0.00025	0.074	-0.00001	1.4	-0.001	0.166	-0.001	0.002	0.901	0.459	0.00575	0.00014	-0.001	-0.001	0.017	2350
274645	MMI	387908.1	5395916	900	8200	HIGHPOINT	19/94	0.0003	0.151	-0.00001	1.1	0.004	0.263	0.106	0.003	2.2	0.902	0.00633	0.00027	-0.001	-0.001	0.839	2350
274646	MMI	387862.7	5395732	950	8000	HIGHPOINT	19/94	-0.00005	0.062	-0.00001	2.8	0.005	2.1	0.357	0.006	1.7	0.597	0.00526	-0.00001	-0.001	-0.001	0.259	2350
274647	MMI	387927.8	5395713	1000	8000	HIGHPOINT	19/94	0.0003	0.043	-0.00001	6.1	0.01	2.3	0.526	0.006	2	0.443	0.00437	-0.00001	-0.001	-0.001	0.436	2350
274648	MMI	387973	5395694	1050	8000	HIGHPOINT	19/94	0.0014	0.063	-0.00001	2.3	0.011	2.7	0.332	0.006	2.2	0.457	0.00713	0.00033	-0.001	0.001	1.3	2350
274649	MMI	388018.2	5395675	1100	8000	HIGHPOINT	19/94	0.0002	0.061	-0.00001	2.3	0.006	1.1	0.013	0.004	1.5	0.757	0.00607	0.00018	-0.001	-0.001	0.344	2350
274650	MMI	388063.3	5395656	1150	8000	HIGHPOINT	19/94	0.0009	0.049	-0.00001	8.1	0.018	4.2	0.324	0.007	5	0.437	0.00396	-0.00001	-0.001	-0.001	1.7	2350
274651	MMI	388108.5	5395637	1200	8000	HIGHPOINT	19/94	0.0034	0.081	-0.00001	3.5	0.011	4	4.3	0.009	1.6	0.646	0.0063	0.00018	-0.001	0.005	1.7	2350
274652	MMI	388166.8	5395615	1250	8000	HIGHPOINT	19/94	0.0006	0.05	-0.00001	5.8	0.007	2.6	0.091	0.005	2	0.638	0.00502	0.00018	-0.001	0.001	0.355	2350
274653	MMI	388225	5395594	1300	8000	HIGHPOINT	19/94	0.0024	0.047	-0.00001	3.6	0.017	2.8	3.6	0.002	2.6	0.46	0.0061	0.00007	-0.001	0.002	2.6	2350
274654	MMI	388283.2	5395572	1350	8000	HIGHPOINT	19/94	0.0005	0.095	-0.00001	4.2	0.011	1.7	0.485	0.005	2.5	1.2	0.00428	-0.00001	-0.001	0.001	1.1	2350
274655	MMI	388341.4	5395550	1400	8000	HIGHPOINT	19/94	0.0025	0.062	-0.00001	5.7	0.022	3.4	2.7	0.007	2.3	0.603	0.00689	0.00002	-0.001	0.002	1.8	2350
274656	MMI	388365.7	5395538	1450	8000	HIGHPOINT	19/94	0.002	0.057	-0.00001	5.7	0.024	2.4	1.6	0.004	2.4	0.752	0.0059	0.00011	-0.001	0.002	2.7	2350
274657	MMI	388390	5395527	1500	8000	HIGHPOINT	19/94	0.0026	0.086	-0.00001	5.1	0.027	1.8	0.84	0.006	1.9	0.581	0.00462	0.00008	-0.001	0.002	2.8	2350
274658	MMI	388431.2	5395510	1550	8000	HIGHPOINT	19/94	0.00085	0.167	-0.00001	4.6	0.001	1	0.225	0.008	1	1.4	0.00497	0.00013	-0.001	-0.001	0.04	2350
274659	MMI	388355.4	5395334	1550	7800	HIGHPOINT	19/94	0.0049	0.345	-0.00001	3.9	0.011	0.531	0.527	0.023	0.338	1.8	0.00301	-0.00001	-0.001	-0.001	1.9	2350
274660	MMI	388310	5395353	1500	7800	HIGHPOINT	19/94	0.002	0.23	-0.00001	4.8	0.023	2.6	0.497	0.011	1.6	1.8	0.00209	0.00006	0.01	0.001	2	2350
274661	MMI	388264.6	5395372	1450	7800	HIGHPOINT	19/94	0.0028	0.083	-0.00001	8.8	0.02	4.3	2.4	0.003	3.6	0.509	0.0031	-0.00001	0.004	0.005	3.5	2350
274662	MMI	388219.2	5395391	1400	7800	HIGHPOINT	19/94	-0.00005	0.187	-0.00001	5	0.012	2.7	0.038	0.018	4	2.2	0.00071	-0.00001	0.01	0.002	0.349	2350
274663	MMI	388173.8	5395410	1350	7800	HIGHPOINT	19/94	-0.00005	0.069	-0.00001	3.9	0.006	2.4	0.322	0.002	1.4	1.1	0.00119	-0.00001	0.004	-0.001	0.631	2350
274664	MMI	388128.4	5395429	1300	7800	HIGHPOINT	19/94	0.0009	0.066	-0.00001	4.1	0.013	2.9	2.1	0.002	2.9	0.604	0.00364	-0.00001	0.004	0.002	2.2	2350
274665	MMI	388083	5395448	1250	7800	HIGHPOINT	19/94	0.0007	0.086	-0.00001	2.1	0.011	1.5	3	-0.001	1.6	0.771	0.00142	-0.00001	0.003	0.001	2.4	2350
274666	MMI	388037.7	5395467	1200	7800	HIGHPOINT	19/94	0.0007	0.114	-0.00001	2.2	0.015	2.2	0.612	0.012	3.3	0.637	0.00233	-0.00001	0.004	-0.001	0.953	2350
274667	MMI	387992.3	5395486	1150	7800	HIGHPOINT	19/94	-0.00005	0.097	-0.00001	2.9	0.005	2.5	0.55	-0.001	2.6	1.2	0.00085	-0.00001	0.005	-0.001	0.736	2350
274668	MMI	387946.9	5395504	1100	7800	HIGHPOINT	19/94	0.0024	0.075	-0.00001	22	0.032	2.7	0.693	0.026	13	0.375	0.00244	-0.00001	0.001	-0.001	7.5	2350
274669	MMI	387901.5	5395523	1050	7800	HIGHPOINT	19/94	0.0026	0.111	-0.00001	2.1	0.013	5.6	3.9	0.002	1.8	1.4	0.00271	0.00009	0.005	0.003	2.3	2350
274670	MMI	387856.1	5395542	1000	7800	HIGHPOINT	19/94	0.0019	0.039	-0.00001	1.5	0.016	4.4	1.7	0.003	2.1	0.486	0.00375	-0.00001	0.002	0.003	2.1	2350
274671	MMI	387822.5	5395346	1050	7600	HIGHPOINT	19/94	-0.00005	0.144	-0.00001	24	0.003	1.6	0.237	0.025	2.9	0.373	0.00611	-0.00001	0.004	-0.001	1.3	2350
274672	MMI	387868.5	5395327	1100	7600	HIGHPOINT	19/94	-0.00005	0.073	-0.00001	4.3	0.011	3.8	0.21	0.001	1.8	0.764	0.00247	-0.00001	0.003	-0.001	1.3	2350

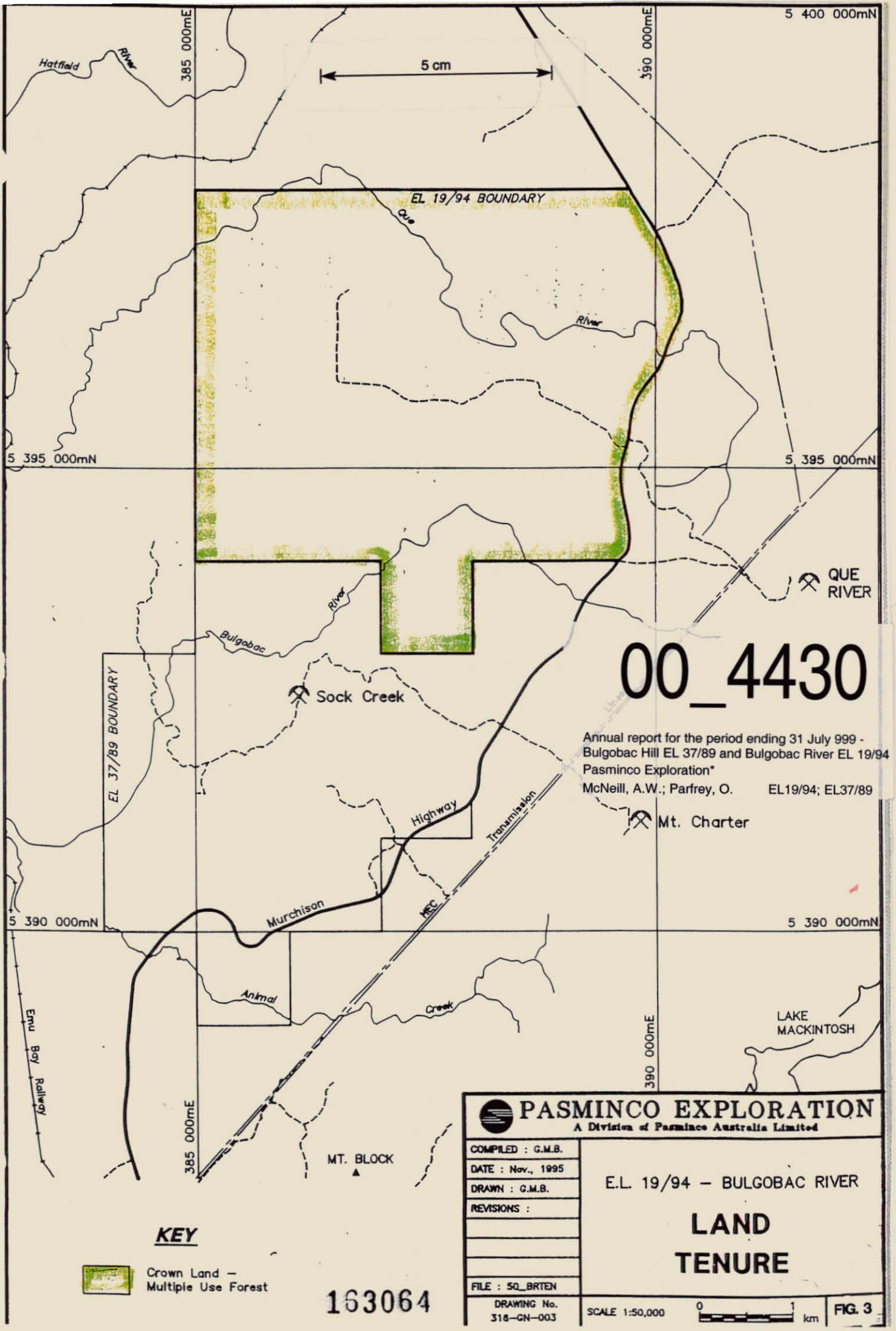
Appendix 4
Highpoint MMI Sampling
Results

Sample No	Sample Type	UTM East	UTM North	Local East	Local North	Prospect	Tenement No	Ag ppm	As ppm	Au ppm	Ba ppm	Cd ppm	Co ppm	Cu ppm	Mo ppm	Ni ppm	Pb ppm	Pd ppm	Pt ppm	Sb ppm	Tl ppm	Zn ppm	SDS
274673	MMI	387914.5	5395307	1150	7600	HIGHPOINT	19/94	0.00045	0.054	-0.00001	3.4	0.007	2.6	0.543	-0.001	2.5	0.801	0.00111	-0.00001	0.002	0.001	1.7	2350
274674	MMI	387960.6	5395288	1200	7600	HIGHPOINT	19/94	0.0004	0.09	-0.00001	3	0.008	2.6	0.594	0.004	1.9	0.889	0.00258	-0.00001	0.003	0.001	1.5	2350
274675	MMI	388006.6	5395268	1250	7600	HIGHPOINT	19/94	0.0022	0.017	-0.00001	6.6	0.018	2.4	1.6	0.003	1.8	0.315	0.00361	-0.00001	-0.001	0.003	2.1	2350
274676	MMI	388052.6	5395249	1300	7600	HIGHPOINT	19/94	0.0023	0.035	-0.00001	8.4	0.026	2.7	2.9	-0.001	2.9	0.295	0.00226	-0.00001	-0.001	0.003	3.5	2350
274677	MMI	388098.6	5395230	1350	7600	HIGHPOINT	19/94	-0.00005	0.056	-0.00001	14	0.024	4.9	0.191	0.008	4.1	0.23	0.00079	-0.00001	-0.001	-0.001	1.8	2350
274678	MMI	388144.7	5395210	1400	7600	HIGHPOINT	19/94	0.0052	0.141	-0.00001	15	0.026	4.9	2.3	0.01	6.7	0.686	0.00112	-0.00001	0.004	0.002	6.2	2350
274679	MMI	388190.7	5395191	1450	7600	HIGHPOINT	19/94	0.0019	0.117	-0.00001	8	0.01	3.4	0.768	0.01	3.1	1.1	0.00206	-0.00001	0.005	0.001	0.548	2350
274680	MMI	388236.8	5395172	1500	7600	HIGHPOINT	19/94	-0.00005	0.421	-0.00001	8.9	-0.001	0.7	0.004	0.02	0.873	1.7	-0.00001	-0.00001	0.01	-0.001	-0.001	2350
274681	MMI	388282.8	5395152	1550	7600	HIGHPOINT	19/94	-0.00005	0.326	-0.00001	7.7	0.002	0.502	0.007	0.014	0.625	2.3	0.00045	-0.00001	0.009	-0.001	0.042	2350
274682	MMI	388208.4	5394980	1550	7400	HIGHPOINT	19/94	0.0048	0.293	-0.00001	18	0.022	1.7	0.286	0.026	3	1.2	0.0028	-0.00001	0.005	0.001	2.2	2350
274683	MMI	388163.8	5394998	1500	7400	HIGHPOINT	19/94	-0.00005	0.27	-0.00001	11	0.001	0.808	0.035	0.017	1.7	1.8	0.00333	-0.00001	0.006	-0.001	0.041	2350
274684	MMI	388119.3	5395016	1450	7400	HIGHPOINT	19/94	-0.00005	0.219	-0.00001	2	-0.001	0.032	0.028	0.017	0.379	1.5	0.00014	-0.00001	0.004	-0.001	-0.001	2350
274685	MMI	388074.7	5395035	1400	7400	HIGHPOINT	19/94	0.005	0.456	-0.00001	4.3	0.019	0.281	0.231	0.041	1.8	2.5	-0.00001	-0.00001	0.007	-0.001	1.2	2350
274686	MMI	388030.2	5395053	1350	7400	HIGHPOINT	19/94	0.0048	0.097	-0.00001	8.6	0.037	1	0.415	0.02	2.8	0.711	0.00207	0.00004	0.002	-0.001	2.6	2350
274687	MMI	387985.6	5395071	1300	7400	HIGHPOINT	19/94	-0.00005	0.146	-0.00001	7.8	-0.001	1.9	0.093	0.008	2.3	0.868	0.0009	-0.00001	0.003	-0.001	0.01	2350
274688	MMI	387941.1	5395089	1250	7400	HIGHPOINT	19/94	-0.00005	0.089	-0.00001	5.9	-0.001	3.7	0.022	0.007	2.7	1.5	0.00127	0.00008	0.007	-0.001	0.109	2350
274689	MMI	387896.6	5395107	1200	7400	HIGHPOINT	19/94	-0.00005	0.076	-0.00001	5.4	-0.001	2.8	0.011	0.003	1.8	1.1	0.00153	0.00046	0.003	-0.001	0.113	2350
274690	MMI	387852	5395125	1150	7400	HIGHPOINT	19/94	0.0027	0.135	-0.00001	14.5	0.016	6.2	1.8	-0.001	4.7	1.4	0.00121	0.00025	0.008	0.003	4.9	2350
274691	MMI	387807.5	5395144	1100	7400	HIGHPOINT	19/94	-0.00005	0.122	-0.00001	7.6	0.002	1.4	0.027	-0.001	1.6	1.4	0.00309	0.00013	0.006	-0.001	0.133	2350
274692	MMI	387818.1	5394945	1200	7200	HIGHPOINT	19/94	-0.00005	0.348	-0.00001	3.7	-0.001	0.149	0.037	0.013	0.367	1.9	-0.00001	0.00003	0.012	-0.001	0.042	2350
274693	MMI	387862.9	5394926	1250	7200	HIGHPOINT	19/94	-0.00005	0.211	-0.00001	2.7	-0.001	0.144	0.052	0.004	0.823	2.4	0.00144	0.00014	0.009	-0.001	0.105	2350
274694	MMI	387907.8	5394908	1300	7200	HIGHPOINT	19/94	-0.00005	0.462	-0.00001	7.2	-0.001	4.8	0.034	0.007	2	2.4	0.00156	0.00019	0.006	-0.001	0.129	2350
274695	MMI	387952.6	5394889	1350	7200	HIGHPOINT	19/94	-0.00005	0.791	-0.00001	5.8	-0.001	0.095	0.024	0.016	0.349	3.4	-0.00001	0.00009	0.005	-0.001	0.044	2350
274696	MMI	387997.4	5394871	1400	7200	HIGHPOINT	19/94	0.0081	0.03	-0.00001	2.9	0.039	0.084	0.463	-0.001	0.225	1.4	-0.00001	-0.00001	-0.001	-0.001	3.8	2350
274697	MMI	388042.2	5394852	1450	7200	HIGHPOINT	19/94	0.0036	0.236	0.00003	2.3	0.006	0.031	0.365	0.007	0.156	1.1	-0.00001	-0.00001	-0.001	-0.001	0.699	2350
274698	MMI	388087.1	5394833	1500	7200	HIGHPOINT	19/94	0.0049	0.932	-0.00001	4.2	0.013	0.032	0.863	0.044	0.429	2.8	0.00379	0.00016	0.019	-0.001	2	2350
274699	MMI	388131.9	5394815	1550	7200	HIGHPOINT	19/94	0.0018	0.232	-0.00001	10	0.026	2.8	0.405	0.059	4.1	0.484	0.00171	0.00034	0.008	-0.001	4.9	2350
274700	MMI	387815.6	5394686	1300	7000	HIGHPOINT	19/94	0.0023	0.364	0.00011	10	0.021	0.399	0.427	0.035	0.894	3.8	-0.00001	0.00016	0.009	-0.001	5.3	2350
							Method	*IC8/40*	*IC8/40*	*IC8/40*	*IC8/40*	*IC8/40*	*IC8/40*	*IC8/40*	*IC8/40*	*IC8/40*	*IC8/40*	*IC8/40*	*IC8/40*	*IC8/40*	*IC8/40*	*IC8/40*	
							Det Limit	*0.00005*	*0.001*	*0.00001*	*0.001*	*0.001*	*0.001*	*0.001*	*0.001*	*0.001*	*0.001*	*0.00001*	*0.00001*	*0.001*	*0.001*	*0.001*	

163061


350000 mE
400000 mE
Somerset
Burnie
BASS STRAIT
5450000 mN
Penguin
Ulverstone
Forth
Map Area
TASMANIA
Waratah
Lake Barrington EL3/98
Savage River
5400000 mN
Bulgobac River EL19/94
Mount Charter EL10/98
Bulgobac Hill EL37/89
Burns Peak EL44/88
Mount Sale EL14/98
Tullah
Rosebery
Tullah EL22/90
Dundas EL21/96
Zeehan
Walford Peak EL24/96
5350000 mN
Queenstown EL6/98
Queenstown
Strahan
5 cm
00_4430
Annual report for the period ending 31 July 999 - Bulgobac Hill EL 37/89 and Bulgobac River EL 19/94
Pasminco Exploration*
McNeill, A.W.; Parfrey, O.
EL19/94; EL37/89
Legend to Tenements
Bulgobac River EL 19/94 & Bulgobac Hill EL 37/89
Other Pasminco EL's
Rosebery Mine Lease
163062
PASMINCO EXPLORATION
EXPLORATION PROJECTS - TASMANIA
BULGOBAC
Date: 12/10/1998
Author:
Drawn: ETS
Ref:
BULGOBAC RIVER & BULGOBAC HILL EL's
Projection: AMG Zone 55 (AGD66)
Plan No: 1
Revisions:
0 10 20
KILOMETRES
Scale: 1:500,000


QUE RIVER
LEGEND
HEC Vested Land Excluded from EL
HEC Vested Land Included in EL
Multiple Use Forest
RAP Recommended Area for Protection
Sock Creek
Mt. Charter
Bulgobac River
Highway
Murchison
Animal
Creek
Transmission Lines
HEC
MT. BLOCK
GRANITE TOR RAP
LAKE MACKINTOSH
390 000mE
385 000mE
5 390 000mN
5 385 000mN
5 380 000mN
5 cm
00_4430
Annual report for the period ending 31 July 999 -
Bulgobac Hill EL 37/89 and Bulgobac River EL 19/94
Pasminco Exploration*
McNeill, A.W.; Parfrey, O. EL19/94; EL37/89
NOTE : 163063
Land Tenure is shown within EL only.
PASMINCO EXPLORATION
A Division of Pasminco Australia Limited
COMPILED : G.M.B.
DATE : July 1996
DRAWN : P.G.R.
REVISIONS :
FILE : 50_BHTEN
DRAWING No.
E.L. 37/89 - BULGOBAC HILL
LAND TENURE
SCALE 1:50,000
0 1 km
FIG. No. 2



00_4430

Annual report for the period ending 31 July 999 -
Bulgobac Hill EL 37/89 and Bulgobac River EL 19/94
Pasminco Exploration*
McNeill, A.W.; Parfrey, O. EL19/94; EL37/89

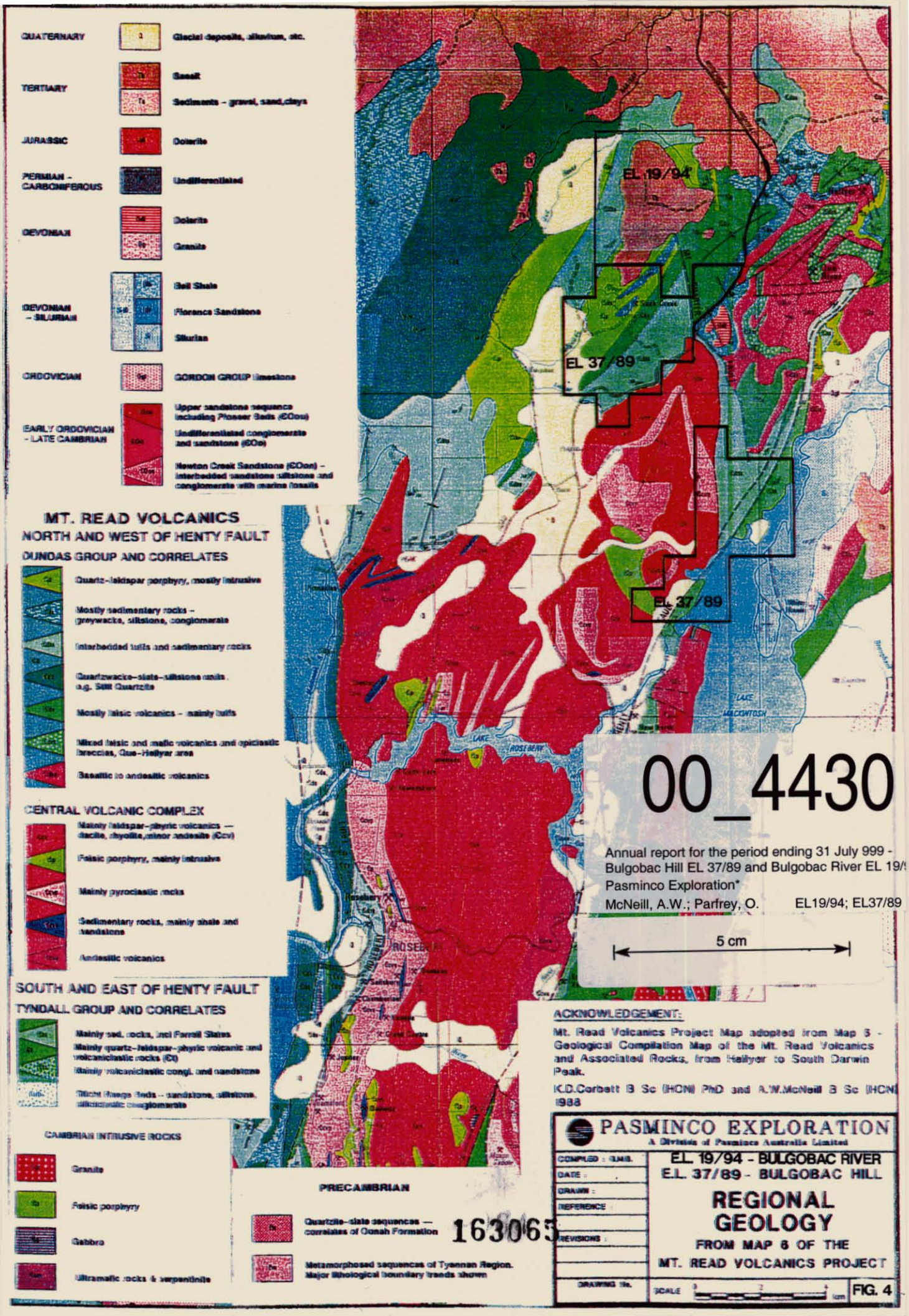
KEY

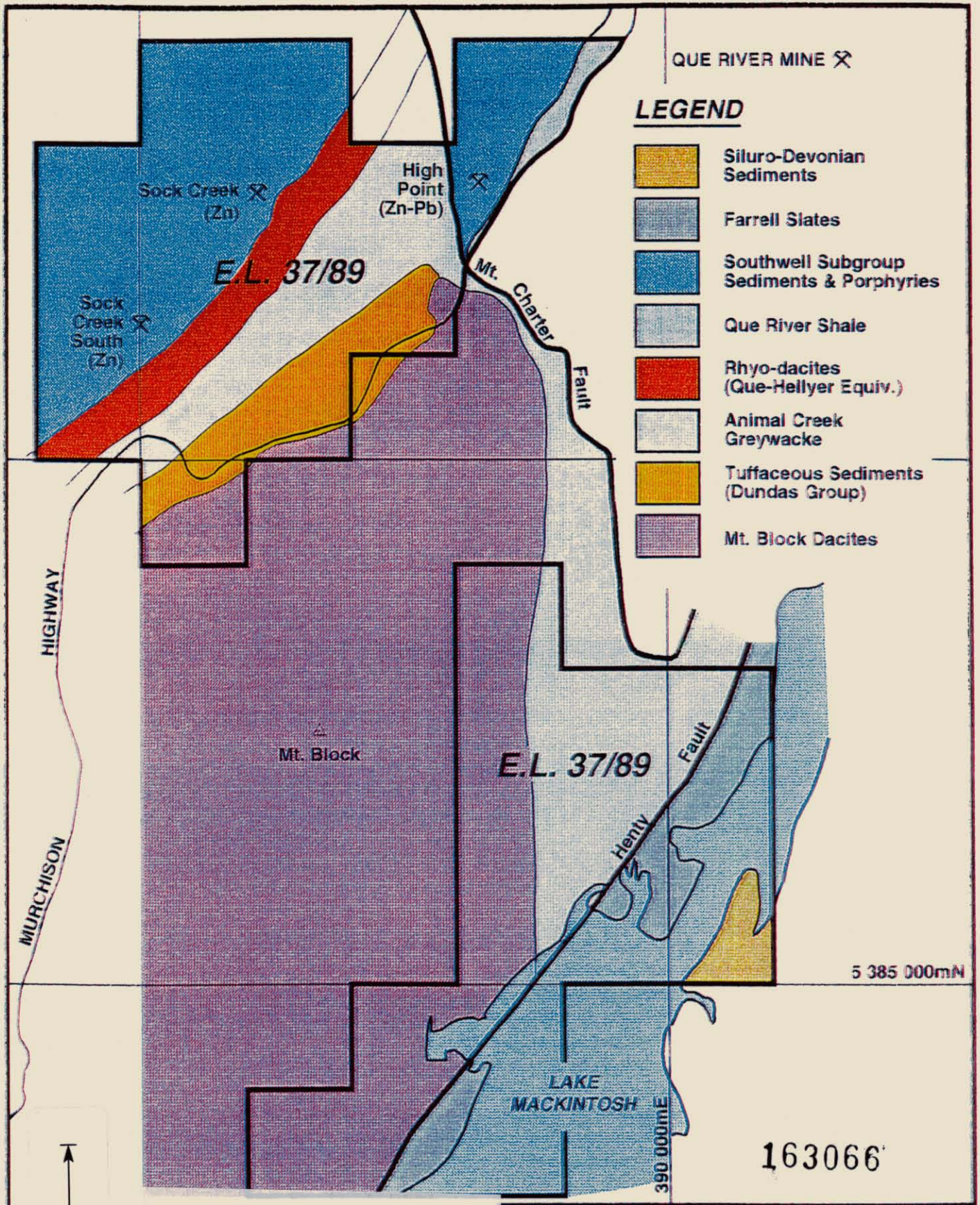
Crown Land – Multiple Use Forest

163064

PASMINCO EXPLORATION
A Division of Pasminco Australia Limited

COMPILED : G.M.B.	E.L. 19/94 – BULGOBAC RIVER
DATE : Nov., 1995	**LAND TENURE**
DRAWN : G.M.B.	
REVISIONS :	
FILE : SQ_BRTEN	
DRAWING No. 318-GN-003	SCALE 1:50,000 0 1 km FIG. 3


QUATERNARY
Glacial deposits, alluvium, etc.
TERTIARY
Basalt
Sediments - gravel, sand, clays
JURASSIC
Dolerite
PERMIAN - CARBONIFEROUS
Undifferentiated
DEVONIAN
Dolerite
Granite
DEVONIAN - SILURIAN
Bell Shale
Florence Sandstone
Silurian
ORDOVICIAN
GORDON GROUP limestone
EARLY ORDOVICIAN - LATE CAMBRIAN
Upper sandstone sequence including Pioneer Beds (€Oou)
Undifferentiated conglomerate and sandstone (€Oo)
Newton Creek Sandstone (€Oon) - interbedded sandstone siltstone and conglomerate with marine fossils
MT. READ VOLCANICS
NORTH AND WEST OF HENTY FAULT
DUNDAS GROUP AND CORRELATES
Quartz-feldspar porphyry, mostly intrusive
Mostly sedimentary rocks - greywacke, siltstone, conglomerate
Interbedded tuffs and sedimentary rocks
Quartzwacke-slate-siltstone units e.g. Still Quartzite
Mostly felsic volcanics - mainly tuffs
Mixed felsic and mafic volcanics and epiclastic breccias, Que-Hellyer area
Basaltic to andesitic volcanics
CENTRAL VOLCANIC COMPLEX
Mainly feldspar-phyric volcanics — dacite, rhyolite, minor andesite (Ccv)
Felsic porphyry, mainly intrusive
Mainly pyroclastic rocks
Sedimentary rocks, mainly shale and sandstone
Andesitic volcanics
SOUTH AND EAST OF HENTY FAULT
TYNDALL GROUP AND CORRELATES
Mainly sed. rocks, incl Farrell Slates
Mainly quartz-feldspar-phyric volcanic and volcaniclastic rocks (Ct)
Mainly volcaniclastic congl. and sandstone
Tkichi Range beds - sandstone, siltstone, siliciclastic conglomerate
CAMBRIAN INTRUSIVE ROCKS
Granite
Felsic porphyry
Gabbro
Ultramafic rocks & serpentinite
PRECAMBRIAN
Quartzite-slate sequences — correlates of Oonah Formation
Metamorphosed sequences of Tyennan Region. Major lithological boundary trends shown
EL 19/94
EL 37/89
EL 37/89
LAKE MACKINTOSH
LAKE ROSEBERY
ROSEBERY
00_4430
Annual report for the period ending 31 July 999 -
Bulgobac Hill EL 37/89 and Bulgobac River EL 19/
Pasminco Exploration*
McNeill, A.W.; Parfrey, O. EL19/94; EL37/89
5 cm
ACKNOWLEDGEMENT:
Mt. Read Volcanics Project Map adopted from Map 5 - Geological Compilation Map of the Mt. Read Volcanics and Associated Rocks, from Hellyer to South Darwin Peak.
K.D.Corbett B Sc (HON) PhD and A.W.McNeill B Sc (HON) 1988
PASMINCO EXPLORATION
A Division of Pasminco Australia Limited
COMPILED :
DATE :
DRAWN :
REFERENCE :
REVISIONS :
DRAWING No.
EL 19/94 - BULGOBAC RIVER
EL 37/89 - BULGOBAC HILL
REGIONAL GEOLOGY
FROM MAP 6 OF THE
MT. READ VOLCANICS PROJECT
SCALE
FIG. 4



163066

00_4430

Annual report for the period ending 31 July 999 - Bulgobac Hill EL 37/89 and Bulgobac River EL 19/94

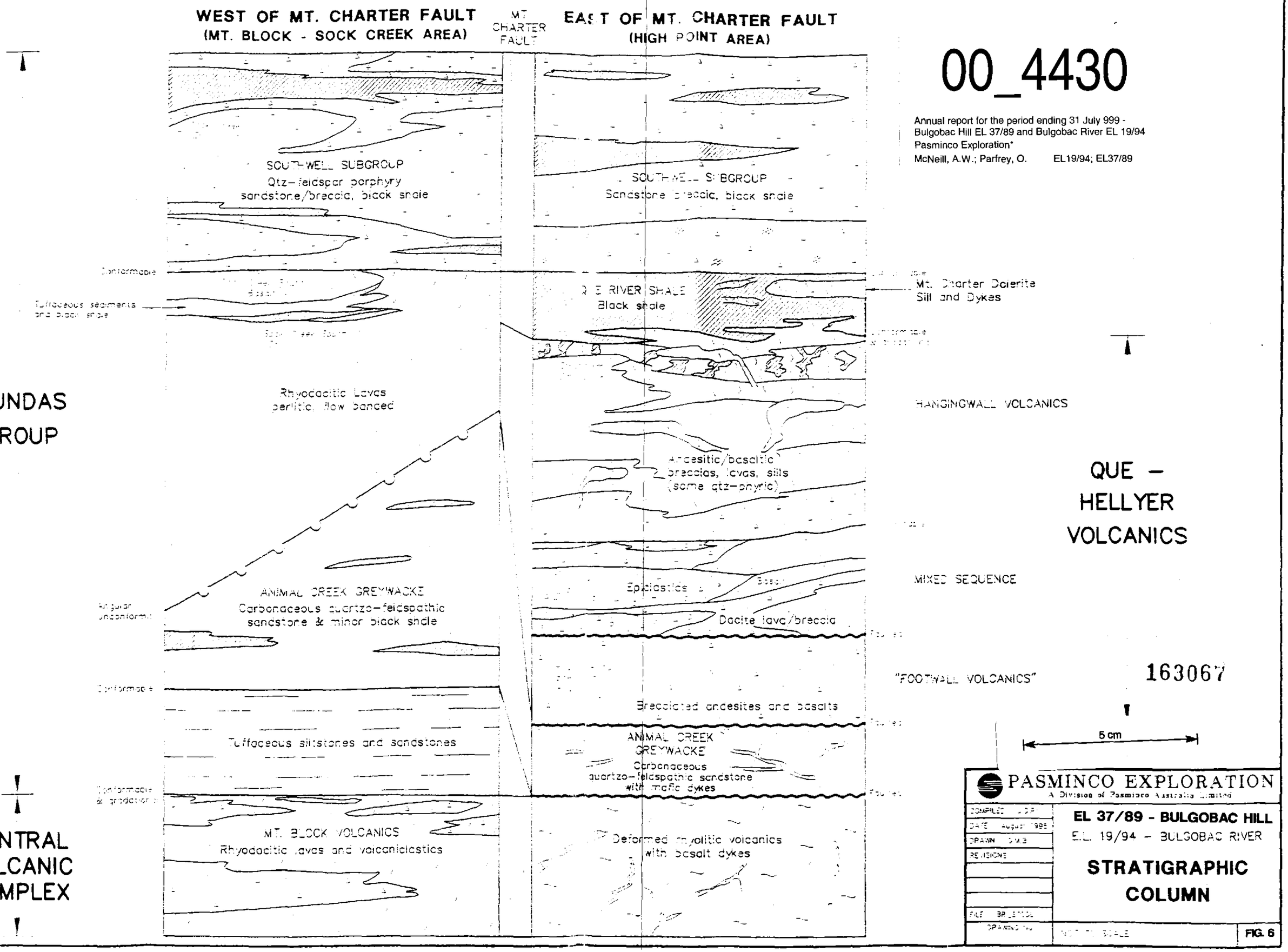
Pasminco Exploration*

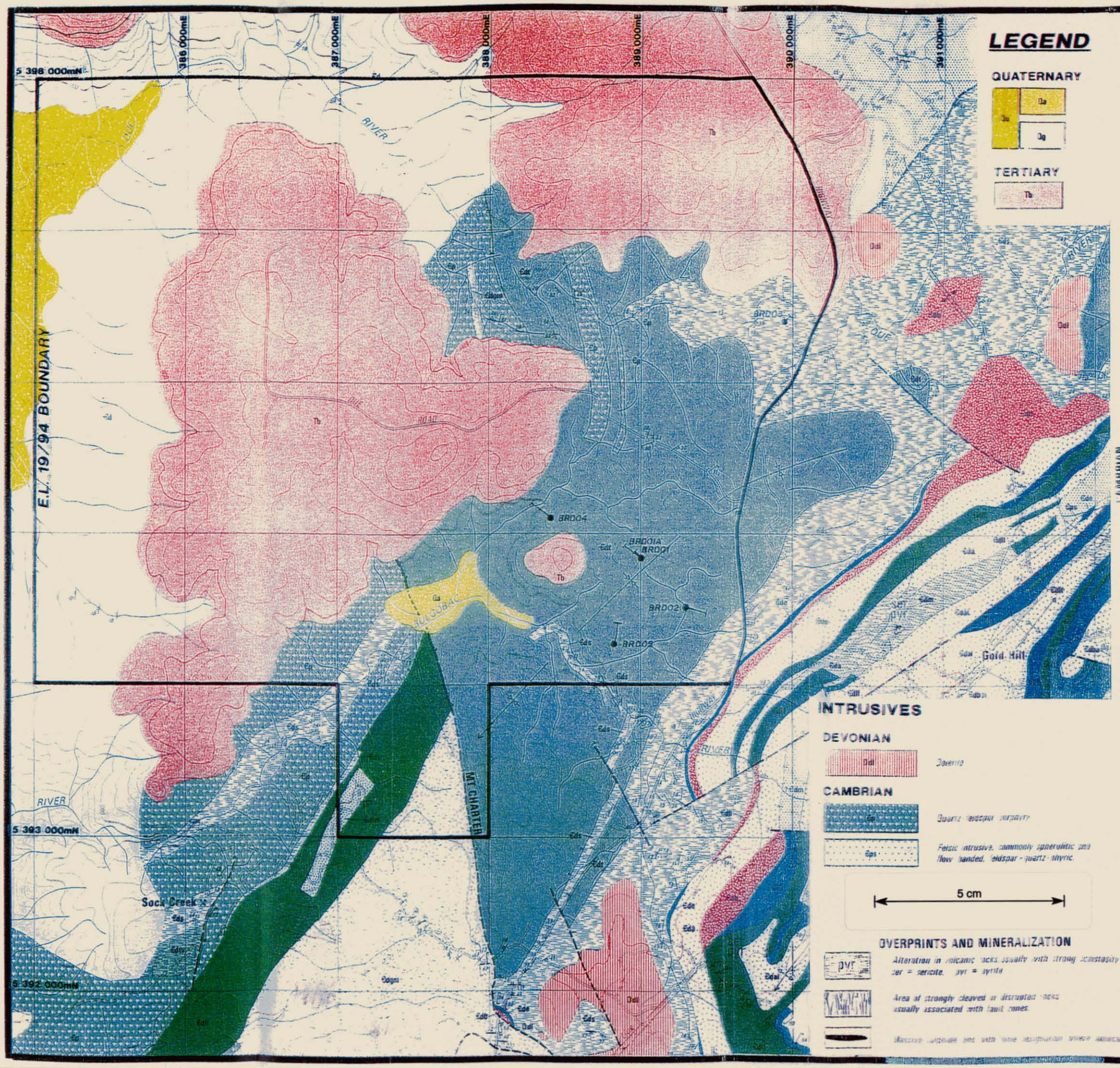
McNeill, A.W.; Parfrey, O. EL19/94; EL37/89

PASMINCO EXPLORATION

A Division of Pasminco Australia Limited

COMPILED : J.G.P.	E.L. 37/89 - BULGOBAC HILL
DATE : July 1995	
DRAWN : G.M.B.	
REVISIONS :	**GEOLOGY**
FILE : 50_BHGOL	
DRAWING No.	SCALE 1:50,000 0 100 m FIG. 5





LEGEND

QUATERNARY

Qa

Qg

TERTIARY

Tb

INTRUSIVES

DEVONIAN

Ddil — Diorite

CAMBRIAN

Cgr — Quartz feldspar porphyry

Cps — Felsic intrusive, commonly spherulitic and flow banded, feldspar - quartz - phyric.

5 cm

OVERPRINTS AND MINERALIZATION

pyr — Alteration in volcanic rocks usually with strong associated ser = sericite, pyr = pyrite

Area of strongly cleaved or disrupted rocks usually associated with fault zones.

Massive sulphide ore with some recrystallization where observable

WEST OF HENTY FAULT ZONE

DUNDAS GROUP

Cgr — Quartz feldspar porphyry.

Cps — Felsic intrusive, commonly spherulitic and flow banded, feldspar quartz phyric.

Cdq, Cdlt — Lithicwacke with interbedded siltstone and mudstone and intercalations of felsic tuff Cdlt

Cdlt — Felsic tuff, generally quartz-feldspar phyric, often well bedded with pumice clasts in some cases.

Cdm — Dominantly shale, siltstone and mudstone, generally black pyritic with basal lenses of epiclastic agglommerate Cde

Cdba — Basaltic lavas and breccias, commonly pillow lavas with inter pillow chert.

Cda — Andesitic lavas breccias and grits

Cde — Epiclastic breccias and grits with clasts of basalt, andesite felsic lava and massive sulphide Cde, intercalations of andesitic volcanics Cda, vesicular basaltic andesitic lava Cdba flow banded rhyolitic felsic lava Cdlf and massive sulphide shown

Cdlf — Felsic lava, generally flow banded and quartz feldspar porphyritic

Cdsn — Lower sequence of basaltic and andesitic lavas, and tuffs. Some basaltic Cdbl, and andesitic C... shown Some intercalations of felsic tuff Cdlv

Cdlt — Felsic tuff with intercalations of fine grained and minor felsic lavas Cdlv

Cdq — Lithicwacke sandstone commonly volcanic, interbedded siltstone, felsic tuff and minor basaltic andesitic volcanics.

WEST AND SOUTH OF MT CHARTER

Cgr — Quartz feldspar porphyry intrusives with associated minor lavas and tuffs

Cdm — Dominantly black shale and siltstone with interbedded felsic tuffaceous tuff Cdlv

Cdlv — Felsic lava, mostly feldspar phyric, massive in part with zone of flow breccia and epiclastic rocks indicated Cdlm

Cdsn — Dominantly volcaniclastic lithicwacke with interbedded siltstone.

Cdsn — Dominantly siltaceous lithicwacke with interbedded siltstone.

CENTRAL VOLCANIC SEQUENCE

Ecv — Felsic pyroclastic rocks, generally feldspar phyric Some units of flamme-bearing ignimbritic tuff and fine grained felsic tuff Ecvvt shown

Ecvvt — Felsic lava, generally feldspar phyric.

PASMINCO EXPLORATION
A Division of Pasminco Australia Limited

COMPILED : G.M.B.	E.L. 19/94 - BULGOBAC RIVER
DATE : Dec., 1995	
DRAWN :	**GEOLOGY**
REF : Map 1	163068
Mt. Read Volcanics	
Projects	
FILE :	
DRAWING No. 319-GL-004	SCALE 1:25, 000 — 0 500 m — FIG. 7

389750 mE
390000 mE
390250 mE
390500 mE
390750 mE
391000 mE
5388000 mN
5387750 mN
5387500 mN
5387250 mN
5387000 mN
5386750 mN
5386250 mN

EL10/98

EL37/89

EL10/98

EL37/89

EL37/89

N

273914 273913 273912 273911 273910 273909 273908 273907 273906
273895 273896 273897 273898 273901 273902 273903 273904 273905
273894 273893 273892 273891 273890 273889 273888 273887 273886
273877 273878 273879 273880 273881 273882 273883 273884 273885
273876 273875 273873 273872 273871 273870 273869 273868 273867

273847 273848 273849 273850 273851 273852 273853 273854 273855 273856 273857 273858 273859 273861 273862 273863 273864 273865 273866
273846 273845 273844 273843 273842 273841 273840 273839 273838 273837 273836 273835 273834 273833 273832 273831 273830 273829 273828
273808 273809 273810 273811 273812 273813 273814 273815 273816 273817 273818 273819 273821 273822 273823 273824 273825 273826 273827
273807 273806 273804 273803 273802 273801 273800 273799 273798 273797 273796 273795 273794 273793
273777 273778 273779 273781 273782 273783 273784 273785 273786 273787 273788 273789 273790 273791 273792

5 cm

163069

PASMINCO EXPLORATION

MT READ BELT
Bulgobac Hill EL 37/89

Author: A.McNeill
Date: 30/3/2000
Office: Melbourne
Drawn: M.Shrives
Ref: GIS_00_034
Projection: AMGz55 AGD66

MMI Sample Locations
Tullabardine Prospect
Bulgobac Hill EL 37/89
Fig 8

Scale: 1:5000

50 0 50 100 m

389750 mE
390000 mE
390250 mE
390500 mE
390750 mE
391000 mE
5388000 mN
5387750 mN
5387500 mN
5387250 mN
5387000 mN
5386750 mN
5386250 mN

EL10/98

EL37/89

EL10/98

EL37/89

EL37/89

N

330.533 330.532 330.531 330.530 330.529 330.528 330.527 330.526 330.525 330.524 330.523 330.522 330.521 330.520 330.519 330.518 330.517 330.516 330.515 330.514 330.513 330.512 330.511 330.510 330.509 330.508 330.507 330.506 330.505 330.504 330.503 330.502

163070

PASMINCO EXPLORATION

MT READ BELT
Bulgobac Hill EL 37/89

Author: A.McNeill
Date: 30/3/2000
Office: Melbourne
Drawn: M.Shrives
Ref: GIS_00_034
Projection: AMGz55 AGD66

C-Horizon Soil Sample Locations
Tullabardine Prospect
Bulgobac Hill EL37/89
Fig 9

5 cm

Scale: 1:5000

50 0 50 100 m

389750 mE
390000 mE
390250 mE
390500 mE
390750 mE
391000 mE

5388000 mN
5387750 mN
5387500 mN
5387250 mN
5387000 mN
5386750 mN
5386250 mN

EL10/98

EL37/89

EL10/98

EL37/89

EL37/89

N

305081
305082
305083
305084
305085
305086
305087
305088

5 cm

163071

PASMINCO EXPLORATION

MT READ BELT
Bulgobac Hill EL 37/89

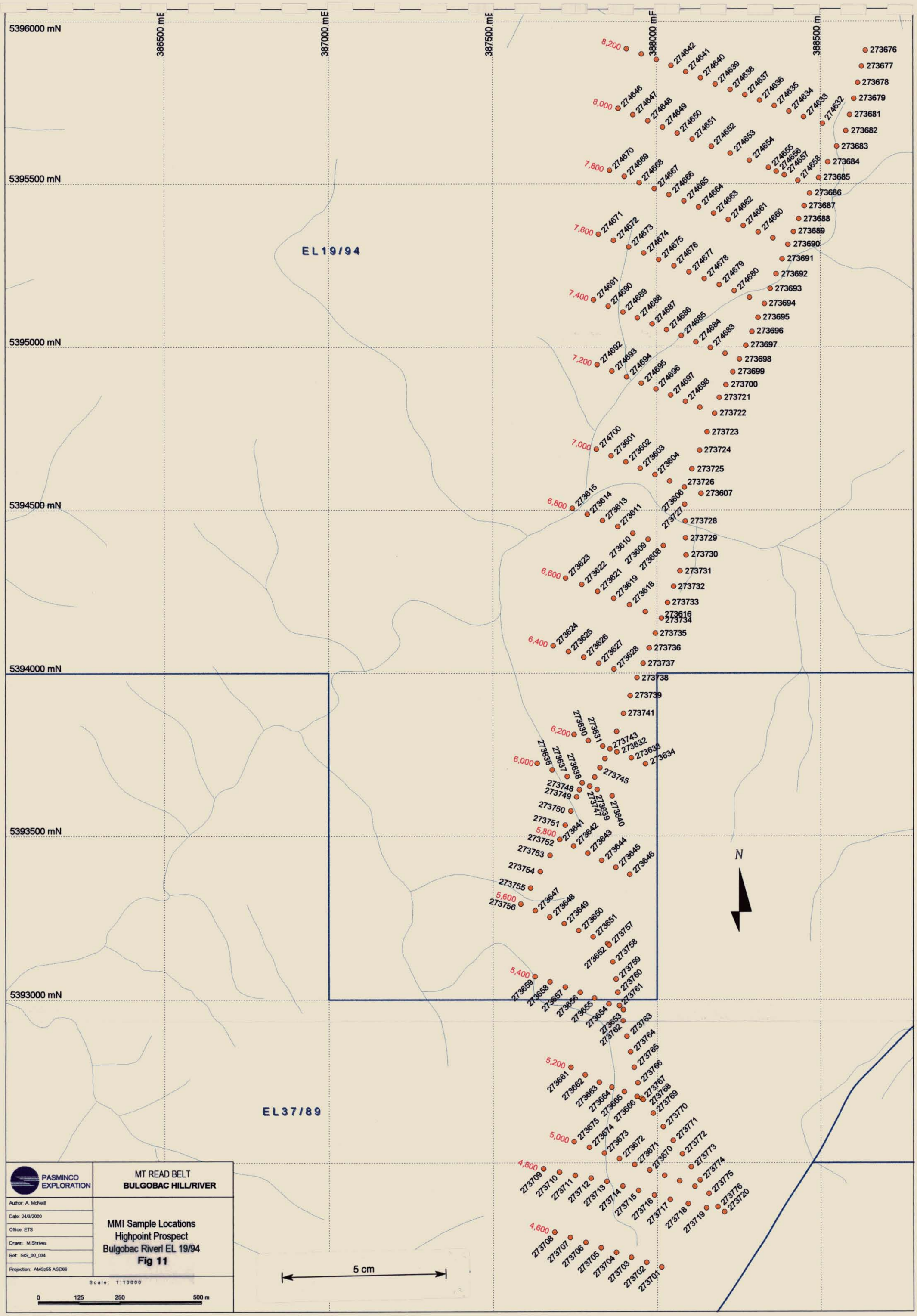
Author: A.McNeill
Date: 30/3/2000
Office: Melbourne
Drawn: M.Shrives
Ref: GIS_00_034
Projection: AMGz55 AGD66

Rock Chip Sample Locations
Tullabardine Prospect
Bulgobac Hill EL 37/89

Fig 10

Scale: 1:5000

50 0 50 100 m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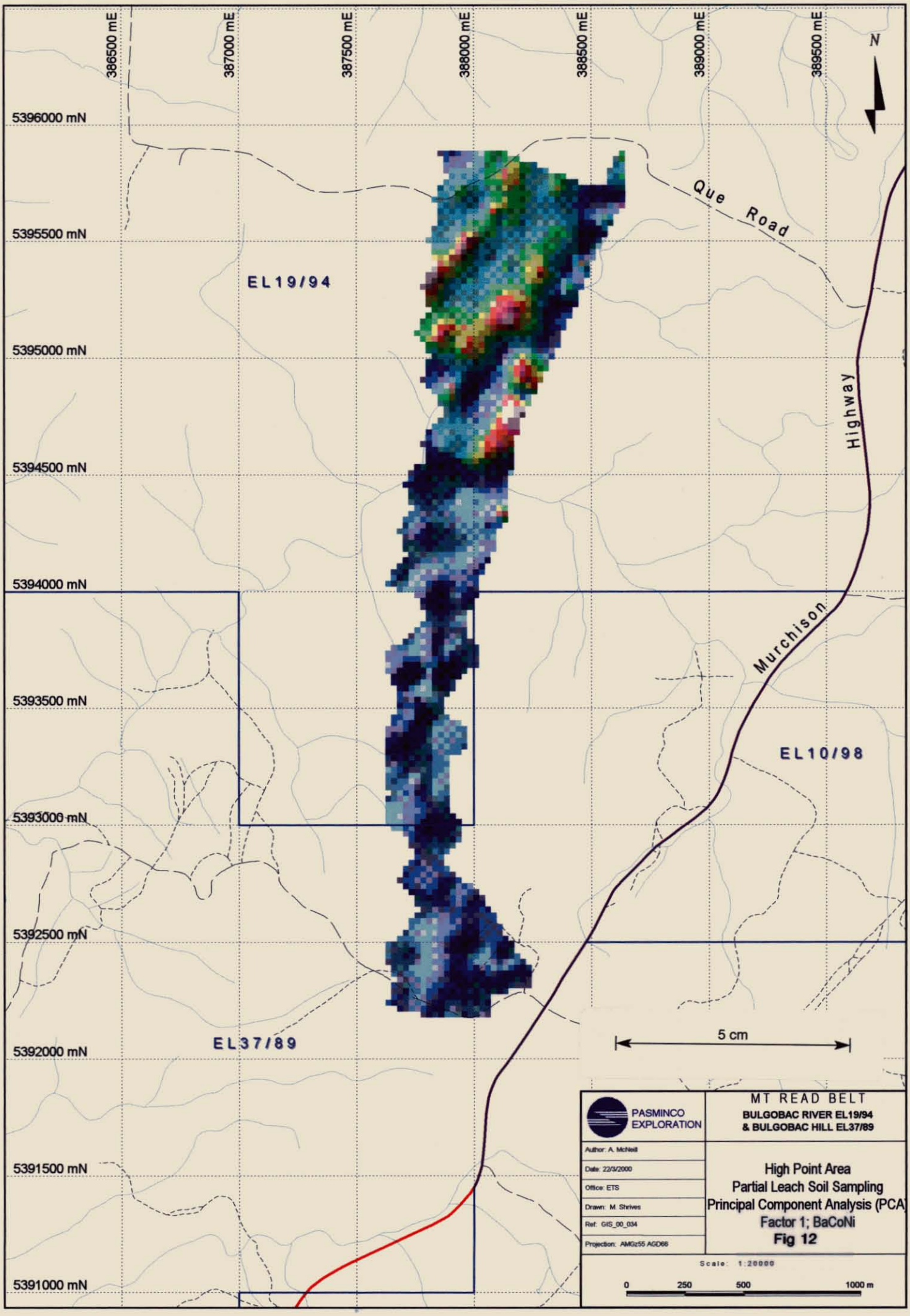
387000 mE
387500 mE
388000 mE
388500 m
5396000 mN
5395500 mN
5395000 mN
5394500 mN
5394000 mN
5393500 mN
5393000 mN
EL19/94
EL37/89
N
5 cm
PASMINCO EXPLORATION
MT READ BELT
BULGOBAC HILL/RIVER
Author: A. McNeill
Date: 24/3/2000
Office: ETS
Drawn: M.Shrives
Ref: GIS_00_034
Projection: AMGz55 AGD66
MMI Sample Locations
Highpoint Prospect
Bulgobac River EL 19/94
Fig 11
Scale: 1:10000
0 125 250 500 m

163072


386500 mE
387000 mE
387500 mE
388000 mE
388500 mE
389000 mE
389500 mE
N
5396000 mN
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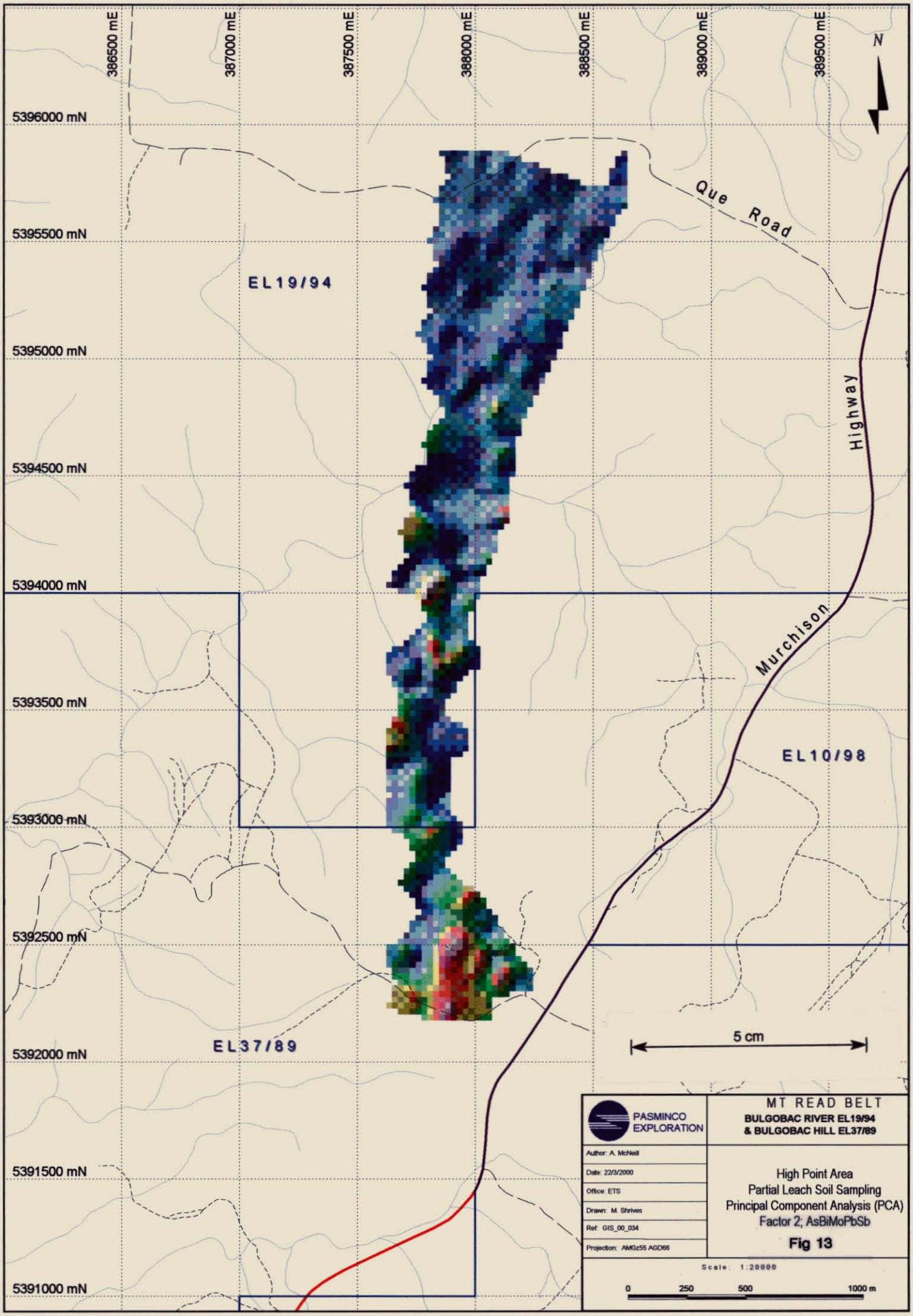
5395000 mN
5394500 mN
5394000 mN
5393500 mN
5393000 mN
5392500 mN
5392000 mN
5391500 mN
5391000 mN
Que Road
Highway
Murchison
EL19/94
EL10/98
EL37/89
5 cm
PASMINCO EXPLORATION
MT READ BELT
BULGOBAC RIVER EL19/94
& BULGOBAC HILL EL37/89
Author: A. McNeill
Date: 22/3/2000
Office: ETS
Drawn: M. Shrives
Ref: GIS_00_034
Projection: AMGz55 AGD66
High Point Area
Partial Leach Soil Sampling
Principal Component Analysis (PCA)
Factor 1; BaCoNi
Fig 12
Scale: 1:20000
0
250
500
1000 m

163073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387500 mE
388000 mE
388500 mE
389000 mE
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N
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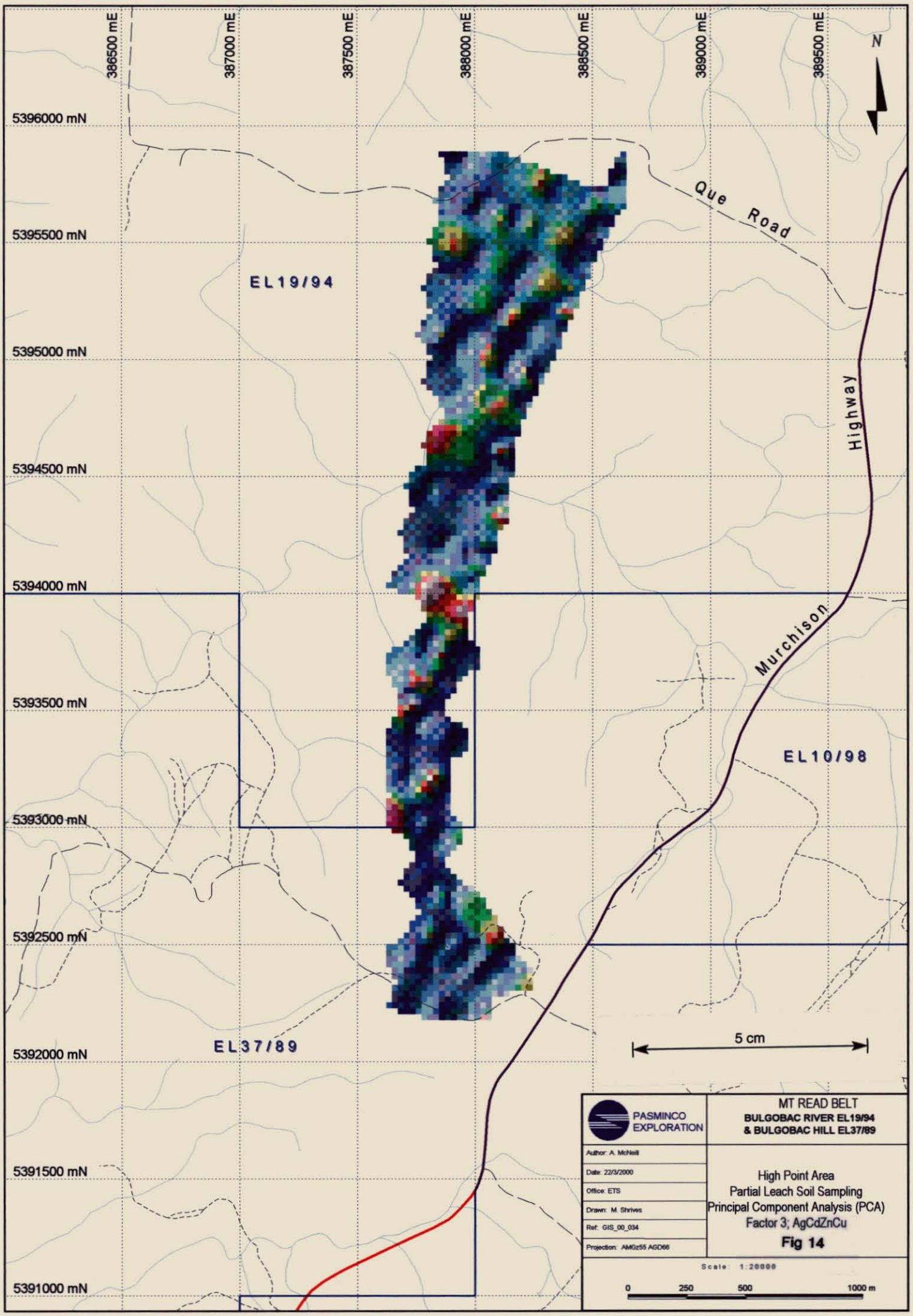
5395000 mN
5394500 mN
5394000 mN
5393500 mN
5393000 mN
5392500 mN
5392000 mN
5391500 mN
5391000 mN
Que Road
Highway
Murchison
EL19/94
EL10/98
EL37/89
5 cm
PASMINCO EXPLORATION
MT READ BELT
BULGOBAC RIVER EL19/94
& BULGOBAC HILL EL37/89
Author: A. McNeill
Date: 22/3/2000
Office: ETS
Drawn: M. Shrives
Ref: GIS_00_034
Projection: AMGz55 AGD66
High Point Area
Partial Leach Soil Sampling
Principal Component Analysis (PCA)
Factor 2; AsBiMoPbSb
Fig 13
Scale: 1:20000
0
250
500
1000 m

163074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388000 mE
388500 mE
389000 mE
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N
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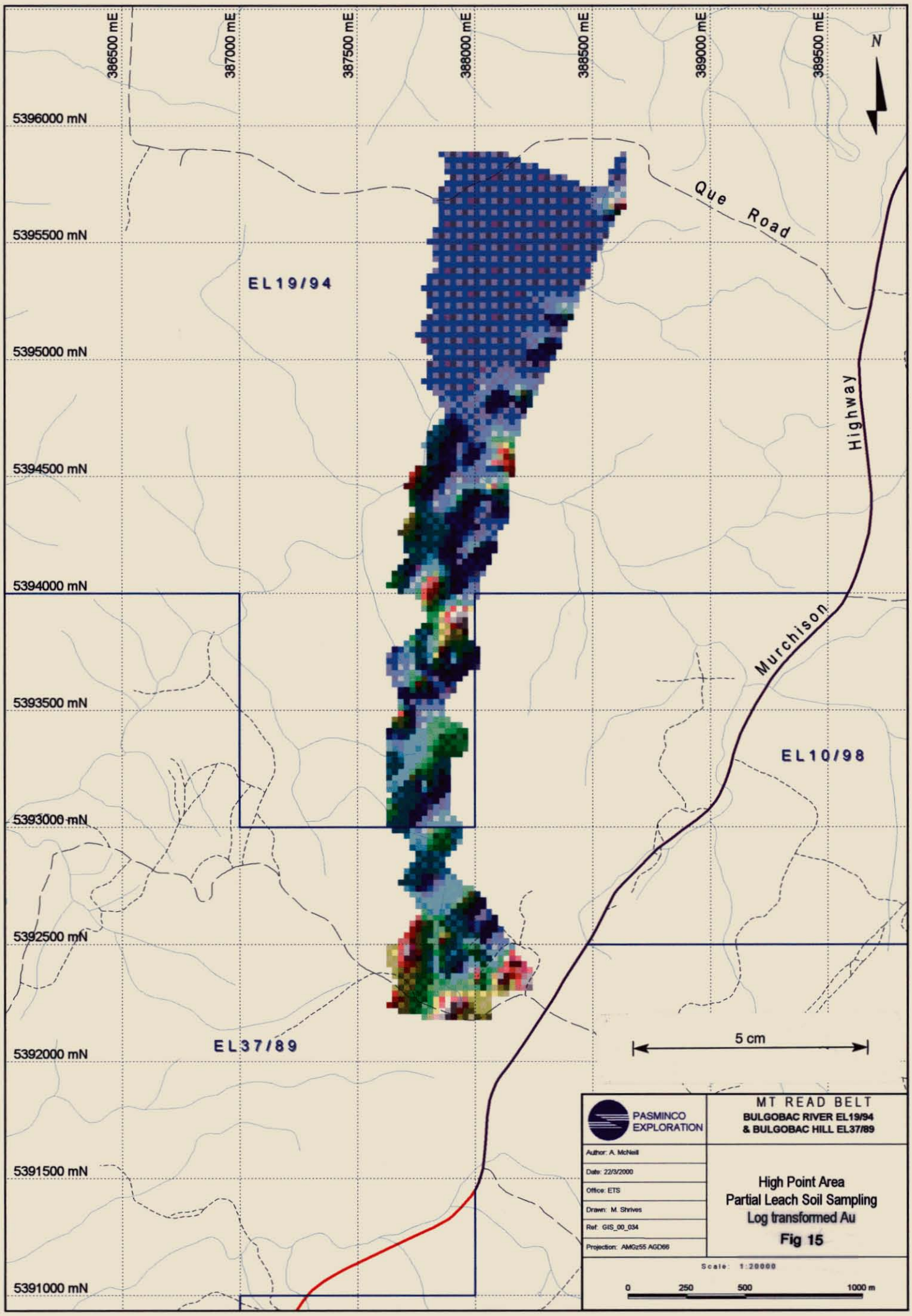
5395000 mN
5394500 mN
5394000 mN
5393500 mN
5393000 mN
5392500 mN
5392000 mN
5391500 mN
5391000 mN
Que Road
Highway
Murchison
EL19/94
EL10/98
EL37/89
5 cm
PASMINCO EXPLORATION
MT READ BELT
BULGOBAC RIVER EL19/94
& BULGOBAC HILL EL37/89
Author: A. McNeill
Date: 22/3/2000
Office: ETS
Drawn: M. Shrives
Ref: GIS_00_034
Projection: AMGz55 AGD66
High Point Area
Partial Leach Soil Sampling
Principal Component Analysis (PCA)
Factor 3; AgCdZnCu
Fig 14
Scale: 1:20000
0
250
500
1000 m

163075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387000 mE
387500 mE
388000 mE
388500 mE
389000 mE
389500 mE
N
5396000 mN
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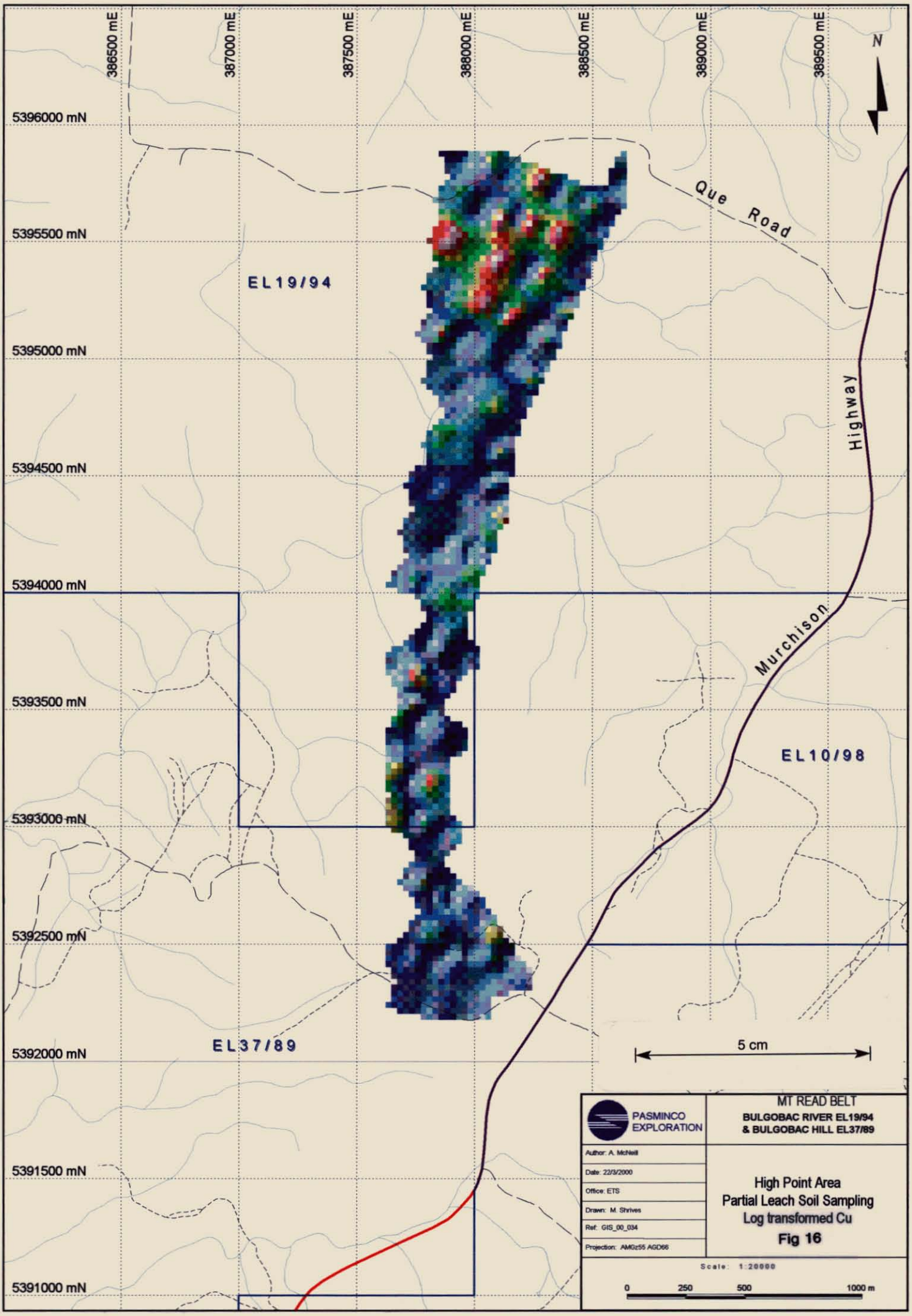
5395000 mN
5394500 mN
5394000 mN
5393500 mN
5393000 mN
5392500 mN
5392000 mN
5391500 mN
5391000 mN
Que Road
Highway
Murchison
EL19/94
EL10/98
EL37/89
5 cm
PASMINCO EXPLORATION
MT READ BELT
BULGOBAC RIVER EL19/94
& BULGOBAC HILL EL37/89
Author: A. McNeill
Date: 22/3/2000
Office: ETS
Drawn: M. Shrives
Ref: GIS_00_034
Projection: AMGz55 AGD66
High Point Area
Partial Leach Soil Sampling
Log transformed Au
Fig 15
Scale: 1:20000
0
250
500
1000 m

163076


386500 mE
387000 mE
387500 mE
388000 mE
388500 mE
389000 mE
389500 mE
N
5396000 mN
5395500 mN
5395000 mN
5394500 mN
5394000 mN
5393500 mN
5393000 mN
5392500 mN
5392000 mN
5391500 mN
5391000 mN
Que Road
Highway
Murchison
EL19/94
EL10/98
EL37/89
5 cm
PASMINCO EXPLORATION
MT READ BELT
BULGOBAC RIVER EL19/94
& BULGOBAC HILL EL37/89
Author: A. McNeill
Date: 22/3/2000
Office: ETS
Drawn: M. Shrives
Ref: GIS_00_034
Projection: AMGz55 AGD66
High Point Area
Partial Leach Soil Sampling
Log transformed Cu
Fig 16
Scale: 1:20000
0
250
500
1000 m

163077

5396000 mN

5395500 mN

5395000 mN

5394500 mN

5394000 mN

5393500 mN

5393000 mN

5392500 mN

386500 mE

387000 mE

387500 mE

388000 mE

388500 mE

EL19/94

EL37/89

N

5 cm

PASMINCO EXPLORATION	MT READ BELT **BULGOBAC HILL/RIVER**
Author: A. McNeil	
Date: 24/3/2000	
Office: ETS	
Drawn: M.Shrives	
Ref: GIS_00_034	
Projection: AMGz55 AGD66	

EL 37/89 and EL 19/94
High Point Area
Partial Leach Soil Sampling
Log transformed Pb and
'c' horizon total digest Pb (ppm)
Fig 17

Scale: 1:10000

0 125 250 500 m

1630781

5396000 mN

5395500 mN

5395000 mN

5394500 mN

5394000 mN

5393500 mN

5393000 mN

386500 mE

387000 mE

387500 m

388000 mE

388500 m

EL19/94

EL37/89

N

5 cm

PASMINCO EXPLORATION

MT READ BELT

BULGOBAC HILL/RIVER

Author: A. McNeill

Date: 24/3/2000

Office: ETS

Drawn: M.Shrives

Ref: GIS_00_034

Projection: AMGz55 AGD66

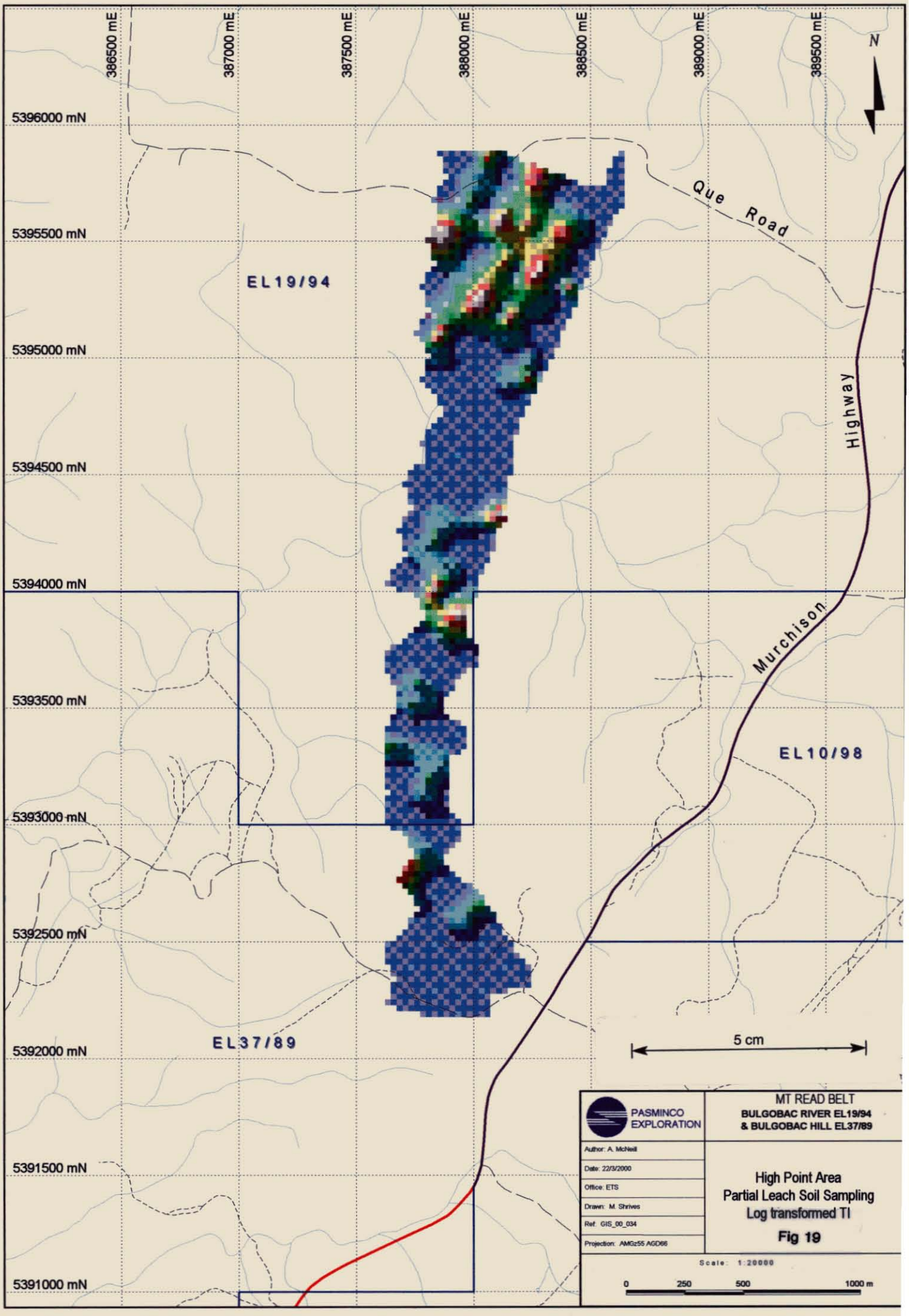
EL 37/89 and EL 19/94
High Point Area
Partial Leach Soil Sampling
Log transformed Zn and
'c' horizon total digest Zn (ppm)

Fig 18

Scale: 1:10000

0 125 250 500 m

163079


386500 mE
387000 mE
387500 mE
388000 mE
388500 mE
389000 mE
389500 mE
N
5396000 mN
5395500 mN
5395000 mN
5394500 mN
5394000 mN
5393500 mN
5393000 mN
5392500 mN
5392000 mN
5391500 mN
5391000 mN
Que Road
Highway
Murchison
EL19/94
EL10/98
EL37/89
5 cm
PASMINCO EXPLORATION
MT READ BELT
BULGOBAC RIVER EL19/94
& BULGOBAC HILL EL37/89
Author: A. McNeill
Date: 22/3/2000
Office: ETS
Drawn: M. Shrives
Ref: GIS_00_034
Projection: AMGz55 AGD66
High Point Area
Partial Leach Soil Sampling
Log transformed TI
Fig 19
Scale: 1:20000
0
250
500
1000 m

163030