

EL14/2006 “Dove River”

Annual Report 2007



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Summary

This report is the first Annual Report for the Dove River exploration licence (EL14/2006) and is submitted in accordance with the Mineral Resources Development Act (1995) by Pluton Resources Ltd. (Australian Stock Exchange Code: PLV).

The Dove River exploration licence contains a number of mineral occurrences, old mines and a goldfield (Five Mile Rise). Areas of hydrothermal alteration within the licence commonly yield anomalous metal values. The tenement has not been systematically explored for gold, more particularly no work has previously been conducted on the source of gold below the Ordovician rocks that host the Five Mile Rise goldfield. A review of previous literature has confirmed the lack of activity exploring the Cambrian basement where exposed and concealed under cover.

The region shows similar characteristics to that of the copper-gold, high-sulphidation and porphyry districts in New South Wales, including the Cadia and Goonumbla deposits. These include the setting and chemistry of the host rocks, as well as the styles of mineralisation and related alteration.

Pluton's primary focus is to add value to the Dove River licence by demonstrating the potential for large-scale porphyry-style mineralisation in proximity to the Cambrian Dove Granite. The prospect of other styles of mineralisation will also be considered.

Work by Pluton for the 9 months up until September 2007 includes geological mapping, sub-regional-scale rock chip sampling and drilling. The geology of the Dove River area was poorly understood and the area has not been geologically mapped since the late 1950's. Potential for porphyry-style mineralisation has focussed on the composition and extent of the Cambrian Dove Granite. Work by Pluton has shown the Dove Granite to be a probable composite I-type hornblende-biotite and biotite granite(s). This intermediate granite intrudes felsic quartz-phyric porphyry, which in turn intrudes (and is the probable source for) a thick sequence of volcanoclastic rocks.

Variations in rock-type and alteration are subtle. New geological maps and conclusions about the setting and origins of Cambrian rocks in the Dove River area are likely to evolve further with processing of geochemical data over the coming year.

Work to date has primarily focussed on three main areas of historic mineralisation within the tenement: the Devon Mine area, the Powerful Mine area and the Five Mile Rise Goldfield.

The Devon Mine is one of the larger historic workings in the area, known mainly for producing very clean galena ore from multiple veins. Rock chip sampling around the Devon Mine area has returned better than expected results for gold, silver, copper, lead and zinc. The age of mineralisation at the Devon Mine remains controversial. However, geological mapping in the vicinity of the Devon Mine has shown mineralisation to be associated with widespread and weakly gold anomalous potassic alteration. This area warrants drilling and a work program has been submitted for drilling this target.

The Powerful Mine area comprises propylitically and potassically altered Dove Granite and porphyritic volcanics with historic work showing weak base metal and gold anomalism. The area is magnetically, radiometrically and electromagnetically anomalous. Work by Pluton has included mapping and rock chip sampling. Two diamond drill holes were completed and intersected extensively altered rocks but with only minor metal mineralisation. These results are currently being reviewed.

One diamond hole was drilled into the western end of the Five Mile Rise goldfield. The hole targeted an IP chargeability high identified by RGC in the late 1980's. The drill hole intersected extensive hematite mineralisation and potassic alteration in the lower parts of the hole are associated with zones of disseminated copper mineralisation and auriferous sulphide veins. Mineralisation and alteration are porphyry-like. The eastern end of the Five Mile Rise has also been identified as a worthwhile sub-Ordovician drill target based on limited soil coverage and geophysics. Drilling is also proposed for this area.

Location data referred to in this report are referenced to the AGD66 geodetic datum.

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Introduction

Pluton Resources Limited is an Australian Stock Exchange listed mineral exploration company exploring EL 14/2006 (Dove River) for metallic minerals. Pluton intends to assess the tenement primarily for porphyry style alteration systems and mineralisation with a primary objective of identifying potential for bulk tonnage copper-gold mineralisation. The tenement was attractive for exploration due to similarities in aspects of the geology to porphyry-style copper-gold districts on mainland Australia and possible hybrid porphyry-VHMS systems in Tasmania.

Tenure

A tenement application (EL14/2006) for an area of about 36.5km² was made by Southern Ocean Science Pty. Ltd. in 2006. It was successfully partnered and transferred to Dove River Pty. Ltd., and Dove River Pty Ltd subsequently vested as a wholly owned subsidiary into Pluton Resources Ltd. in October 2006. Pluton Resources successfully listed on the ASX in December 2006

The exploration licence is located in the Mt Read Strategic Prospectivity Zone. This provides for security of exploration tenure by way of compensation of reasonable cost of work conducted (or resource defined) if a change in the tenement's land status results in the licence being revoked.

Location and land classification

The licence is located about 35km south of the township of Sheffield (pop approximately 1000) and about 60km from port facilities at Devonport (figure 1). The licence land classification consists of State Forest, MDC informal reserves, the Dove River Forest Reserve, approximately 15% private land and sits adjacent to Lake Cethana (a Hydro-Electric lake) and the Lemonthyme power station.

Topography

The topography of the licence is variable with a dissected plateau on the North of the licence and deeply incised creeks and (partially flooded) deep gorges of the Dove and Forth River valleys in the south (figure 2).

Vegetation and Soil

Vegetation comprises wet and dry eucalypt forest typically dominated by *Eucalyptus Obliqua*, *Delegatensis*, and *Amygdalina* spp. On wetter south facing slopes and near river banks there are occasional patches of rainforest, dogwood scrub and *Acacia Dealbata* forest. Undergrowth is dependent on how dry the site is, but typically consists of spiky heath or ferns.

A variable soil profile is developed throughout the tenement with outcropping bedrock generally restricted to road cuttings, ridge tops, cliffs and creek/river beds.

Access

Access to both the east and west of the tenement is via sealed road. Internal access and access to the south of the prospect is via formed forestry roads and four wheel drive tracks.

Access to the Five Mile Rise is via the Cradle Mountain Link Road (C132) than by way of a recently formed unsealed all weather forestry road from Daisy Dell. In part, this track parallels and crosses the Van Diemens Land Company (VDL Co.) track which was constructed by Fossey in 1827 between Mole Creek and Burnie.

Access to the Devon Mine is initially by way of the VDL Co. track, then a southerly fork with a dedicated track to the mine. The mine track descends about 600m elevation from the Five Mile Rise.

Access to the Powerful prospect is either from the south of the tenement by way of the Lemonthyme Road (C139) and then ungazetted track (locally known as River Road), or from the north via Lorinna. Pioneers Road, a spur road which runs east off Lorinna Road was used to access drill site DR2.

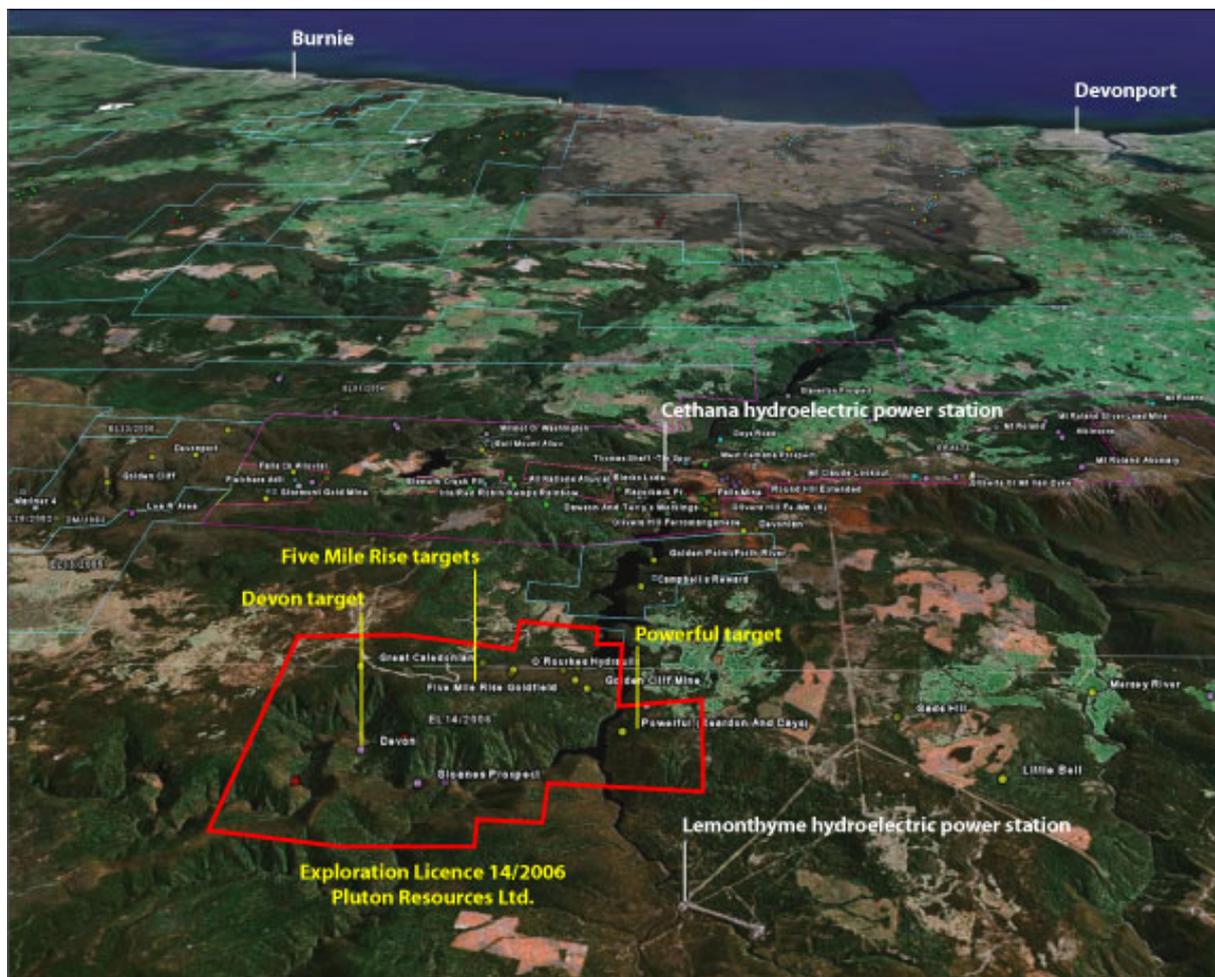


Figure 1 - Licence location and principal targets

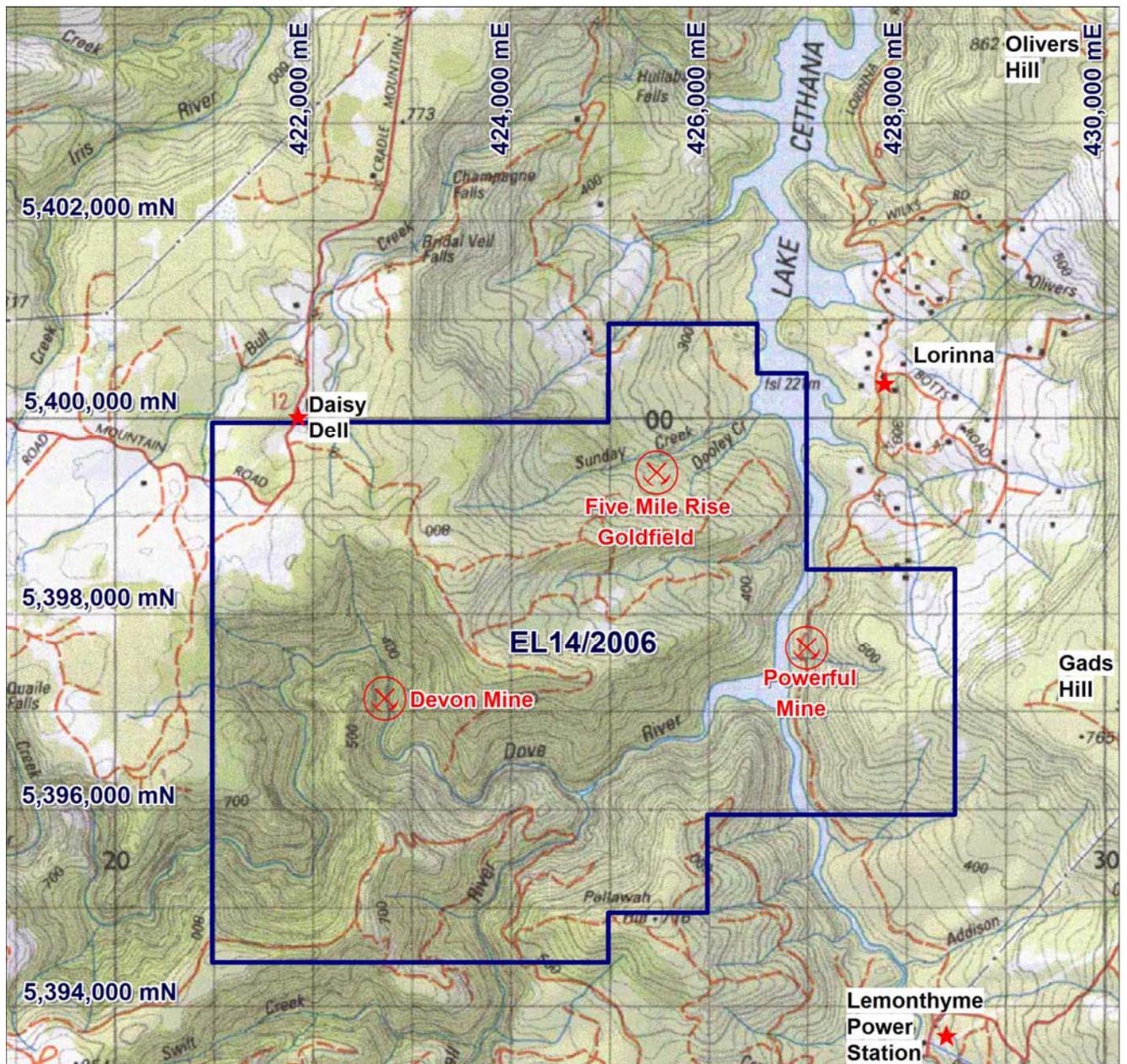


Figure 2 – Exploration Licence 14/2006 Dove River location and prospects on modified 1:100,000 Tasmanian government topographic base map.

Geology

EL 14/2006 (Dove River) is contained within the northern portion of the c500Ma Cambrian Mt Read Volcanic belt (MRV). The MRV comprises mainly acid and lesser mafic volcanics and associated intrusive rocks. The MRV unconformably overlies Proterozoic metasedimentary rocks and, itself is unconformably overlain by Cambro-Ordovician siliciclastics and limestones. Rocks to the north of the Dove River Licence are intruded by the Devonian Dolcoath Granite.

Palaeozoic and Proterozoic rocks may be covered by outliers of Permian sedimentary rocks and there is a variable veneer of Tertiary basalt, sedimentary rocks and sediment.

The Mt Read Volcanic belt is highly mineralised. It contains numerous and some very large polymetallic VHMS-style deposits (e.g. Hellyer, Que River, Rosebery) and volcanogenic porphyry-VHMS hybrid copper-gold deposits (eg. Mt Lyell, Henty).

The Dove River area is dominated by Proterozoic schists in the south with younger Cambrian, Ordovician, and Tertiary rocks typically progressively exposed northwards. Very little detailed work has been undertaken in the current licence area. A description of the known lithologies and observed variations within the licence and potential correlations are summarised below.

Precambrian schist

The oldest rocks in the area are Proterozoic schists of the Tyennan block. The schists are typically light grey and strongly deformed. They are strongly foliated with a typically finely spaced crenulation cleavage evident as alternating mica rich and quartz rich lamellae. Bedding is rare but where observed in cut hand-specimen is isoclinally folded. Fold limbs are sheared parallel to the spaced cleavage. Kink banding is common. Bedding is rare in outcrop and then typically only on water-worn surfaces. Metamorphic grade is variable but not well defined. Very fine garnet of metamorphic origin is rare but indicates an amphibolite metamorphic grade. Reid (1967) describes these rocks as quartz-sericite schists and quartzites and indicates that there are areas of minor sulphide mineralisation and moderate alteration (typically haematitic).

Proterozoic schist borders the Powerful prospect and was intersected in the upper parts of the DR2 drill hole. The schists here are hematite and potassium feldspar altered, alteration clearly related to intrusion of the hornblende-biotite Dove granite and associated dykes. An intrusive contact between older Proterozoic schists and younger quartz-phyrlic granitic rocks is exposed upstream and west of the Devon mine in the Dove River.

Cambrian volcanics

The Cambrian volcanics within the Dove River licence area have not been assigned a formal correlation with the Mt Read Volcanic stratigraphy. It has been inferred they should be grouped with the Eastern Quartz Phyrlic Sequence (Corbett, 2003) or the Tyndall Group (Herrmann, 1989 in Fleming and Castro, 1989). More recent work by Pluton suggests that correlation with any one part of the MRV may be simplistic.

Lower felsic volcanics (vitric tuff ?)

The oldest Cambrian rocks in the Dove River area comprise fine-grained silica-rich (possibly shard-rich), massive bedded and cliff-forming sedimentary sequences. These rocks do not come into contact with the Proterozoic in the Dove River area, with the two packages separated by intermediate and felsic granitoids (Dove Granite). The lowermost part of this unit is exposed in cliff section west of the Devon Mine where more typical massive beds overlie a 20m thick unit of finely laminated siltstone.

Beds adjacent to quartz-porphry exposed at the Devon Mine are fine grained and cream or grey coloured. Dark-grey diffuse round spots to 15mm indicate hornfelsing. Bedding is more clearly evident in contact-metamorphosed rocks with concentration of spots subtly indicating beds of up to about 75cm. The unit was originally mapped by Jennings (1963) as Precambrian schist. However, the unit lacks the foliation and folding evident in Precambrian schists to the south. A generally northerly dip is, however, consistent with that observed in nearby volcanoclastic rocks to the north. As such, the unit is almost certainly of Cambrian age.

Correlation of this unit with rocks elsewhere is uncertain. Based on gross lithological character of probable vitric material derived from a more volcanic origin, it is similar to vitric tuffs of the Back Peak Beds described by Herrmann (in Fleming and Castro, 1989).

Mixed volcanic and volcanoclastic rocks

A progressively coarsening quartz-rich volcano-sedimentary sequence gradationally overlies the vitric tuff (?) to the north. This unit was mapped as Lorinna Greywacke on regional maps by Jennings (1963). This sequence comprises angular clast rich poorly sorted sandstone, pumecious sandstone,

and quartz rich volcanoclastic sandstones. Fine 'grain flow' greywackes and possible volcanics of near identical composition to the quartz rich volcanoclastics were observed in core from DR1. Based on reconnaissance mapping and drill core, there may be an increasing lithic component up stratigraphy. Beds may be laminated but are typically massive in outcrop. Differentiation between quartz-phyric volcanoclastics and quartz-porphyry can be difficult, particularly in areas of hydrothermal alteration. The unit is thought at this stage to be largely derived from water-supported mass-flow, preserving finer and more delicate biotite alongside much larger quartz and sometimes angular lithics. The prevalence of rounded quartz and biotite indicates a proximal origin, with material possibly derived from an extrusive form of the quartz-phyric porphyry exposed to the south.

Dove Granite

The Dove Granite is regionally mapped as three occurrences, one in each of the Mersey, Forth and Dove valleys. Montgomery (1893) remarked on the similarity between granite east of the Dove River licence (at Gads Hill) with Devonian Dolcoath Granite located north of the Dove River licence. In contrast, on visiting the Five Mile Rise Goldfield, Twelvetrees (1913) concluded that the granite showed greater affinity with other Cambrian age granites of the West Coast. In producing the last geological map and explanatory notes of the area, Jennings (1963) described a relationship of granite intruding what he thought to be Ordovician rocks. He concluded that the Dove Granite was Devonian. Radiometric K-Ar and Rb-Sr ages determined by McDougall and Leggo, (1965) firmly suggested the Dove Granite is Cambrian, albeit with some outlying Ordovician ages that were attributed to argon loss. Unfortunately, Jennings interpretation persists in citation through much of the literature and company reports until the 1980's.

The reality is that few workers completed little if any work on the Dove Granite. Pluton is the first company to systematically map and sample the granite, mainly to determine if the Dove Granite is of the right composition to produce copper-gold porphyry deposits. Work has yet to be completed on examining the geochemistry of granitic rocks in the Dove River area. This will be reported in subsequent years. However, based on petrography only, there are several different granitic rocks that can be identified. These are tentatively subdivided into:

1. Porphyritic and in places equigranular felsic quartz-biotite granite or porphyry.
2. Equigranular (quartz)-biotite-hornblende granite or granodiorite.
3. Hornblende granodiorite and/or quartz diorite.

Felsic quartz-biotite granite or porphyry

This rock is the oldest of the granitic rocks and would appear to bare the greatest affinity with the Cambrian volcano-sedimentary sequence exposed in the north of the licence. It is the 'granite-porphyry' of Smyth (1981) at Devon and is best exposed in the vicinity of the Devon Mine, forming much of the hill to the west and south. It crops out as a potassically altered porphyritic rock in the Dove River downstream from the Devon Mine and probably (based on quartz content) as a fine-grained equigranular quartz (possibly marginal contact phase) granite upstream and west of the Devon Mine. It may correlate with the coarse grained quartz-rich granite at the Powerful Mine. However, the level of potassic and propylitic alteration in this necessitates a close look at the rock on geochemical grounds before any conclusions can be drawn with confidence..

Where unaltered, the porphyritic granite comprises a pale grey to white fine-grained groundmass. Crystal components comprise ubiquitous rounded to hemi-pyramidal quartz up to about 8mm, typically strongly sericitised euhedral zoned plagioclase to 4mm, euhedral variably chloritised biotite, and rare well rounded potassium feldspar to 15mm. The rocks typically contain >70% silica. More equigranular versions of this porphyritic rock are known only from upstream of the Devon Mine, proximal to the contact with volcanoclastic rocks. Here, they are yellowish-white in colour, layered or

fractured, and comprise interlocking equigranular quartz and plagioclase, with interspersed finer-grained biotite.

A common trait of this rock is the well-rounded quartz phenocrysts. The rounding is possibly due to increased silica solubility with decreasing depth of intrusion, consistent with intrusion of the porphyritic rock at shallow levels within the Cambrian sequence.

The porphyry unit adjacent to the Dove Granite at the Devon Mine is typical of porphyries mapped elsewhere in the tenement. The inference has been made by Herrmann 1989, M.Vicary (pers. Comm.) that the porphyry at the Devon Mine correlates with the quartz-feldspar porphyries that intrude the Sticht Range Beds, the Back Peak Beds and the Precambrian units near Back Peak (figure 3). Such an association would suggest Cambrian Granite at depth in this location if the porphyry at Devon is a marginal phase of the Dove Granite as suggested by Herrmann 1989 and Jennings 1963.

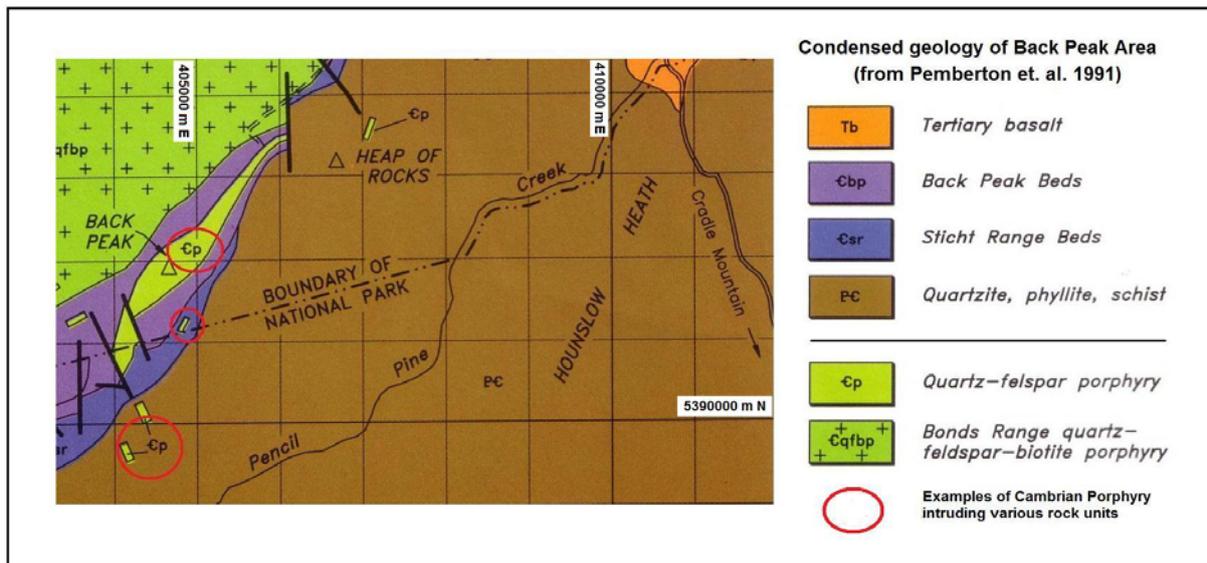


Figure 3 – Examples of Cambrian Porphyry intruding various units in the vicinity of Back Peak (modified from Pemberton et. al. 1991). *Coordinates in AMG Zone 55, datum AGD66.

The porphyritic granite is commonly altered proximal to the hornblende/biotite-hornblende granite(s) and is also of a more felsic composition. The quartz-feldspar-biotite porphyry phase may be an expression of partial melting of the felsic granite with very high silica.

Equigranular (quartz)-biotite-hornblende granite or granodiorite and the Hornblende granodiorite and/or quartz diorite.

These two granitic rocks can be differentiated on the basis that one is dominated by biotite with lesser or little hornblende, whereas the other is dominated by hornblende as the mafic mineral. The hornblende-rich rock typically occurs within the biotite-rich granite and the two may be a progression of the one rock unit. Potassic alteration of surrounding rocks is common proximal to these granites, in particular close to the hornblende granodiorite. The contacts with the quartz porphyry are commonly sharp and the quartz porphyry is commonly altered indicating it to be older.

The biotite (-hornblende) granite crops out on the access track to the Devon mine and in the river downstream of the Devon Mine. It comprises grey equigranular quartz-feldspar-biotite with rounded dark-grey biotite rich clots (possible xenoliths) to 20cm. Inclusions of laminated and altered rock (Proterozoic xenoliths) are rare.

The hornblende-rich rock crops out south of the Powerful Mine (but also possibly south of the Devon Mine) and in drill core from Powerful (DR3). The rock is medium grained, equigranular and visually similar to the biotite granite except for the prevalence of hornblende as the primary mafic component. The hornblende 'granodiorite' is commonly perceptibly magnetic in hand specimen which is consistent with classification as an I type magnetite series 'granite'.

Both rock types tend to be massive and xenoliths are potentially recognised in both units. More hornblende rich dioritic xenoliths were commonly identified in the hornblende granodiorite in the DR3 drill core, the origin of these xenoliths is unknown. There is also a perceptible concentration of sulphides within the more mafic clots in hand specimens of the biotite (-hornblende) granite, possibly indicating an as yet unrecognised mineralised intermediate magmatic phase within the granite suite.

Preliminary investigations indicate the granites (and associated extrusive rocks if present) to be high-K calc-alkaline to shoshonitic in composition. This composition is consistent with their forming at a convergent plate margin in an environment prospective for formation of porphyry-style copper-gold deposits. Detailed geochemistry is yet to be properly examined.

Owen Group

Conglomerate and sandstone sequences are regionally unconformable on Middle Cambrian volcanic rocks. However no true conglomerates occur at the base of the Ordovician on the licence. At Five Mile Rise the basal unit was observed in drill core and is a bioturbated coarse to pebbly sandstone. Overlying this is pale yellow fissile siltstone interbedded with fine and pebbly sandstones and minor shale. The sequence has been identified by several previous workers as Moina Sandstone. The sandstone dips gently (15-20 degrees) to the north-northeast forming a veneer over the Cambrian stratigraphy.

Several kilometres northeast of the Dove River licence, the Moina Sandstone is underlain by thick sequences of Roland Conglomerate. The absence of the conglomerate units on the licence may indicate extension north of Five Mile Rise in the late Cambrian. The structures controlling this facies variation may be coincident with northwest-trending aeromagnetic linears north of the licence.

Gordon Limestone conformably and gradationally overlies the Moina Sandstone just north of the licence near Lorinna. Both this and the Moina Sandstone were faulted during the Devonian Tabberabberan Orogeny.

Tertiary Basalt

The Tertiary Basalt at the Powerful prospect has been intersected by diamond drill hole DR2 in the current program. The basalt is a fine-medium grained vesicular dark rock with occasional zeolites and calcite veins. At Powerful, it is underlain by approximately 11 metres of probable Tertiary lake sediments. Herrmann in Fleming and Castro (1989) estimated Tertiary Basalt flows over much of the region to be only a few tens of metres thick.

Quaternary Glacial and Fluvial Deposits

Although not prominent in the main part of the licence there are surficial deposits of questionable fluvial origin on flatter parts of the Forth River valley that could be attributable to glacial action. These deposits are small and initial assessment suggests the sediments cover an area of minimal prospectivity.

Exploration History

The Dove River licence area was prospected for gold and silver-lead until the mid 19th Century.

James 'Philosopher' Smith discovered alluvial gold in the Forth River in 1859 near Golden Point approximately three kilometres north of Lorinna (Jennings 1963). Malcolm and Alex Campbell opened the first hard rock mine, Campbell's Reward, in the early 1880's on the east side of the Forth River. It was not until 1887 that a discovery at Five Mile Rise (previously termed the Middlesex Goldfield) was made by J Aylett at the "Great Caledonian" Mine (Reid, 1919).

A number of leases at Five Mile Rise were pegged around the initial discovery in the following year. However, the alluvial prospects proved of little worth to the early miners. Montgomery (1893) described the alluvial workings as shallow, suggesting that no great depth to the auriferous wash probably accounted for the quick demise. Hard rock sources were soon located and developed by underground workings on the auriferous lodes. The lodes were gold rich in the oxide zones near the surface with gold not recoverable from the sulphide lodes at depth using techniques available at the time. By 1891 work had all but ceased on the gold field due to the rush at Bell Mount to the north (outside the licence area) and only three mines returned to production before work again ceased in 1901 (Jennings, 1963).

James Smith later discovered a galena lode SW of the site of the Devon Mine and Malcolm Campbell located the Devon Lode in 1897 (Reid, 1919). The Devon Silver-Lead Mining Company NL acquired the lease from Campbell later in 1897 (Jennings, 1963) in the form of four sections covering 40 acres. The Devon Mine and Five Mile Rise mines were operated at several times in the 19th Century with the most advanced activity at Devon, a detailed description of workings is given below.

Description of Workings

Five Mile Rise Goldfield

Six prospects on the Five Mile Rise mineral field constitute the main hard rock workings. These are the Great Caledonian, Glynn, Thistle, Golden Hill, Golden Cliff and Union Mines all of which were originally developed between 1887 and 1901. There are other workings mentioned in the area, although details of these prospects are uncertain. The only form of exploration on these prospects as individual targets has been by prospecting via adits and shafts. All but the Great Caledonian were accessed by adits, with the flat ground around the Great Caledonian only allowing access by a shaft.

All the lodes in the goldfield are said to occupy small faults that strike at approximately 140 degrees. The lodes outcropped as gold rich rubbly gossans and passed into mixed sulphide ores at depth containing silver-lead and pyrite with accessory chalcopyrite, arsenopyrite, gold, sphalerite and sometimes bismuthinite. The veins are irregular in width and extent and only enriched as gossan at surface. They occupy tension cracks which are sympathetic in width to, but do not generally cause replacement of, the variable lithology within the Moina Sandstone (Jennings, 1963).

Mineralisation is reported to extend below the Moina Sandstone host rock in several cases, for example Johnson's Reef is said to be approximately 300m south of the Great Caledonian workings and the host rock is described as being decomposed greenish "granite" and the main outcrop as "largely dense haematite". The description of the host rock in the deepest levels of the Great Caledonian is the same. At the Union Mine the lodes are said to pass into haematitic quartz lodes at depth. At Golden Cliff the bottom adit was driven into the sub-Ordovician country rock, however the lode was never met with.

Twelvetrees re-examined the Five Mile Rise Goldfield in 1913. The workings were abandoned, however by 1919 when Reid visited Five Mile Rise the Thistle mine was once again being worked for galena ore and alluvial gold was also being intermittently taken from O'Rourke's 'Hydraulic' lease.

Deposit Name	Size(tonnes)/ Production(oz)	Deposit Form ; Strike and Dip	Max. Width	Commodities Recovered	Gangue Minerals	Comments on development, history and sub-Ordovician mineralisation
Great Caledonian	Small ~200t crushed/ ~100oz	Several ferruginous veins of 'rubbly sandstone' / Unknown	30cm?	Gold	'Cellular silica' (Twelvetrees, 1907), limonite and quartz	Accessed by shaft with a cross-cut and winze, possibly driven by O'Rourke from cliffs to the south, dewatering attempted once (1933 – Nye). Mineralisation reported in Ordovician host and Cambrian 'Granite' deeper in the workings (confirmed presence in mullock, Reid, 1919). Considered sub-greywacke of the 'Lorinna Formation' (Robinson pers. comm. in Jennings, 1963).
Glynn	Probably a little over 100t / 19oz+	Vein; Strikes west of north and dips steeply west (Harcourt Smith, 1898)	90cm	Gold	Silver	An open cut near the head of Sunday Creek (tributors workings of Smith, 1898) and separate shaft later connected by a winze from the tributors workings. An adit 7.5m below the open cut intersects the lode at 15m. A five head battery was established 7.5m above big creek. The gold is argentiferous and there is no mention of connection to the Cambrian basement.
Golden Cliff	Small/ Unknown, probably <50oz	One main vein, possibly others ; 330/-40W (Twelvetrees, 1913)	10cm	Gold	Arsenopyrite, manganese, quartz (MRT deposits database)	Narrow vein with grades to 42 g/t Au as free gold in oxide and in pyrite at depth. One shaft adjacent to Winspears Rd sunk from an open cut 4 foot wide 30 foot long and deep. Two adits, the upper of which is 18m and extends 9m beyond the lode. The lower adit 30m below is 36.5m long and has a short drive and rise at the end but did not intersect the lode. The lower adit is in 'dark mica granite' (Twelvetrees, 1913).
Golden Hill	Smallish >60t/ >20 oz	Three veins; Approx 140/80E	60cm and 90cm as gossan	Gold	Pyromorphite, quartz, pyrite and sphalerite (Smith, 1898)	An open cut and adit were constructed in 1898. The adit intersects three thin quartz-sulphide veins which pinch and swell along fault zones within the Moira Sandstone, The No.3 vein carries grades to 23g/t Au (Waller, 1901). A 15 head stamper battery originally located at the Great Caledonian was located at the end of a tramway below the mine and was used for crushing. Sulphides possibly replacing bedding adjacent to lodes. Silver and Lead reportedly extracted from lower levels of the mine (Askins, 1980).

Union	Smallish	One vein plus disseminated mineralisation 162/-75E	60cm	Gold	Chlorite, quartz, galena, sphalerite (main lode) Hematite and pyrite (porphyry hosted lodes)	Established pre-1893 by the Campbell Brothers, worked by E.C James again in 1917. 3 shafts and an 80m adit with the last 18m reported to be porphyritic Cambrian rocks with sparse hematite veins containing up to 0.1% Cu. The main lode occurs on the faulted Cambrian – Ordovician contact at depth.
Thistle	Smallish	Three fracture filling veins / No.1 NNW/-80W, No.2 NNE/-85E, No.3 (largest) NNW/-65W	30cm	Gold, Silver, Galena	Quartz, sphalerite, arsenopyrite, pyrite and minor chalcopyrite (Askins, 1980)	Discovered by the Campbell Brothers and originally worked for gold on the rich gossanous 'joints'. Later worked for small amounts of galena in the unoxidised portion of the lode (Reid, 1919). Galena was argentiferous and included trace gold and a peak of 14.5g/t in No.1 lode. Two adits (upper and lower - longer) and a number of shallow shafts and trenches (Askins, 1980). Lodes numbered 1-3 (E to W).
O'Rourke's Hydraulic	Significant proportion of gold from the field (>100oz?)	An area of wash approximately 155 metres long, 3-3.75 metres deep and 40-60 metres wide.	Alluvial (see form)	Gold	Quartz (sometimes attached to gold)	Coarse angular talus worked over three creeks 'in the vicinity of the Union mine' (Jennings, 1963) and east of Glynn Mine (Harcourt Smith, 1898). A dam on 'Big Creek' and water race then piped water to site with less than hydraulicking pressure. Instead water was used to wash the gravel in a long sluice. The area had been worked to within twenty metres of the small dam feeding the 'pressure main' in an attempt to locate the source reef (Waller, 1901). The angular nature of the gold suggested short deposition distances, however no source had been located (Harcourt Smith, 1898)

Table 1: Summary details of individual prospects in the Five Mile Rise Goldfield

Devon Mine

The Devon Mine was mined for galena from clean 7 to 40cm veins producing high grade hand picked argentiferous lead. Consequently the Devon Mine has long been considered and reported as a lead-silver deposit, however appreciable gold and copper grades accompanied the lode material and the mixed sulfide portion of the lodes and any associated disseminated sulphide was never recovered. The mine was the only prospect in the district to pay it's way despite the restrictive location and associated transport costs of horse-packing it's clean galena ore to market.

Reid (1919b) reported that 172 tons of galena ore was produced from the Devon Mine to May 1899 and Twelvetrees indicated that 290 tons of silver-lead ore was produced since 1899 suggesting a total production of 462 tons to June 1907 including production of 25 tons since November 1906. Production at the mine continued sporadically until 1912 however dates overlap for the final production with 134 tons reported from March 1907 until December 1908, so $134 - 25 = 111$ tons more, so 573 tons as a maximum total to Dec 1908. This disagrees with assessment of Nye who appears to have missed some of the production between September 1902 and June 1907 and suggests a 397 ton total. Neville McCoy held a mining lease over the Devon workings in 1980 and may have made more recent production.

Harcourt-Smith visited the Devon Mine in 1898 which was then operated by the Devon Silver Mining Company, development at the site was being hampered by poor access. An adit had been driven 26 metres in a westerly direction approximately 7.5 metres above the river, a second adit (approximately 36.5 metres north and approximately 5 to 5.5 metres below the first adit) had been driven 7.5 metres in 1898. Drives were established in the orientation of the intersected lodes (north-south orientation) in the first adit and the second adit was also noted by Waller (1901) and associated workings are described by Twelvetrees (1907).

The lodes reported in the first adit are at the entrance (7.5cm of galena dipping west), at 12 metres (a narrow gossanous vein) and at 15 metres (23cm of galena with a NNE strike and an 80 degrees easterly dip - the Devon lode or No.1 lode). Harcourt Smith reported that the tunnel had been continued for 10.5 metres past the drive on the Devon lode at 15 metres. There was no further development on this main adit in 1901 when Waller visited, however the main lode had been driven south for 25 metres and north for 47 metres (later confirmed by Reid 1919b) and stopped out above the drive. Twelvetrees reported that it had only been driven 7 metres to the north (probably back filled) and 31.5 metres to the south in 1907. A 12 metre rise was put in on the south drive (Twelvetrees, 1907) and this was driven some 55 metres back to the north and stopped in from the 'level 1' adit below.

The Devon (No.1) lode is described as being 60 to 90 centimetres wide, typically with 38 centimetres of clean galena in the centre of the lode. Twelvetrees (1907) had noted the width varied from around 10 centimetres to 90 centimetres in outcrop and that very little galena (<2.5 centimetres) showed in the southern drive, however in the top of the rise from this drive the lode was carrying 10 to 13 centimetres of galena to the south and 7.5 to 10 centimetres going north, he also noted the outcropping lode took a more northerly strike at the northern end and has been proven to extend over 122 metres. Twelvetrees also believed that if the main adit was continued another 10m that it may intersect another parallel lode which takes the form of a gossan approximately 60 metres above the river level, bearing 9 degrees east of north and being sub vertical.

Apparently this development did occur because a second lode is described at 27.5 metres in Reid's account (1919b). This lode (No.2) is driven 9 metres south and 25 metres north where it branches, one vein of 5 to 7.5 centimetres of mixed sulphide ore being followed on 350 degrees for 23 metres and the other vein of 5 to 15 centimetres of good grade galena being followed on 025 degrees for 23 metres. A sample from the face of the north-easterly branch assayed 62.2% lead and 2884 g/t silver.

No stoping had occurred on this vein in 1919. The south drive on this lode exposed a little galena and chalcopyrite in porphyry.

A third poor quality lode is described at 38 metres and is driven on north and south for 6 metres, the gossan of this lode at surface assaying only 12g/t silver. The final length of the main adit was stated to be 52 metres (Reid, 1919b).

Lodes in the northern adit were encountered at 1.5 metres (this is a 7.5cm west dipping vein according to Twelvetrees and it probably equates to the west dipping vein in the entrance of the first adit) and at 7.5m where development was still occurring at the time of Harcourt-Smith's visit (1898). The development had found the lode barren for 3.5 metres to the south, however ore was being encountered again at 6.5 metres from the cross cut with up to 46 centimetres of galena with lesser chalcopyrite, in one place, however the lode pinched out to a "thread" in the drive floor. The lode is described as splitting in two at the end of the south directed drive with each vein only carrying around 10 centimetres of clean galena. The whole drive contains a little disseminated pyrite and stringers of galena in the wall rock (Harcourt Smith, 1898).

Twelvetrees indicated the main lode was cut at 21 metres in the northern adit (which is contradictory, so is either incorrect or is a further lode) and was driven 21 metres north and 44 metres south and that the lode was pyritic (which agreed with Harcourt Smith's description of the lode encountered at 7.5 metres). Reid later (1919) describes the No.1 lode as being intersected at 15 metres with drives north over 30.5 metres and south over 61 metres. The lode was also reported as being stoped out above and below the drive to the south for 30.5 metres before the lode pinches out.

In the northern drive on the No.1 lode a winze was sunk 5 metres from the 'flat sheet' and 5 metres down, the lode showing 18 centimetres of galena to the north, unfortunately water was encountered here. By the end of the northern drive (Twelvetrees, 1907) the lode is almost barren of galena with bands of quartz and 'gossan' only.

Reid (1919b) reported that from the end of the second adit a main shaft 2.5x1.25 metres has been sunk 30.5 metres deep on the No.1 lode to open up a third level and a ladder-way shaft 10.5 metres northward has been sunk to 23 metres, drives were reportedly developed north and south at the 18 metre and 30.5 metre levels (Reid 1919b) and a winze joins these levels (Nye, 1928). 7.5 to 18 centimetres of high grade ore was reported from these workings, however these were underwater when visited by Reid (1919b). This main shaft was being operated by means of a pumping and winding plant, the 4 inch pump controls the inflowing water and is powered by way of flow from the creeks on the opposite bank of the river, however continuous operation is not possible in summer.

The third level is also accessed by a shaft (according to Nye, 1928) which has been sunk some 21 metres deep from surface approximately 33.5 metres (Twelvetrees, 1907; 46 metres according to Reid 1919b) north of the winze. A drive has been directed south from the end of the shaft in an attempt to intersect the lode 12 metres below the bottom of the winze. Water was within 9 metres of the top when Twelvetrees visited (1907), however the lode had been encountered in this drive and apparently widened from 7.5 to 18 centimetres of galena.

Three other adits occur above the No.1 and No.2, two of which had been driven in recent years for prospecting purposes (Nye, 1928).

Despite the intensive work completed to extract lead and silver in the form of galena ore, historic assays for gold from the Devon lodes are very encouraging (Table 2) and make for an interesting target.

Sampler (date)	Sample type	Gold Values
Harcourt Smith (1898)	Selected lode material	Up to 4 pennyweights and 4 grains of gold per ton (~6 g/t)
Waller (1901)	Average gold grades from the 172 tons of hand-picked ore to 1901	5 pennyweights, 4 grains of gold per ton (~7g/t).
Reid (1919b)	Gossanous grab sample	Up to 20g/t Au
Hermann (1989), see modern exploration	Two lode samples (from mullock heap?)	3.6 and 6.3 g/t Au respectively

Table 2 – Assays for gold from various samples from the Devon Mine

The ore bodies are composed of mainly galena, abundant sphalerite and chalcopyrite and subordinate pyrite with a quartz-siderite gangue. The gold appears to increase proportional to the amount of chalcopyrite (Reid 1919b) and the lode in the northern shaft is banded suggesting open fissures with progressive precipitation. Oxidation of the ore down to river level has seen the development of cerussite, azurite and malachite. Gossanous samples may also have enriched gold values similar to the occurrences at Five Mile Rise.

At the time of Harcourt Smith's visit a small open cut on the original discovery some 18 metres above the workings had been developed, he indicated that this too had a bunched appearance with lodes occupying a fault surface with variable dilation. One other lode potentially occurs 61 metres south-west of the mine where Harcourt-Smith reported a manganese gossan which strikes NNW and dips easterly (similar to the Devon lode).

Another lode termed the diagonal lode is present in the northern end of the surface development and apparently runs into the footwall where it may join with the No.2 lode. Further up the hill approximately 15 to 25 metres west of the Devon lode there is a surface outcrop described as the 'big lode'. This may correlate with the No.3 lode in Adit No.1. An adit was also driven in 36.5 metres west during 1922-23 at a point some 15 metres above the No.1 adit. The Devon lode was not cut but a "wall" was passed through at 12 metres and a lode formation at 18 metres (possibly the diagonal lode). The adit must have terminated a short distance from the No.3 lode.

Sporadic production at the Devon Mine continued until 1912 with production ceased in 1913 when Twelvetimes reported on the mine for a second time. In 1916 the lease was abandoned despite the lodes being encountered in both adits and apparently in the northern shaft, this suggests that strike extent of the narrow clean galena shoots was limited. In 1919 Mr G.M.Day was extracting the remaining unstopped sulphidic ore and hoped to remove any gossanous material of commercial value (Reid, 1919b), he was also hoping to de-water the shafts if enough water was available for power generation during the winter.

In 1923 the Mt Farrell Mining Company picked up the lease over the Devon, however no production was recorded to 1924 when the lease was dropped. The workings were abandoned in 1928 (Nye, 1928). A small parcel of ore was then exported in 1937 (Jennings, 1963) and a mining lease at Devon was held by Neville McCoy in 1980, it is believed the area was made accessible by bulldozer track at this time.

Other mines

The Sirdar Prospecting Association's section was approximately 5.5 miles upstream of the Devon Mine on the Dove River (Waller 1901) and ~1 ½ miles SW of Devon in a straight line (possibly near the licence boundary), one small galena vein reportedly in the Precambrian schists has been driven

on for approximately 12 feet and 60lbs of galena extracted. A 'gossan' apparently outcrops on the north side of the river on this section.

A copper prospect in the schists upstream from the Devon Mine was also reported, these workings were known as the Welcome Home prospect and are located approximately 6 miles south west of the Devon Mine (outside the licence boundary).

The Silver Dove is also located downstream of the Devon Mine and is described as a 7.5cm pyromorphite vein in the Precambrian schist, this was driven for approximately 46 metres with no further encouragement (Reid 1919b).

The Powerful Mine is first referred to in Bulletin 14 (Twelvetrees, 1913) as Reardon and Days Mine. The mine is located approximately three kilometres south of Lorinna. The lode is in granite opposite the Dove River where it now enters Lake Cethana. The lode is comprised of quartz, specular haematite and pyrite. Two samples produced assays of 1.5 g/t gold and silver and no trace of gold and 6 g/t of silver. A bulk sample produced a trace of gold and 7.5 g/t silver.

Twelvetrees believed the lode was some 40-50 feet wide and strikes NW-SE with a 30 degree dip to the SW, however Reid (1919) considered the lodes to be proven 8-14 feet wide in the cuts. Four cuts or adits were driven on the lodes with 'granite porphyry' described between cuts three and four. The first three cuts are described as being 11, 18 and 25 feet, all of which are probably too short to describe the adit that leaves the Lorinna Road (originally the Pelion Road) south of the township. Pyrite is also said to be more plentiful where quartz is more abundant in the Powerful workings.

D. Davies' show is described as being a haematite lode in the Precambrian schist and is sketched on Twelvetrees' map to the south-east of Powerful. The lode is said to strike northwest and samples from a small pit revealed neither a trace of gold nor silver (Twelvetrees, 1913).

A further prospect probably in the northern half of Lorinna occurs '200m west of G.Sloanes house'. A 30 foot tunnel was driven on a specular haematite formation in quartz porphyry, the specularite attached to quartz said to be gold bearing. The vein is 6-8 inches wide with 2-3 inches of specularite. Granite sub-crop or float appears proximal to the prospect (Reid, 1919).

Modern Exploration History

Modern exploration began in 1965 when the area was examined by the Mt Lyell Mining and Railway Company Ltd, they were followed by Freeport 1973, Comalco and Shell 1974-1984 (with CRA managing from 1985-1987), RGC 1989-1990 and Rio Tinto Exploration 1995. Activities are summarised below.

Exploration in the Dove River licence area has largely focussed on locating tin, tungsten or fluorine mineralisation associated with the younger Devonian (Dolcoath) granite to the north. With little or no tin or tungsten mineralisation identified, the area has been largely ignored. Some effort went into locating gold mineralisation at Five Mile Rise in the Ordovician rocks, however the Cambrian rocks have not been systematically explored for gold.

Exploration for base metals finished before the discovery of the Cadia and Goonumbla deposits in the 1990's, and the understanding these deposits brought to porphyry exploration in eastern Australia.

MT LYELL (1965-1971)

Modern exploration began in 1966-67 when the area was examined by the Mt Lyell Mining and Railway Company Ltd as part of exploration for base metal or tin Mineralisation within EL8/1965.

The Mt Lyell Co. undertook an aeromagnetic survey and a regional -80# stream sediment survey for tin, copper and zinc. A close association between zinc and copper was noted regionally however

individual results were considered doubtful with known anomalous areas not all registering on the survey. Reid (1967) concluded that there could be real interest in the copper and zinc anomalies if it could be confirmed (by resampling) that the tenor of mineralisation at known localities such as Round Mount were not being identified.

Several areas were recommended for follow up stream sediments including the possibly anomalous copper in stream sediments (34ppm Cu) draining from the magnetic anomaly 12 (later aeromagnetic anomaly C) above the Powerful mine.

Particular anomalies were followed up by more detailed exploration consisting of soil geochemistry and geological mapping on grids and reconnaissance geophysical surveys with VHEM equipment and a magnetometer (Foster 1969).

Anomaly C (Powerful) was gridded, with a B-Horizon soil survey and a ground magnetics survey completed. A few high values (probably anomalous) of cobalt and zinc were located on the margins of the magnetic anomaly but were attributed to the breakdown of ferromagnesian minerals in the basalt. The magnetic anomaly was found to correspond well to the outcrop of Tertiary Basalt. The diffuse and variable signature associated with the anomaly was potentially explained by magnetite in quartz-haematite-gold veins, however the restriction to the outcropping basalt was not explainable.

Reid (1967) identified two locations where disseminated chalcopyrite and pyrrhotite occurred in 'granite associated porphyry' upstream from the Devon mine. Reid also located minor disseminated chalcopyrite in the Lorinna Greywacke on the southeast slopes of the Five Mile Rise.

Reid (1967) recognised that there were two ages of granite and therefore a possibility of two phases of mineralisation, the possibility of Cambrian mineralisation being remobilised in the Devonian was not precluded. Reid (1967) also mapped a possible fourth body of Dove Granite in the Dove River west of the current licence.

The part of EL8/1965 containing the current EL was relinquished in 1971. Later in the 1970's they concluded the probability of locating an economically viable deposit of their target type was low and relinquished the whole licence.

FREEPORT (1973)

Freeport's main target was porphyry copper mineralisation, but considered the chances of finding gold, tin and tungsten or stratabound lead-zinc-copper. They employed consultants Cundill, Meyers and Associates whose activities consisted of mapping, collecting rock chips and stream sediment sampling using -40# and -80#. Freeport's Licence was approximately the same area as the current licence.

Exploration was focused on the flanks and cusps of the granite due to identifying chloritic and kaolinitic alteration in the granite at the Powerful prospect associated with minor disseminated pyrite-chalcopyrite (Walsham, 1973).

Freeport erroneously thought the Dove Granite to be younger (Devonian) in age (Austin and Serim referred to Jennings, 1963) even though the previous tenement holder (Reid, 1967) had indicated a Cambrian age. Austin and Serim (1973) also prefaced their investigation with the assertion that the Five Mile Rise gold-sulphide deposits were related to granite intrusion, another assumption made by Jennings.

Freeport located significant copper anomalism in stream sediments and -80 mesh stream sediment sampling was found to be a reliable method for identifying areas of known anomalism and it was recommended that -40# was not to be used again. Rock chips assayed to 0.16% copper in fractures in the Dove River near the Devon Mine and several regional 600ppm copper samples were collected

from fractured granite and quartzite. One sample in quartzite from the east near the Powerful prospect assayed molybdenum to 160ppm, but despite these anomalous samples no follow up work was done.

Despite not following up the anomalous samples, several other prospective features for porphyry style deposits were identified by Freeport in the brief assessment of their licence. These features include quartz veining in the Precambrian quartz-mica schists that was observed to increase near the granite contact, occasional disseminated pyrite within biotite granite and biotite-hornblende granite and quartz porphyry (Lorinna Greywacke) with considerable chloritic alteration.

Freeport also identified hematite alteration in the "Lorinna Greywacke" and concluded that this was caused by the late stages of the Dove Granite with chlorite veins containing minor gold and base metals (Walsham, 1973). It was also noted that "there are signs at Mt Lyell that haematite gossans preface the existence of acid volcanic ore bodies" (Walsham, 1973) and that the considerable hematite alteration noted in the licence may indicate a similar setting.

The discovery of Eastern Australian porphyry copper-gold deposits came much later than the exploration by Freeport (who in 1973 recently opened and operated the Ertsberg porphyry copper-gold mine in Indonesia) and the features they identified may not have had a context suitable to keep their interest in the project. Based on their understanding at the time, they concluded it was unlikely that a Cu-porphyry ore body of a size that would be suitable for Freeport existed in the licence area. The EL was relinquished in 1973.

COMALCO (1974-1979)

The main aim of Comalco exploring the Moina area was to locate a fluorite body (magnetite-fluorite skarn) for their aluminium smelting needs, however investigations included the search for Sn, W, Au and Pb-Zn. Askins (1980) focussed on the broader area (488km² later reduced to 405km²) including 18 km² released in 1976 by the Mines Department. This large exploration licence covered the whole of EL14/2006.

Comalco's activities included a literature search, stream sediment sampling, rock chip sampling, colour air photo collection, a reassessment of airborne magnetics, geological mapping and selected prospects were gridded and soil sampled. Follow up work on grids included rock chip collection, ground magnetics and induced polarisation surveys.

Comalco suggested that gold and lead at FMR may be remobilised from volcanogenic base metal deposits and recommended an EM survey, however this was not done. Comalco also mapped the Dove Granite adjoining the Moina Sandstone at the Golden Cliff as previous workers had done. The level of alteration within rocks at this locality had even led Freeport (1973) and Jennings (1963) to conclude that the Dove Granite intruded the Moina Sandstone in this area. This strong alteration highlights the prospectivity of the Cambrian units in this area.

Future work identified by Comalco included follow up of copper and zinc anomalies in Olivia Creek, the Dove River, a tributary below magnetic anomaly 14 (Zarzatjian, 1966) and copper from streams draining magnetic anomaly 12 (Zarzatjian, 1966) above the Powerful Mine.

Significant results include four samples of Dove Granite (rock chips) that contained anomalous Cu, Pb and Zn. Eight other anomalous samples were taken from the Lorinna Greywacke, maximum values for all rock chips in these units were 175ppm Cu, 245ppm Pb, 245ppm Zn and 1500ppm F. Two -20# stream sediment anomalies of 65ppm Cu (60ppm considered anomalous using this mesh size) and one F anomaly of 950ppm were also found to drain the granite at the Powerful prospect. Like Freeport had experienced it was again recommended that a finer mesh size would be a more appropriate technique. Follow up work on select anomalies was then undertaken using -80#.

Stream sediment copper anomalism was defined in the Campbell River (to 375ppm Cu) using -80#, possibly attributable to weathered dykes intruding the schists that contain up to 340ppm in rock chip, this area was later relinquished by Shell in 1983.

SHELL (1980-1984)

EL7/1974 was joint ventured with Shell in 1980. The licence was still a large 405km² holding when Shell became JV manager.

Shell's focus was on cassiterite rich magnetite or pyrrhotite rich skarns. Mineralisation models for targets were wrigglyite skarn like Shepherd and Murphy and Renison style skarn. They had ancillary targets of coarse scheelite and stockwork greisens tin-tungsten deposits and sphalerite skarns adjacent to the Shepherd and Murphy Mine. Shell undertook a 250m line spaced helicopter-borne magnetics survey with 100m terrain clearance to explore for their primary target.

Shell also undertook -20# stream sediments (despite the evidence from two previous surveys that a finer mesh is more appropriate) and a more localised survey using -80#. Pb anomalies (65 to 245ppm) in stream sediments south of Five Mile Rise were believed to be sourced from veins or related to 'Devonian' Dove Granite emplacement rather than volcanogenic deposits and were not considered a priority target. Three -20# Pb anomalies were also identified in a tributary of Bull Creek near Daisy Dell in an area mapped as Tertiary basalt (Smyth, 1981).

Shell identified the "Lorinna East" bullseye anomaly adjacent to the Powerful mine as 'possibly a plug with a south dip'. They drilled one 200m long percussion hole into the bullseye anomaly. The lithologies intersected were Tertiary basalt to 58m, Tertiary clays to 80m, Pre-Cambrian schist with minor granitic veining to 200m. Susceptibilities in the basalt were considered too low to explain the aeromagnetic anomaly (Smyth, 1981). Remanent magnetism studies were meant to be done on these basalts. The conclusion was that remnant magnetism caused the anomalies even though the aeromagnetic signal 'could not be formational' according to the report and no evidence was tendered that remnant magnetism studies were done. The drill hole contained elevated Ba, Cu, Zn, however was not assayed for gold, despite being located adjacent to the Powerful gold mine.

The exploration licence area was reduced in 1984 but no work was completed on the prospects within the current Dove River licence area retained in the 7/74 licence.

CRAE (1985)

In 1985, CRAE became managers in EL7/74 in a three-way joint venture with the Commonwealth Aluminium Corporation (Comalco) and Shell. CRAE embarked on another very widely spaced reconnaissance stream sediment survey north of the current licence and reprocessed and reinterpreted Shell's aeromagnetic data. Exploration licence 7/74 was reduced in 1987 with the Dove River area dropped, with the joint venture maintaining tenure over the Moina fluorite deposit via Retention Licence.

RGC (1989-1990)

RGC originally picked up the EL8/1988 to look for economically viable gold or Renison-style tin mineralisation in the Moina Sandstone and Gordon Limestone associated with the Dolcoath Granite. During 1989-1990 RGC conducted exploration on the Five Mile Rise area as part of a program that compiled and assessed previous geophysical data and integrated it with new sampling, mapping and ground geophysics. EL8/1988's southern limit was approximately the northing of the Devon Mine.

A 20.5km grid was established at Five Mile Rise with an east-west base line and 15 north-south lines spaced every 200m easting. Mapping was completed from scarce outcrop and C-horizon soil samples taken every 25m in a north-south direction. Soil sampling was aided by a well developed soil profile

allowing representative samples to be taken. The grid was largely located over the Ordovician Moina Sandstone. Results were not reported until 1990.

A program of stream sediment and rock chip sampling was undertaken by consultant W.Herrmann for RGC in 1989. The stream sediment survey of approximately 160 sample sites was a regional program covering three other licences and EL8/1988 which overlaps with the current tenement. Fifty gram panned concentrate (from <0.5mm and >200 mesh fraction) and -200 mesh wet sieved fractions were collected at 20 locations within the current licence and assayed by Neutron Activation Analysis. Very high gold values were obtained from the sediments in the Five Mile Rise Goldfield. Moderate anomalism was obtained from the Powerful prospect area and moderate-high anomalism was recorded in a south draining creek, north of the Devon Mine. This anomalous sample was not repeated in the creek immediately to the east suggesting a local source (figure 1). The Dove River was excluded from the survey due to high water levels.

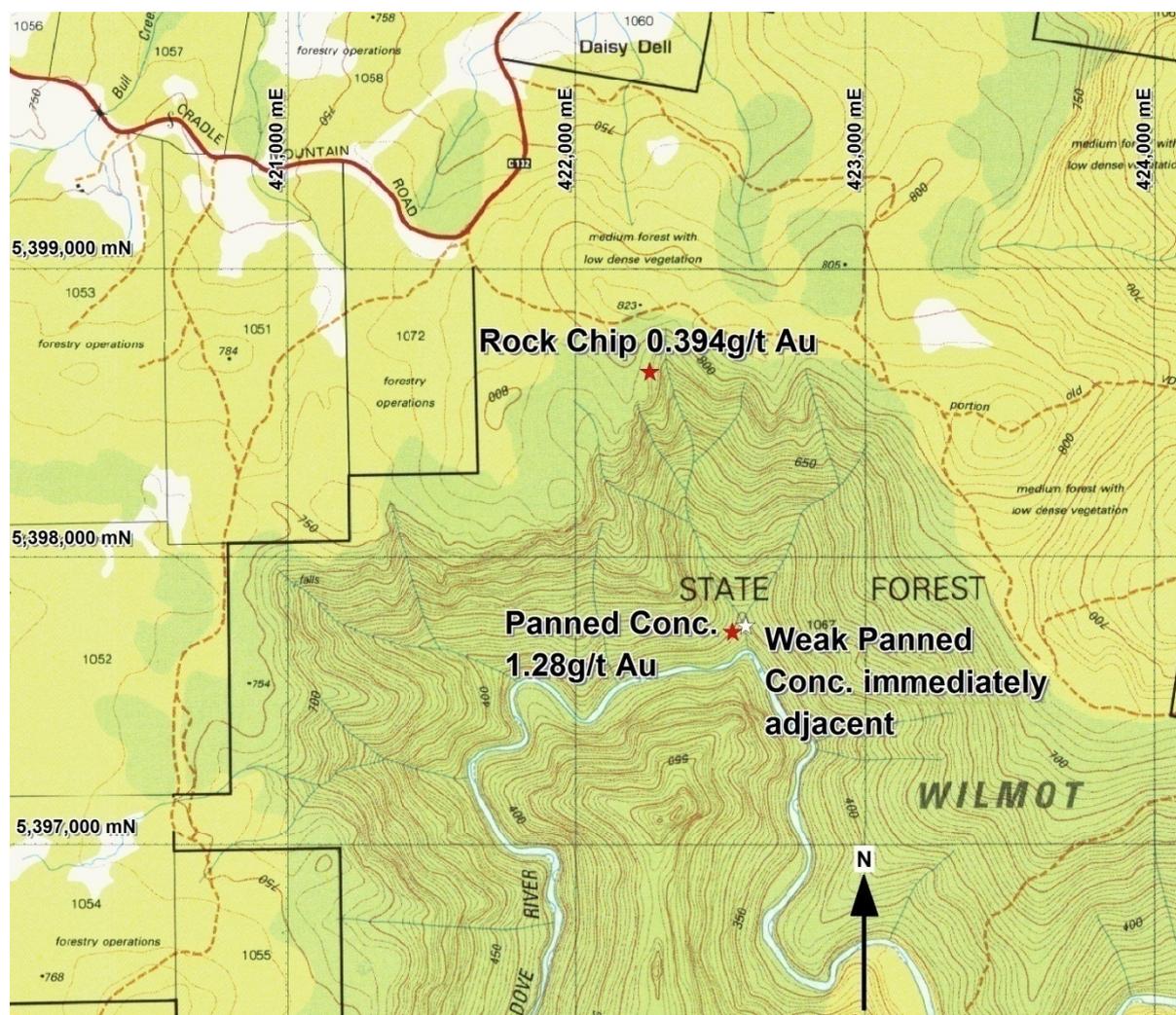


Figure 4 - Gold anomalous samples collected by Herrmann (1989) north of the Devon Mine

Herrmann (1989) also located two high grade gold, silver and base metal rock chip samples from the Devon Mine (3.6g/t Au, 428g/t Ag, 6.7% Pb, 1.95% Cu and 6.3g/t Au, 433g/t Ag, 7.8% Pb and 0.5% Cu) and a highly anomalous grade gold sample adjacent to the south draining creek north of the Devon Mine. This anomalous sample was from a NNW trending milky quartz vein with minor haematite. Despite this coincident stream sediment and rock chip anomalism the area was not further scrutinised (Figure 4), neither was the prospectivity of the Devon Mine. Two further rock chips from

the edge of Lake Cethana yielded low metal values, however one in the creek below Golden Cliff had gold to 0.093ppm.

Further rock samples (M prefix) were also collected but not assayed, these samples are believed to have been destroyed when Placer took over RGC (M.Vicary pers. comm.). 39 of these were taken inside in the current tenement, many of which have been duplicated by rock chip sampling this reporting year.

Results from the C-Horizon soil survey at Five Mile Rise (1989) highlighted geochemical anomalism coincident with IP (chargeability and resistivity) anomalies south of Five Mile Rise. The RGC geophysicist also noted that chargeability highs in part may coincide with Dove Granite at depths of only 100-150m. Drilling was recommended. However because RGC mistakenly thought all mineralisation (including that in the Cambrian rocks) was Devonian, the targets were never followed up. 41 rock chip samples were collected on the FMR grid over the Ordovician sandstones. Wacker bedrock sampling was recommended to follow up soil anomalies in the Ordovician rocks.

Castro and Fleming (1990) indicated that exploration re-focussed on geophysical methods rather than mapping and sampling as this data was previously completed in 1989. Ground magnetics and a gradient IP survey were conducted over the Five Mile Rise grid. Only reconnaissance mapping and sampling was conducted where soil geochemistry had indicated 'slight anomalism'.

A sub-regional magnetic gradient was defined on the Five Mile Rise grid. R.Deakin (in Castro and Fleming, 1990) interpreted the magnetic gradient in the north of the grid to be a slab of weakly magnetic rock with an equivalent intensity to the Dove Granite at approximately 100m depth and approximately 1km thick with superimposed individual 100-200 nT anomalies possibly reflecting basement highs. The ground IP survey did not define anomalous conductors, however several chargeability anomalies were defined at around 100-200m depth. Within Castro and Fleming's report (1990), R.Deakin reported on the survey and identified five chargeability anomalies and 6 drill targets which were never tested. Deakin also made the mistake of referring to the Dove Granite as Devonian.

After the geophysical surveys and final sampling were completed RGC decided that no further work was warranted in the Five Mile Rise area. This is probably due to their stated primary aim of locating economically viable gold mineralisation related to the Dolcoath Granite in the second year of exploration. The data collected was considered to be 'largely sufficient' for the assessment of the licence and the area within the current exploration licence (14/2006) was relinquished.

RIO TINTO EXPLORATION (1996-1997)

Rio Tinto acquired a new Exploration Licence - EL30/1996 covering 242 km² which is approximately eight times larger than the current EL but it included the whole current EL. The target style was sediment hosted fine grained sulphide poor Carlin or Sepon style gold. They were focused on the Ordovician Gordon Limestone and the Moina Sandstone where they are intruded by Devonian Granite

Rio Tinto took 12 -80# stream sediment samples and 12 panned concentrate samples. They found the Five Mile Rise area to be anomalous for gold and lead. Rio Tinto then reviewed RGC's soil and ground geophysical data for Five Mile Rise and decided that existing small workings were not a viable target of this type. The main reason for their withdrawal was the lack of conductors in the RGC survey. The licence was surrendered November 1997.

Work Completed

A comprehensive literature search has been followed by re-processing Western Tasmanian Regional Minerals Program data and previous exploration maps have been georeferenced for target generation. A large portion of the Dove River area has been mapped at a reconnaissance ~1:10,000 scale, rock chips have been collected at representative localities, however the mapping has not been compiled as yet. Three diamond drill holes have been completed, one on the Five Mile Rise and two targeting the magnetic anomaly adjacent to the Powerful prospect. The results from DR3 (the second hole near the Powerful Prospect) have not yet been received from the laboratory.

Reprocessing Data

The WTRMP magnetic and radiometric data were processed and evaluated. Weak magnetic highs were identified coincident with the two Dove Granite intrusive bodies. A strong magnetic low to the north of Devon Mine was also observed and a broad magnetic gradient increasing to the north of Five Mile Rise. Strong K-band radiometric anomalies were identified at Devon and SW of Devon, a weaker K band high was located west and south of bullseye magnetic anomaly at the Powerful prospect.

Soil data from the original RGC survey was re-entered and thematically mapped to locate zones of anomalous copper and gold in soils. The data has not been accurately located with respect to the surveyed lines, however points are located on the theoretical 25m spaced sample widths either side of the base line. Broad but significant copper anomalism has been defined in an east west orientation consistent with the mapped emergence of the Cambrian volcanics to the south of Five Mile Rise (Figure 5).

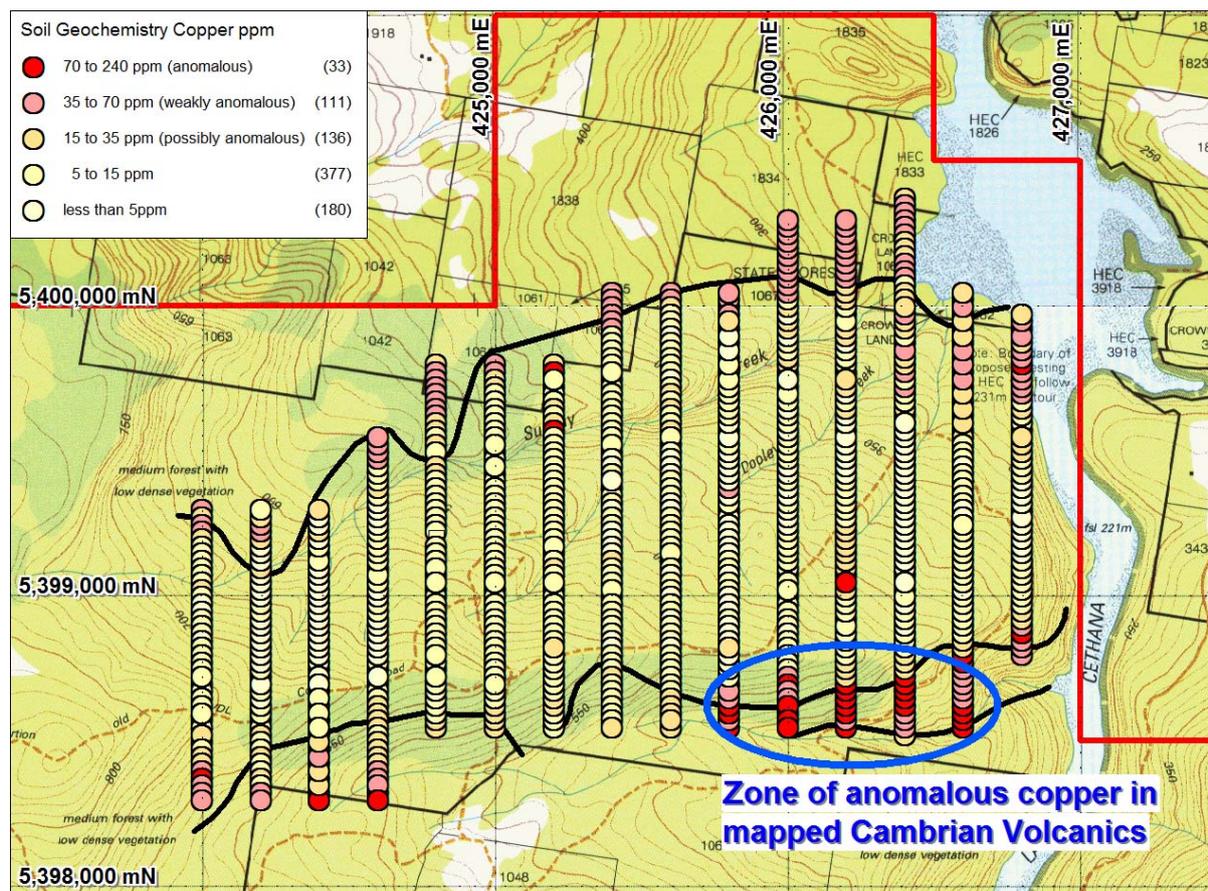


Figure 5 – Reprocessed 1989 RGC soil grid, thematically mapped for copper in soil. Mapped contacts in black show the limit of the less prospective Ordovician sedimentary rocks.

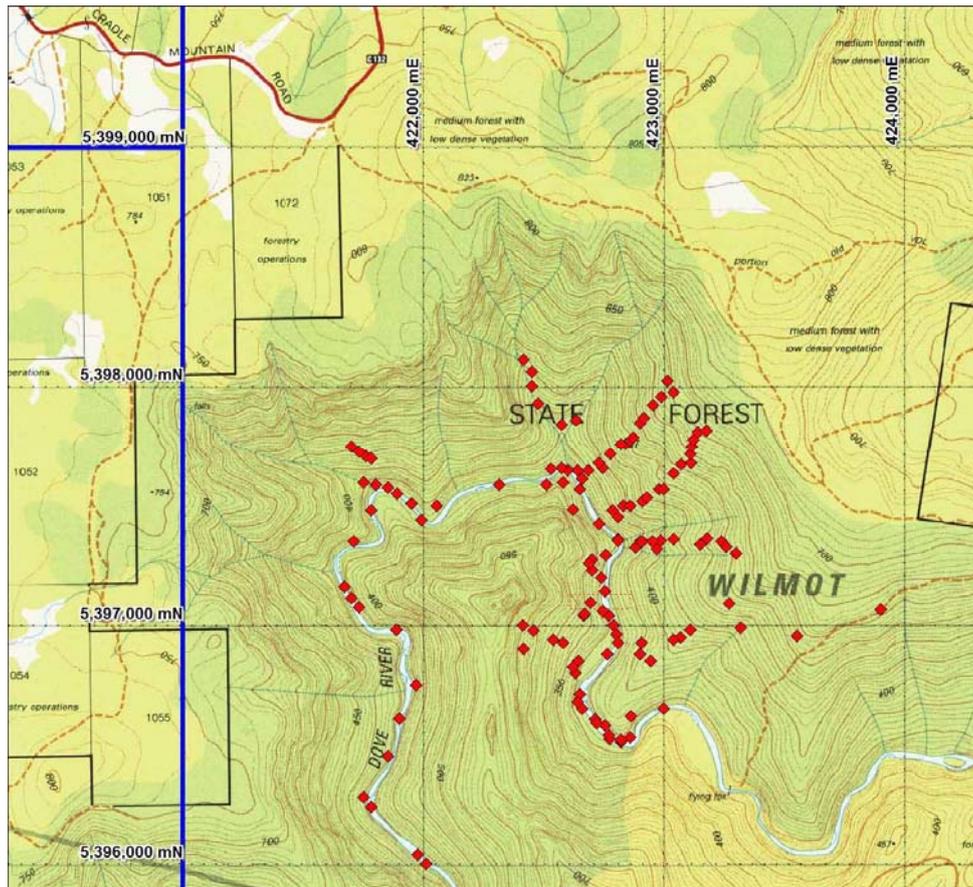


Figure 7 – Rock chip coverage (sample sites = red diamonds) from mapping near the Devon Mine.

The high grade samples taken from the Devon Mine by RGC were followed up by systematic adit sampling of the accessible workings. Rock chips were and also collected for lithological examination at a prospect scale to ascertain the alteration characteristics around the Devon mineralisation. The host rock type was clearly confirmed as porphyry with ubiquitous potassic and propylitic alteration along the length of the main adit (southern adit, approximately 8m above the Dove River). The main alteration assemblage consists of K-feldspar, sericite, chlorite and lesser carbonate.

The highest average grades were obtained from the drives and stopes on the lodes with average lead 2.4-12% and silver 72-500 g/t in the 'seconds' left behind in these workings. These results were accompanied by significant gold of 0.5-4 g/t and copper from 0.06-0.45% (average figures for each lode). Samples taken from the adits which 'cross cut' the lodes were variably anomalous for example the main adit averaged 0.1 g/t gold, 0.09% copper and 77g/t silver albeit influenced by peak values in the lodes themselves. Assay results from adit sampling are presented in Appendix 3.

Drilling

Three diamond drill holes were completed on EL14/2006 for 1177.1m. The three sites were easily accessible. DR1 was located on the apex of a tight corner of a large open forestry road requiring no site clearing, however large poly tanks were installed and water had to be pumped and carted from nearby creeks for drilling, all equipment and refuse was removed from site and moved to directly to the DR2 site as the same contractor was used.

DR2 required clearing of light vegetation from a previously disturbed site at the top of Pioneers Road south of Lorinna. The dry eucalypt forest had little undergrowth and the site had previously been used for firewood collection. The access up Pioneers Road was improved by grading and creating drains using a 20t excavator. The site at DR2 required the replacement of topsoil and slashed light

vegetation, however no major recontouring was required. The Pioneers Road access was graded after the removal of the drill rig and drains were cleared.

DR3 required a side cut into the slope of approximately 15x8m to create a drill pad adjacent to 'River Road' south of Lorinna, the road was temporarily closed for the purpose of locating equipment supporting drilling at this time. The DR3 drill site required replacing considerable soil and rock that was put aside from the cut in the embankment and the slope was recontoured into two rough benches. When the drill rig was removed from site all disturbance of road gravel was suppressed by grading the section south of the drill site to Lemonthyme Road. Various photos of staged rehabilitation of drill sites and roads are presented in Appendix 5. Despite drilling at a wet time of year the easy access to the sites has created little lasting disturbance and natural revegetation should suffice for rehabilitation at drill sites DR2 and DR3, these will be inspected on annual basis for the duration of the licence.

Diamond drill hole DR1 (Five Mile Rise)

DR1 was drilled east of the new Gunns road on the junction of the Gunns road and the old VDL Company track. The drill hole was sited primarily to test a very strong IP chargeability high identified by RGC in the late 1980's/early 1990's. This chargeability high coincides with weak to moderate copper soil geochemical anomalism in soils overlying Ordovician rocks and moderately anomalous stream sediment data collected from streams dissecting Cambrian rocks immediately to the south.

DR1 was drilled at 60 degrees from horizontal to a bearing of about 100 degrees magnetic. This east-southeast trend was chosen as being the most likely to intersect either northwest or northeast trending structures known in the area that might occur at depth.

DR1 intersected a sequence of altered and mineralized Mt Read Volcanic rocks from a depth of only 26m. Peak alteration (potassium feldspar) in DR1 is accompanied by visible copper mineralisation and gold anomalous sulfide veining.

Anomalous intersections include:

10m @ 0.11% Copper from 232m (peaking at 0.34% copper over 1m);

1m @ 1.13g/t Gold, 63.3g/t silver and 3.03% lead from 315m and

1m @ 1.37g/t Gold from 336m.

DR1 host rock types are sparsely lithic coarse pebbly volcanoclastic sandstone probably deposited as debris flows in beds tens of metres thick interbedded with thin lithic rich granule greywackes possibly deposited as grain flows.

The Cambrian lithologies in DR1 are potassically altered with well developed orange-pink K-feldspar. The disseminated mineralisation appears to be early and is of probable Cambrian age with some of the sulphidic veining potentially younger, probably related to Devonian remobilisation. This relationship is highlighted by some brittle faulting adjacent to the galena rich vein at 315 metres. The drill hole has an apparent increase in intensity of alteration down hole and a patterned zonation may provide a vector to mineralisation.

Diamond drill holes DR2 and DR3 (Powerful Prospect)

Two drill holes located southeast of Five Mile Rise at the Powerful target (DR2 and DR3) have also intersected intense porphyry-style alteration within the Dove Granite which is believed to be a potential source rock for mineralisation at Five Mile Rise.

DR2 and DR3 were both drilled to test weak K-band radiometric anomalism bordering a pronounced aeromagnetic bulls-eye high, south of Lorinna. This bulls-eye high had been tested by an RC hole

drilled by Shell in the early 1980's. The origin of the magnetic anomaly was not determined at that time, although assays of rock chips from the hole revealed moderate to high Ba and low to moderately anomalous copper. The results of the hole showed little potential for skarn-style mineralisation (Shell's target style), but are interesting in light of porphyry-like potassic alteration in granitic rocks near the Powerful Mine.

DR2 was drilled into the magnetic anomaly from Pioneers Road, the hole was collared in basalt, it passed through this into poorly consolidated sediments at 58m and then into Precambrian schist at 71m. The Precambrian schist was strongly altered from 90m to 98m with swarms of hematite-pyrite veins and pervasive alteration. The best interval yielded 1m @ 1.96g/t Au with 1.45g/t Ag. Peak copper in this 8m altered zone was 0.104%, peak cobalt was 197ppm. All these elements have an apparent correlation with iron which ranged from 10-47% in this zone. Several other 8-14m zones have >100ppm Cu adjacent to the granite contact. Granite dykes were intersected from 210m and the main quartz rich orange K-Feldspar altered coarse grained equigranular biotite granite was intersected from 260m. Copper, cobalt, silver and gold values were all low in the granite.

DR3 was also drilled towards the aeromagnetic anomaly from topographically lower down the ridge and was drilled northeast to intersect the main (largely inferred) northwest strike of hematite mineralisation at Powerful and to test anomalism recorded across all 5 WTRMP EM bands as well as in K-band radiometric data.

The lithologies intersected in DR3 are orange K-Feldspar altered coarse grained equigranular biotite granite with approximately 30% large anhedral quartz grains, this becomes highly altered at 98.8m with hematite and magnetite veining and strong K-feldspar alteration. Possibly intruding this coarse granite at 104.2m is a variably magnetic K-feldspar and silica altered xenolithic hornblende 'granodiorite' with typically <5% quartz and common weakly disseminated pyrite typically to 0.5%. From about 209m this unit becomes more propylitically altered. The propylitic alteration is characterised by pervasive chlorite and selective replacement of crystal phases by chlorite with associated epidote and carbonate veining. The intensity of K-feldspar alteration apparently decreases down hole with the increase in propylitic alteration.

No assay results have been received from this drill hole, however no conspicuous copper mineralisation was noted. The more intermediate composition of the 'granodiorite' is promising as porphyry compositions are typically more mafic than the other portion of the Dove Granite.

Magnetic Susceptibility

Magnetic susceptibility readings were taken on all drill core, a minimum of 5 and a maximum of 10 samples were measured for every 2m interval of drill core. Taking a minimum 5 readings over 2m instead of every metre allowed even moderately broken core to be assigned a representative reading. The peak susceptibility and the average susceptibility were taken from these readings.*Note all readings quoted in the text herein are $\times 10^{-3}$ SI units.

A hand held Exploranium KT-9 Kappameter was used in "no pin mode" to collect readings from cut drill core. The KT-9 was set to the nearest 1cm diameter setting on uncut drill core to take account of the geometric correction required for true susceptibility readings. Readings were made away from susceptible materials with the drill core removed from the trays and read away from the metal racking. All metal material was removed from the operator eg: watches and magnetic scribes etc.

Significant magnetic variability was identified in the Moina Sandstone intersected in DR1, with readings typically very low - usually -0.5 to 2. The apparently haematitic coarse basal unit has a distinctly elevated susceptibility relative to the rest of the unit. The susceptibility of the Cambrian volcanoclastic sequence in DR1 was also quite variable, possibly due to detrital magnetite grains or individual veins. This being said there appeared to be an overall relationship between alteration and magnetic susceptibility, with haematite rich alteration showing no distinct character, however large

specular haematite veins typically had susceptibilities of approximately 0.8. Potassic alteration marked by orange (probable orthoclase) alteration gave a consistently higher average susceptibility than weakly altered zones.

The next peak magnetic susceptibility (7.65) was in the black fine angular lithic rich unit where it appears to be coarsest, K-feldspar or similar light brown silicate alteration is present and lithics appear to be magnetised (some have dark rims around green cores). The next peak (58.5) in a zone of high susceptibility between 208 and 232m is associated with visible magnetite in dark green alteration patches in a medium brown-orange (silicate/K-feldspar altered) volcanoclastic sandstone adjacent to grey quartz rich lithic poor volcanoclastic sandstone with disseminated sulphide mineralisation. The next peak (14.3) was associated with similar brown silicate/K-feldspar alteration with a dark green pervasive chloritic alteration of the matrix (probable propylitic overprint), note that the lighter pink K-feldspar alteration with dark red haematite stain away from veins adjacent to this magnetic alteration is not magnetically susceptible. This provides some evidence that magnetite is commonly present with chloritic alteration or more intense potassic alteration possibly indicated by the darker colour of the brown/orange silicate alteration.

The main zone of increased magnetic susceptibility within DR1 occurs deep in the hole after the probable brittle fault that contains the massive galena vein at 315m. Typically the alteration in this zone is dark brown (potassic and chloritic alteration with a sericitised crystal phase), where susceptibility readings are highest there is a distinct darker colouration due to magnetite in the matrix. Magnetite also occurs as veins at the peak susceptibility reading which is coincident with peak gold values near the end of the hole at 336m.

DR2 and DR3 were less carefully scrutinised due to less variability in alteration style. The Tertiary basalt intersected in the top of DR2 had average magnetic susceptibility readings of 2.06 – 6.78. The last two intervals of basalt had higher readings (9.23 and 14.7), probably indicating partial magmatic differentiation of magnetic minerals into the base of the flow. The Tertiary clays below the basalt have low susceptibilities of around 0.2-0.5. The Precambrian schist was also only weakly anomalous (0.05 – 0.5) except for zones of hematite alteration eg: 90-98m with elevated magnetic values (1-2). The quartz rich granite intersected in the bottom of the hole displayed more marked variability with susceptible zones (2-5) typically associated with fine magnetite veins to 0.5% in K-feldspar altered zones. The less altered granite contained much less susceptible rock (0.2-1).

DR3 collared in a granite of strikingly similar composition to that in DR2, however the level of alteration can be inferred to be stronger on the basis of elevated magnetic susceptibilities (typically 2-6 with occasional higher average readings). The peak susceptibility in this more felsic unit (43.1 average over 2m) can be attributed to magnetite bearing hematite vein swarms possibly emanating from the more magnetic and intermediate composition hornblende bearing 'granodiorite'. The granodiorite intersected below 104.2m is moderately to strongly magnetic (typically 4-20), however there are elevated peaks associated with pure magnetite veins (individual values to 536) and subdued zones of intense silicification (typically 0.2-1 eg: 328-330m) which may be an example of late magnetite destructive alteration within the unit.

Discussion

The following is a discussion of the assumptions made in previous exploration regarding the age of source rocks and mineralisation ages. The mineralisation model provides a summary of regional prospectivity indicators and other relevant features within the licence that highlight bulk tonnage copper-gold prospectivity.

Age of the Dove Granite

The Dove Granite was interpreted by Jennings (1963) to be a Devonian Granite. Subsequent potassium-argon dating undertaken by McDougall and Leggo (1965) gave a Cambrian (Ordovician or older) age. The misconception that the intrusive bodies were Devonian was adopted by many subsequent workers including Austin and Serim (Freeport, 1973) and Smyth (Shell, 1981).

Age of mineralisation

Mineralisation at Dove River spans two geological events (Cambrian and Devonian). The mineralisation of Ordovician rocks in the Five Mile Rise goldfield has long been considered Devonian due to the obvious emplacement of lodes in typical Devonian trending structures. These lodes were generally considered by explorers to be genetically related to the Dolcoath Granite. The Dolcoath Granite is modelled to be at significant depth (based on sparse gravity stations) and anomalous gold is more typically associated with tin and tungsten anomalism near this granite. Indeed, gold and base metal mineralisation may rather be a product of orogenic remobilisation of metals from the underlying mineralised Cambrian basement rocks. This latter conclusion is consistent with DR1 intersecting copper and weak gold mineralisation associated with Cambrian porphyry-style potassic alteration in Cambrian rocks underlying the Five Mile Rise Goldfield.

Mineralisation Model

The style of mineralisation targeted in the Dove River exploration licence is a bulk tonnage copper-gold system related to the Cambrian Dove Granite. The granite intrudes and alters (possibly coeval?) Cambrian volcanics and older Precambrian schists and phyllites. The licence includes two of three known granite 'stocks' and porphyritic intrusives have been identified at the margins of both of these granite bodies. This has provided sufficient encouragement to investigate the potential of locating bulk tonnage copper-gold mineralisation of either an Eastern Australian porphyry style (eg: Cadia) or a disseminated style similar to the Mt Lyell deposits in Tasmania.

Mineralisation of porphyry style is usually associated with oxidised magnetite series sub-volcanic intrusions (Wilson et. al. 2002). Pluton has been encouraged by the presence of magnetite series hornblende granodiorite on the licence. The Eastern Australian porphyries are typically moderate grade alkalic systems however mineralisation may also manifest as higher grade smaller tonnage systems. A high-K calc-alkalic porphyry system developed in the apparently more calc-alkalic and shoshonitic Mt Read Volcanics would be a likely scenario given the inferred arc-continent collision setting. A higher grade deposit of this style would be conducive to being developed by block cave mining techniques.

Tasmania has numerous volcanic hosted copper deposits within the Mt Lyell mineral field. Examples of these vary from disseminated pyrite-chalcopyrite VHMS systems to more characteristic high sulfidation style deposits which are commonly associated with large scale faults. More recently, mineralisation at Mt Lyell has been identified as an example of the transitional nature of deposit styles and a hybrid mineralised body should not be overlooked as a possibility.

Within the Mt Read Volcanics there is a recognised break between copper-gold rich deposits to the south and east of the Henty Fault with lead and zinc rich deposits located to the north and west. Located east of the Henty fault, the Dove River exploration licence is in a location prospective for copper-gold mineralisation.

Potential deep crustal structures have been identified in airborne magnetic data to the north of the licence and are associated with variations in thickness within the basal Ordovician stratigraphy. These deep structures are important conduits that may concentrate fluids or focus the intrusion of stocks. Thickness variations across structures in the vicinity of the Devon Mine indicate activation during sedimentation and these structures are ideal foci for fluid movement during granite intrusion or could focus porphyry intrusion. Other potential major structures include a strong magnetic gradient transecting the Five Mile Rise from northeast to southwest.

Regional geochemical anomalism suggests that a buried porphyry system is a real possibility, with some encouraging anomalism in the region. Stream sediment surveys include several sites of anomalous copper, fluorine and one molybdenum anomaly draining from the Powerful prospect. Fluorine anomalism is typical of porphyry deposits and fluorine enrichment is also known from magmatic fluid input in high sulphidation systems. Copper and molybdenum anomalism may be a direct indication of porphyry mineralisation.

Porphyry copper deposits are almost always associated with a high concentration of iron oxides, typically magnetite and haematite. This is due to I type magmas being high in iron, which is consistent with preliminary indications of the geochemistry of the Dove Granite. Magnetite has been identified in close association with Au bearing sulphide veins (for example in DR1) and haematite alteration and veining is prominent at the Powerful prospect and in volcanics immediately south of Five Mile Rise. Regionally, gold mineralisation is also located marginal to haematitic alteration and porphyritic rocks at the Ten Mile Creek prospect (Funnell and von Strokirch, 1987) to the west of the tenement. The presence of these oxide minerals is important because it indicates a high oxidation state of parent magmas that allows greater sulphur solubility in the melt.

Phyllic alteration is a characteristic of the high-K calc-alkalic porphyries and is recognised by abundant quartz-sericite-pyrite. Mapping alteration may identify phyllic and peripheral propylitic alteration adjacent to or above mineralised potassic zones. The phyllic alteration haloes around mineralised porphyries can also be recognised by Induced Polarisation surveys as highly chargeable zones. This peripheral disseminated pyrite mineralisation can be a good indicator for proximity to mineralisation. Narrow zones of disseminated sulphide have already been located in DR1 which targeted a chargeability anomaly.

Anomalous potassium radiometric signatures are present in the WTRMP data both in this and the surrounding Pallawah Hill tenement. Potassic alteration typical of porphyry alteration systems has been identified in the field at Powerful prospect, Devon and elsewhere around the Dove Granite. It is believed the multiple occurrences of this alteration style upgrades the chance of locating a viable porphyry deposit.

Expenditure

The proposed expenditure to Mineral Resources under the application for the exploration licence was \$30,000 over the first two years. Statutory requirements mean that this report must be submitted before the first anniversary of the exploration licence. As such, the expenditure detailed below is for the 9 months to September 2006.

Geology	\$ 75,328
Geochemistry	\$ 47,094
Drilling	\$ 325,449
Rehabilitation	\$ 8,950
Administration	\$ 50,283
	—————
Total	\$ 507,104

Conclusions

The Dove River exploration licence has considerable untested potential to host bulk tonnage copper-gold deposits. The alteration styles (potassic and propylitic alteration) and the mineralisation style (disseminated copper and gold-sulphide veins) intersected in drilling provide confirmation that the region is capable of producing mineralisation of a probable porphyry style. The challenge is to find an area of concentrated mineralisation and to find geochemical, alteration and geophysical vectors to target such mineralisation.

Pluton will continue to focus on adding value to the Dove River licence by demonstrating the potential for large-scale porphyry-style mineralisation in proximity to the Cambrian Dove Granite.

The variation of lithologies within the Dove Granite and associated porphyry indicates there are a range of compositions within the intrusive Cambrian rocks. The intermediate 'hornblende granodiorite' phase of the Dove Granite intersected in the lower part of drill hole DR3 may be a more suitable source rock than the more felsic granite phases, however geochemistry for this hole has not been received and a regional geochemical assessment will accompany map preparation in the forthcoming year.

Future Work

The upcoming field season will concentrate on drilling at the Devon Mine and surrounding anomalous porphyry, granite and volcanics. The program will test the down dip and down plunge extent of mineralisation and the anomalism in nearby rock chips.

A single drill hole is planned for the Five Mile Rise and the location of this will be confirmed after field checks. A broad copper anomaly in soils mirroring the mapped Cambrian volcanics south-east of Five Mile Rise is the likely target.

The comprehensive collection of geochemical data will be assessed for possible alteration vectors and will aid map compilation during the next tenure year. Ongoing mapping and collection of rock chips suitable for whole rock analysis will hopefully define the continuity of the Dove Granite on the western side of Lake Cethana.

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Appendix 1 – List of digital files

EL14_2006_200711_01_Report.pdf

EL14_2006_200711_02_RockChipLocations.txt

EL14_2006_200711_03_RockChipChemistry.txt

EL14_2006_200711_04_DevonMineAssays.txt

EL14_2006_200711_05_DrillLogs.pdf

EL14_2006_200711_06_DH_Assays.txt

EL14_2006_200711_07_DH_WholeRock.txt

EL14_2006_200711_08_DH_REE.txt

EL14_2006_200711_09_DrillLogCodes.pdf

EL14_2006_200711_10_Rehab1.jpg

EL14_2006_200711_11_Rehab2.jpg

EL14_2006_200711_12_Rehab3.jpg

EL14_2006_200711_13_Rehab4.jpg

EL14_2006_200711_14_Rehab5.jpg

EL14_2006_200711_15_Rehab6.jpg

Appendix 2 – Rock Chip Geochemistry

Spl_ID	Au_ppm	Ag_ppm	Al_%	As_ppm	Ba_ppm	Be_ppm	Bi_ppm	Ca_%	Cd_ppm	Ce_ppm	Co_ppm	Cr_ppm	Cs_ppm	Cu_ppm	Fe_%	Ga_ppm	Ge_ppm	Hf_ppm	In_ppm	K_%	La_ppm	Li_ppm	Mg_%	Mn_ppm	Lab Batch
129301	<0.001	0.15	5.92	1.6	780	3.39	0.12	0.73	0.06	93.1	9.4	54	3.88	6.4	2.37	18.8	0.36	4.1	0.032	3.98	46.8	16.8	0.99	385	BR07033115
129302	<0.001	0.08	6.79	13.6	850	3.87	0.67	1.31	0.04	90.8	16.5	74	3.62	42	3.13	20.4	0.3	4.2	0.033	3.27	48	23.6	1.44	411	BR07033115
129303	<0.001	0.15	6.88	5.5	1030	3.46	1.35	1.61	0.08	77.9	13	98	3.66	26	3.56	21	0.31	3.3	0.062	3.63	43.7	22.9	1.92	547	BR07033115
129304	<0.001	0.12	6.82	4.1	880	2.65	0.09	1.66	0.32	82.2	10.3	62	1.56	8.1	2.81	16.95	0.28	3.3	0.026	3.35	45	16.4	1.19	460	BR07033115
129305	<0.001	0.14	6.94	0.7	930	3.36	0.12	2.36	0.06	96.6	15.1	82	3.46	10.2	3.94	20.3	0.29	3.2	0.047	3.11	54.3	20	1.8	488	BR07033115
129306	<0.001	0.09	5.83	0.2	720	2.19	0.04	2.05	0.02	62.4	6.6	49	9.36	3.2	2.05	15.45	0.28	3.5	0.024	4.44	31	12.4	0.92	1150	BR07033115
129307	<0.001	0.03	6.06	2.4	830	3.05	0.04	0.14	0.05	95.3	7.2	53	16.8	2.7	2.33	16.25	0.23	3.5	0.029	4.77	29.4	21.9	0.44	1720	BR07033115
129401	<0.001	0.95	6.28	13.4	750	2.85	0.24	0.09	0.07	84.8	24.2	58	4.13	17.5	4.24	22.6	0.21	4	0.36	4.35	45.5	8.1	0.38	7070	BR07033115
129402	0.422	60.6	4.57	110.5	700	2.47	67.1	0.04	0.19	218	21.9	31	2.5	566	6.44	14.9	0.41	2.6	2.38	2.66	106.5	16.8	0.5	7800	BR07033115
129403	0.038	1.1	5.13	8	700	1.87	0.61	0.04	<0.02	194.5	53.9	22	0.74	7.1	3.23	25.3	0.36	3.1	0.037	2.9	96	2.4	0.79	498	BR07033115
129404	<0.001	0.25	7.06	6.7	870	2.92	0.19	0.03	<0.02	39.5	3	34	3.05	2	1.58	24.4	0.19	6	0.082	5.16	22.2	6.7	0.51	178	BR07033115
129405	<0.001	0.6	6.47	6.8	950	3.35	1.1	0.1	0.04	134	2.2	7	4.99	6.6	3.58	19.5	0.29	4.4	0.22	4.93	76.1	13.5	0.5	657	BR07033115
129406	<0.001	0.4	6.58	34	540	3.03	0.62	0.02	0.02	52.4	5.2	24	4.89	129	1.63	19.65	0.17	4.8	0.114	4.12	31.7	12	0.81	631	BR07033115
129407	<0.001	0.23	8.32	4.4	5230	0.81	0.35	0.2	0.04	8.11	19.5	38	2.35	2.6	0.96	6.7	0.09	5	0.019	8.09	3.9	1.6	0.09	307	BR07033115
129408	<0.001	0.16	6.82	3.4	1480	2.9	0.2	0.02	0.02	72.1	8.8	5	3.04	6.1	2.42	20.6	0.24	3.4	0.059	5.3	47.3	9.5	0.64	414	BR07033115
129409	0.005	0.15	6.36	1.5	1390	2.08	0.21	0.22	0.02	101	15.6	64	2.56	6.8	3.08	16.95	0.27	4	0.031	5.74	51.6	7.4	1.01	466	BR07033115
129410	<0.001	0.15	6.71	<0.2	990	3.37	0.07	2.06	0.03	104.5	14	94	3.97	25.6	3.36	19.25	0.27	3.4	0.034	3.47	54.5	13	1.73	534	BR07033115
129411	0.001	0.11	5.68	1.4	1010	2.73	0.14	0.99	0.02	76.9	12.6	77	4.13	14.1	2.95	16	0.24	3.1	0.035	3.43	40.1	10.4	1.44	510	BR07033115
129412	<0.001	0.12	6.38	<0.2	890	3.05	0.14	1.16	<0.02	87.2	38.1	85	6.75	9.6	3.71	18.3	0.27	3.3	0.028	3.46	46.9	15.6	1.99	701	BR07033115
129413	<0.001	0.15	6.51	1.4	830	2.54	0.28	0.11	0.04	71.9	21.4	80	2.36	4	4.46	18.4	0.18	3.8	0.06	3.67	35.3	18.2	1.64	437	BR07033115
129414	<0.001	0.13	6.62	<0.2	1060	3.58	0.09	0.78	0.02	105.5	10.4	62	3.27	8.3	2.78	18.5	0.26	3.7	0.042	3.89	60.2	11.1	1.3	496	BR07033115
129415	<0.001	0.08	6.62	<0.2	1050	3.45	0.09	1.44	<0.02	109.5	10.1	57	3.3	7.8	2.69	18.45	0.31	4.1	0.042	3.87	56.7	11.1	1.21	404	BR07033115
129416	0.001	3.3	6.16	16.4	500	4.49	0.93	0.05	0.81	153	65.5	37	8.33	107.5	5.22	19.35	0.3	3.3	0.423	2.97	86.7	14	0.63	9280	BR07033115
129417	<0.001	0.39	5.72	19.7	610	2.87	6.1	0.02	0.04	109	3.3	3	2.31	626	3.09	17.35	0.23	7.8	0.241	3.74	58.5	7.8	0.3	257	BR07033115
129418	<0.001	0.1	5.38	1.7	880	2.03	0.2	0.07	<0.02	80.6	3	3	2.13	6	1.33	17.1	0.23	5.9	0.252	4.29	38.9	4.4	0.35	121	BR07033115
129419	0.192	0.71	5.75	72.5	210	4.33	5.31	0.05	0.02	85.7	72.8	2	3.92	26.6	6.83	23.6	0.19	3.9	0.094	3.27	45.3	6.5	0.34	279	BR07033115
129420	<0.001	0.11	6.23	1.5	1270	2.15	0.21	0.02	<0.02	69	3.9	2	2.29	8.8	1.19	15.65	0.17	4.1	0.124	5.73	33.3	3.2	0.19	161	BR07033115
129421	<0.001	0.11	6.16	2.3	390	3.16	0.42	0.03	<0.02	99	6.1	2	3.79	1.8	2.82	19.9	0.21	3.6	0.131	3.95	50.7	4.1	0.33	80	BR07033115
129422	0.065	0.26	4.83	97.8	830	1.33	2.99	0.03	<0.02	183	7.5	2	1.9	5.4	7.8	13.5	0.36	2.4	0.066	4.47	85.2	3.2	0.16	126	BR07033115
129423	<0.001	0.14	6.16	1.2	630	2.51	0.14	0.04	<0.02	69.1	0.8	2	2.48	1.8	2.45	15.55	0.14	4.4	0.146	4.35	29.6	7.2	0.22	198	BR07033115
129424	<0.001	0.16	5.97	8.8	490	2.96	0.05	0.07	0.03	67.9	3.4	4	3.89	15.6	2.76	16.35	0.16	4.5	0.291	4	34.6	7.5	0.29	402	BR07033115
129425	<0.001	0.13	7.88	5.8	690	4.41	0.22	0.08	<0.02	67.9	2.5	10	9.11	115	4.41	24.1	0.22	8.1	0.202	5.32	28.2	11.5	0.99	589	BR07033115
129426	<0.001	0.26	5.74	14.2	570	2.24	0.34	0.02	0.19	119.5	14.7	22	2.9	53	3.26	15.75	0.19	3.3	0.257	3.49	62.6	8.2	0.22	2250	BR07033115
129427	<0.001	0.09	6.52	6.8	580	3.01	0.7	0.03	<0.02	135.5	2.4	23	8.12	62.1	3.46	18.85	0.21	4	0.112	4.21	71.4	6.9	0.23	302	BR07033115
129428	<0.001	0.13	6.4	7	310	3.16	0.28	0.01	0.05	146	7.1	20	6.86	40.7	3.45	18.3	0.23	4.4	0.246	3.56	75.8	6.4	0.23	615	BR07033115
129429	<0.001	0.24	6.73	7.2	500	1.2	0.92	0.11	<0.02	12.75	1.9	1	7.42	12.5	1.65	24.4	0.06	1.6	0.155	3.48	6.2	5.9	0.12	217	BR07033115
129430	<0.001	0.11	6.63	6	1480	2.17	0.36	0.02	<0.02	114.5	3.8	23	3.57	43.9	1.96	16.95	0.17	4.2	0.068	1.92	67	7.2	0.32	201	BR07033115
129431	0.002	0.23	5.82	30.7	370	3.34	0.74	0.02	0.05	101	1.8	12	3.21	198	3.93	18.4	0.2	6.5	0.17	2.04	57.1	13.1	0.67	190	BR07033115

Spl_ID	Au_ppm	Ag_ppm	Al_%	As_ppm	Ba_ppm	Be_ppm	Bi_ppm	Ca_%	Cd_ppm	Ce_ppm	Co_ppm	Cr_ppm	Cs_ppm	Cu_ppm	Fe_%	Ga_ppm	Ge_ppm	Hf_ppm	In_ppm	K_%	La_ppm	Li_ppm	Mg_%	Mn_ppm	Lab Batch
129432	<0.001	0.09	6.33	14	780	2.59	0.56	0.02	0.04	98.8	0.6	21	3.29	20.2	1.99	20.4	0.18	5.2	0.195	3.53	51	9.4	0.52	139	BR07033115
129433	<0.001	0.16	5.64	2.9	1600	1.64	0.07	0.83	<0.02	126.5	2.2	2	2.38	2.8	1.07	13.55	0.23	6.4	0.065	3.85	62.9	3.8	0.18	378	BR07033115
129434	<0.001	0.52	6.41	5.3	2010	3.28	0.82	0.33	0.16	61.6	4.1	22	8.45	32	3.63	17.05	0.17	3.1	0.072	3.42	32.2	13.2	1.09	624	BR07033115
129435	<0.001	0.16	6.12	4.8	2110	2.32	0.21	0.09	0.07	130.5	3.3	35	3.61	77.8	2.44	18.4	0.22	4.2	0.066	4.57	73	11.1	0.71	389	BR07033115
129436	<0.001	0.09	6.75	3.6	960	3.98	0.15	0.61	0.26	118.5	10.8	60	6.29	13.4	3.07	19.3	0.27	4	0.038	2.79	77.4	17.1	1.19	423	BR07033115
129437	<0.001	0.09	6.76	3.1	980	3.23	0.16	0.1	0.03	90.4	10.5	68	6.82	35.7	3	18.35	0.23	4.1	0.044	3.73	54.1	13.4	1.37	557	BR07033115
129438	<0.001	0.14	6.75	3.1	980	3.75	0.08	0.48	0.04	115	10.1	69	6.44	12.4	3.15	19.4	0.24	4.3	0.029	2.26	69.4	19.4	1.06	533	BR07033115
129439	<0.001	0.1	6.17	4.3	580	3.47	0.12	0.03	0.03	198	14.2	69	2.72	34.6	4.26	19.1	0.3	3.6	0.093	2.38	105	22	1.52	415	BR07033115
129440	<0.001	0.12	6.62	5	1200	3.88	0.13	0.88	0.16	99.1	10.3	65	4.6	16.9	2.73	19.05	0.2	4.1	0.041	2.63	56.7	18.2	1.27	420	BR07033115
129441	<0.001	0.08	6.46	2.6	370	3.43	0.09	0.07	<0.02	148	7.4	65	4.04	3.8	5.11	19.7	0.23	4	0.095	1.85	73.5	24.9	1.57	435	BR07033115
129442	<0.001	0.05	6.33	2.5	770	2.81	0.05	0.07	<0.02	156	6.9	59	2.91	5.7	5.46	19	0.29	3.5	0.1	3.42	81.2	23.6	1.69	443	BR07033115
129443	<0.001	0.08	6.09	6.1	790	2.8	0.32	0.05	<0.02	58.5	8.9	24	9.36	60.1	4.62	16.2	0.13	3.8	0.03	1.63	27.9	26.7	0.8	367	BR07033115
129444	<0.001	0.09	7.41	1.1	1170	2.76	0.03	2.61	0.03	86.3	18.1	106	3.32	24.4	4.54	20.6	0.26	3.8	0.051	2.03	36.5	18.3	2.1	600	BR07033115
129445	<0.001	0.11	6.75	2.5	700	2.7	0.12	0.25	<0.02	53.8	13.7	119	4.37	5.3	5.52	19.75	0.21	3.4	0.047	3.15	23.4	37.9	2.11	623	BR07033115
129446	<0.001	0.1	7.14	6.6	810	2.8	0.2	0.18	<0.02	155	15.7	122	4.42	10.1	7.35	24.8	0.3	4	0.104	2.9	70.5	30.6	1.81	608	BR07033115
129447	<0.001	0.09	7.17	1.8	1010	3.59	0.03	1.82	0.03	94.6	17.2	110	6.28	19.8	3.85	20.4	0.31	3.5	0.047	2.92	48.9	32.3	2.14	463	BR07033115
129448	<0.001	0.13	7.11	<0.2	1020	3.05	0.11	2.47	0.12	91.5	14.1	99	3.84	16.1	3.52	21.3	0.26	3.1	0.043	1.67	46.2	21.1	1.8	473	BR07033115
129449	<0.001	0.1	7.87	12	700	3.05	0.1	0.12	0.15	77.6	10.6	50	6.96	6.1	4	24.9	0.2	4.4	0.05	2.58	38.8	18.5	0.89	574	BR07033115
129450	<0.001	0.8	7.79	3.3	2230	1.38	0.14	0.06	0.85	19.65	15.1	106	2.86	298	4.98	19.65	0.14	3.7	0.039	4.14	11.8	22.7	1.63	7960	BR07033115
129451	<0.001	0.17	7.33	3.9	940	2.52	0.13	0.2	<0.02	100	6.7	113	2.95	7	2.27	28.6	0.19	3.6	0.051	4.01	49.6	8.9	0.48	211	BR07033115
129452	<0.001	0.16	8.22	4.5	940	2.72	0.05	0.09	<0.02	33.2	4.3	37	4.92	6.1	1.83	26	0.13	5.2	0.057	3.9	16.9	17.5	0.58	168	BR07033115
129453	0.222	0.41	5.82	3.9	750	2.34	0.86	0.11	<0.02	185	22.1	87	4.02	2.6	2.02	24.2	0.3	3	0.058	1.59	85.4	5.8	0.47	286	BR07033115
129454	0.038	0.09	6.62	2.6	750	2.16	0.25	0.11	<0.02	12.2	16.2	105	2.25	8.4	2.46	27.6	0.07	3.7	0.052	2.67	5	12.3	0.74	213	BR07033115
129455	0.024	0.08	7.62	2.1	520	3.1	0.07	0.12	<0.02	13.1	9	108	2.44	4.7	2.38	34.9	0.06	3.7	0.043	2.22	8.6	7.2	0.71	198	BR07033115
129456	0.039	0.06	5.93	3.9	760	2.29	0.25	0.06	<0.02	24.9	8.6	83	3.7	30.8	3.13	25.2	0.15	2.9	0.065	1.69	36.8	7.2	0.89	455	BR07033115
129457	0.06	1.96	8.25	192	>10000	0.94	14.5	0.08	0.09	7.31	1.2	85	2.45	25.6	1.85	9.67	0.09	3.7	0.128	3.03	4.1	1.8	0.18	263	BR07033115
129458	0.004	0.15	7.11	1.2	1160	2.61	0.14	2.13	0.04	86.5	21	119	2.56	10.3	4.52	20.3	0.23	3.2	0.045	2.38	37.2	12.4	2.23	557	BR07033115
129459	0.037	0.25	5.81	9.8	900	2.5	2.03	0.61	<0.02	44.5	63.8	112	1.06	12.3	12.4	24.4	0.22	2.9	0.042	3.35	40	8.9	1.61	479	BR07033115
129460	0.715	7.34	0.51	2280	50	0.58	2.95	0.05	77.6	38.2	198	2	0.53	56.7	34.6	6.7	0.52	0.1	10.5	0.26	17	6.2	0.03	>100000	BR07033115
129461	0.145	2.41	1.65	19	30	0.54	4.93	11.45	0.21	232	215	4	0.53	2.7	8.77	6.96	0.3	1.1	0.086	0.21	110	4.9	5.39	4370	BR07033115
129462	0.009	0.38	6.13	4.3	1110	2.98	0.17	0.73	0.17	137	18.8	41	4.01	2.6	2.93	19.25	0.23	3.6	0.064	2.18	67.1	10.6	1.06	2180	BR07033115
129463	0.232	6.87	2.79	39.9	40	1.12	3.87	5.35	0.35	42.4	310	16	2.54	9.3	10.15	13.6	0.12	1.5	0.346	0.53	20.1	12.4	3.82	31600	BR07033115
129464	0.009	0.18	1.81	15.3	390	0.53	1.28	0.04	0.03	11.3	3.7	127	0.87	12	2.26	5.77	0.06	0.5	0.02	1.11	5.4	2	0.15	283	BR07033115
129465	0.019	0.09	5.97	2.3	120	2.35	0.69	0.29	<0.02	22.3	40.8	76	0.45	4.5	5.96	43.9	0.09	2.2	0.072	0.3	11	5.1	2.41	553	BR07033115
129466	<0.001	0.09	6.59	3.8	1040	2.4	0.13	0.59	0.05	103.5	15	94	3.28	9.9	3.7	18.9	0.28	3.3	0.041	1.71	59.2	19.8	1.91	456	BR07033115
129467	0.017	0.31	5.05	103	770	1.82	0.56	2.2	3.16	124	67.6	78	1.19	7.8	6.68	18.5	0.28	2.5	0.441	4.26	56.7	7.8	1.12	5070	BR07033115
129468	<0.001	0.2	8.76	8.3	720	3.41	0.49	0.31	0.03	61.9	17.6	66	4.89	60.8	5.13	29.8	0.21	5.9	0.089	2.49	29.8	50.5	0.91	597	BR07033115
129469	<0.001	0.14	6.77	1.6	960	3.11	0.15	1.82	0.04	93.6	8.8	63	3.34	7.9	2.86	18.65	0.27	3.7	0.043	4.89	56.9	12.8	1.24	502	BR07033115
129470	0.002	0.43	5.65	35.2	320	0.8	4.75	0.07	<0.02	13.75	26.1	61	2.63	226	8.62	13.4	0.14	3	0.047	5.77	5.7	9.2	0.5	372	BR07033115

Spl_ID	Au_ppm	Ag_ppm	Al_%	As_ppm	Ba_ppm	Be_ppm	Bi_ppm	Ca_%	Cd_ppm	Ce_ppm	Co_ppm	Cr_ppm	Cs_ppm	Cu_ppm	Fe_%	Ga_ppm	Ge_ppm	Hf_ppm	In_ppm	K_%	La_ppm	Li_ppm	Mg_%	Mn_ppm	Lab Batch
129471	0.316	22.7	0.87	283	20	0.37	6.26	2.27	5.76	76.4	477	3	0.24	247	16.1	7.66	0.2	0.8	2.6	0.05	32.6	5.5	0.72	97700	BR07033115
129472	<0.001	0.23	7.1	1	860	2.53	0.07	3.22	0.04	95.7	18.3	107	3.15	18.8	4.45	23	0.25	2.8	0.052	2.63	47.2	17.8	2.35	657	BR07033115
129473	0.007	0.17	6.95	11.2	1630	1.57	0.28	0.24	0.09	20.8	33.2	97	1.57	4.8	2.69	25.2	0.1	3.4	0.039	2.86	13	5.8	0.77	361	BR07033115
129474	0.021	0.26	6.75	5.2	2000	1.52	0.46	0.22	0.12	30.1	25.8	109	1.89	3.6	4.07	18.2	0.16	3.6	0.04	4.24	22.2	7	1	932	BR07033115
129475	0.047	0.08	6.22	1.8	1490	1.02	0.56	1.24	<0.02	20.3	40.7	77	1.31	3.6	2.82	16.9	0.12	3.4	0.043	2.92	12	6.4	0.96	409	BR07033115
129476	<0.001	0.1	7.04	<0.2	1000	2.92	0.01	2.95	0.02	83.6	17.2	109	4.3	14.8	4.23	20.4	0.25	2.9	0.042	4.37	40.7	17.6	2.28	541	BR07033115
129477	<0.001	0.13	6.95	1.5	1280	2.66	0.17	1.99	<0.02	85.8	20.4	118	4.05	80.3	5.17	20.1	0.26	3	0.049	3.01	41.5	19.4	2.25	599	BR07033115
129478	0.013	1.8	8.22	38.1	1350	4.06	3.87	0.2	0.41	82.2	27.7	38	8.48	547	3.68	24.5	0.23	4.9	0.219	4.18	42.2	11.3	0.71	6230	BR07033115
129479	<0.001	0.11	6.82	0.4	1210	3.31	0.08	1.82	<0.02	73	16.8	107	3.57	41.4	4.25	20.2	0.29	2.9	0.041	4.27	36.2	17.1	2.18	615	BR07033115
129501	<0.001	0.11	6.21	2.2	1660	2.46	0.41	0.06	0.04	110	2.4	13	3.25	6.3	2.07	14.45	0.21	5.6	0.072	2.56	59.4	10.9	0.8	277	BR07033115
129502	<0.001	0.08	6.36	3	1930	1.39	0.15	0.05	0.05	62	3.5	38	3.33	10.9	2.38	15.85	0.16	4.1	0.052	3.06	32.3	8.2	0.74	592	BR07033115
129503	<0.001	0.33	6.04	7.7	1080	2.3	1.25	0.06	<0.02	136.5	1.1	6	2.27	13.4	2.02	20.9	0.21	5.1	0.122	1.35	68.8	6.3	0.39	85	BR07033115
129504	0.003	0.12	5.98	6.9	2270	1.32	2.94	0.09	<0.02	80.3	0.8	6	2.51	8.4	2.5	16.15	0.15	3.8	0.078	2.89	42.5	4.7	0.28	94	BR07033115
129505	<0.001	0.09	6.06	8.4	1610	2.16	1.59	0.1	<0.02	75	1.5	11	4.34	34.5	1.9	18.65	0.17	4.4	0.059	4.35	40.2	8.4	0.55	171	BR07033115
129506	<0.001	0.15	6	3.1	2240	1.95	1.24	0.04	0.04	105	1.8	13	3.09	20.4	1.45	16	0.21	4.5	0.066	4.68	65.3	3.4	0.25	469	BR07033115
129507	<0.001	0.08	6.15	2.2	870	1.47	0.62	0.04	<0.02	139.5	1.8	16	2.26	5.9	2.15	13.35	0.22	4.8	0.046	4.64	74.4	6.1	0.27	122	BR07033115
129508	<0.001	0.09	6.16	7.4	1190	1.76	0.76	0.07	<0.02	96.8	2.9	5	3.22	6.4	1.91	18.75	0.2	5.7	0.074	3.99	57.6	8.1	0.34	164	BR07033115
129509	<0.001	0.12	6.94	0.7	1040	3.37	0.1	1.35	0.02	105	8.9	56	3.81	6	2.99	18.85	0.25	3.9	0.065	3.95	68.1	14	1.18	391	BR07033115
129510	<0.001	0.09	6.19	1.5	1100	2.92	0.29	1.09	<0.02	99.8	3.9	15	4.44	4.2	2.4	17.5	0.21	3.5	0.044	2.53	55.5	11.5	0.6	320	BR07033115
129511	<0.001	0.05	6.19	2.6	1420	1.1	4.33	0.1	0.04	111.5	6.6	22	4.07	10.3	3.52	19.2	0.2	3.4	0.076	3.09	57.7	11	0.61	464	BR07033115
129512	<0.001	0.09	6.27	3.4	1080	3	0.16	0.27	0.04	94.3	3.2	23	5.59	28.8	2.72	17.95	0.2	4	0.106	1.84	52.1	13	0.66	238	BR07033115
129513	<0.001	0.1	6.32	2.1	1170	2.39	0.1	0.15	0.03	92.7	3.3	18	6.55	27.1	2.75	17.25	0.18	3.8	0.087	3.33	51.1	13.6	0.64	266	BR07033115
129514	<0.001	0.06	6.44	1.9	1090	2.72	0.05	0.07	<0.02	101.5	4.9	22	8.16	5.7	4.16	18.05	0.2	4	0.123	3.29	52.5	12.5	0.8	265	BR07033115
129515	<0.001	0.09	6.19	2.1	1300	1.41	0.19	0.08	0.04	110.5	13.6	30	4.95	8.5	4.41	17.5	0.21	3.7	0.142	3.93	57.4	13.9	0.71	466	BR07033115
129516	<0.001	0.5	6.17	2.7	1160	2.34	0.17	0.05	0.06	89.1	1.9	4	3.93	52	3.25	17.5	0.16	4.5	0.266	2.22	46.9	12.5	1.01	1170	BR07033115
129517	<0.001	0.16	6.16	11.2	1250	2.23	3.58	0.14	0.04	70.2	7.5	50	5.23	76.8	2.51	15.55	0.18	4.1	0.132	3.86	40.2	13.8	1.14	516	BR07033115
129518	<0.001	0.1	6.14	3.6	660	2.53	0.16	0.03	0.02	65.4	1.1	5	3.95	43	1.91	17.6	0.14	5.4	0.118	2.64	42.5	10.2	0.43	202	BR07033115
129519	0.032	0.09	5.16	15	600	2.15	0.25	0.02	0.02	79.8	1.6	8	2.9	64.5	2.08	14.1	0.14	4.8	0.141	2.58	49	10.3	0.38	204	BR07033115
129520	0.009	0.12	6.37	15.4	700	2.46	4.28	0.02	0.03	84.3	2.5	3	4.82	166	2.03	20.3	0.21	7	0.131	4.12	42.5	10.6	0.42	231	BR07033115
129521	<0.001	0.09	6.22	3.3	1170	2.79	0.14	0.33	<0.02	96.4	5.8	22	5.52	8.5	3.07	17.35	0.28	3.6	0.062	4.16	60	11.4	0.67	440	BR07033115
129522	<0.001	0.09	6.39	1.4	1200	3.4	0.12	0.54	0.02	89.6	2.8	15	5	2.2	2.49	17.35	0.25	3.4	0.052	4.21	69.5	8.1	0.47	417	BR07033115
129523	<0.001	0.07	5.98	3.9	940	3.17	0.6	0.05	<0.02	68.8	3.9	18	5.4	6.9	4.92	17.05	0.19	3.4	0.129	3.71	38.2	20.1	0.74	414	BR07033115
129524	<0.001	0.07	6.34	2.1	1020	3.14	0.09	0.29	<0.02	83.8	4.9	15	4.54	4.1	3.18	17.45	0.2	3.2	0.059	3.73	40.4	13.3	0.59	454	BR07033115
129525	<0.001	0.06	6.39	4.1	1310	3.55	0.19	0.1	<0.02	87	3.2	16	5.98	4.9	3.12	16.4	0.23	3.4	0.09	4.64	54.4	12.6	0.48	263	BR07033115
129526	<0.001	0.11	5.9	5.7	830	2.85	0.31	0.04	<0.02	92.9	5.8	15	6.48	2.2	5.1	17.35	0.2	3	0.091	3.6	50.4	23.1	0.97	470	BR07033115
129527	<0.001	0.09	6.19	2.7	1570	2.53	0.1	0.11	<0.02	133.5	4.6	16	4.71	3.4	2.69	16	0.27	3.6	0.087	4.81	76.2	10.5	0.56	297	BR07033115
129528	<0.001	0.14	6.13	2.5	1250	2.9	0.08	0.07	<0.02	87.2	6.5	15	8.13	2.3	2.84	16.85	0.21	3.2	0.069	5.12	52.8	11.5	0.68	425	BR07033115
129529	<0.001	0.09	6.31	1.1	1270	4.2	0.08	0.72	<0.02	133	4	15	6.04	5.6	2.55	18.5	0.33	3.6	0.054	4.28	86.9	15.2	0.58	499	BR07033115
129530	<0.001	0.06	6.17	2.3	1120	2.99	0.57	0.15	<0.02	89.7	3.6	14	7.25	1.4	2.57	16.25	0.24	3.5	0.126	4.26	59	10.8	0.47	273	BR07033115

Spl_ID	Au_ppm	Ag_ppm	Al_%	As_ppm	Ba_ppm	Be_ppm	Bi_ppm	Ca_%	Cd_ppm	Ce_ppm	Co_ppm	Cr_ppm	Cs_ppm	Cu_ppm	Fe_%	Ga_ppm	Ge_ppm	Hf_ppm	In_ppm	K_%	La_ppm	Li_ppm	Mg_%	Mn_ppm	Lab Batch	
129531	<0.001		0.08	6.52	2.8	960	4.05	0.1	0.07	<0.02	135.5	3.2	16	9.44	1.6	3.61	19.2	0.25	3.6	0.111	4.82	66.2	10.6	0.63	284 BR07033115	
129532	<0.001		0.1	6.32	4.9	1000	3.42	0.14	1.33		103	6.7	16	16.4	6.8	3.3	17.25	0.25	3.4	0.137	3.9	55.3	17.6	0.46	1510 BR07033115	
129533	<0.001		0.18	5.88	1	740	3.29	0.28	0.4	0.24	75.4	1.7	22	4.78	642	1.67	18.25	0.2	4.4	0.154	4.5	54.7	8.2	0.47	482 BR07033115	
129534	<0.001		0.06	7.11	1.2	1110	4.01	0.09	0.44	<0.02		92.6	1.7	12	7.37	9.3	2.47	18.75	0.23	4.3	0.148	5.75	48.9	11.1	0.72	368 BR07033115
129535		0.001	0.25	7.08	22.7	780	2.6	4.75	0.04	<0.02	69.6	1.3	39	6.78	125	2.43	20.2	0.16	4.9	0.238	5.13	35.8	14.5	0.65	301 BR07033115	
129536	<0.001		0.11	6.35	0.6	930	3.34	0.19	1.72		95.3	6	28	3.63	6.8	2.53	17.8	0.22	3.7	0.04	3.51	50.5	14.6	0.66	784 BR07033115	
129537	<0.001		0.12	6.34	<0.2	960	3.22	0.15	1.18	0.04	96.3	5.4	32	5.09	4.9	2.63	17.8	0.25	4	0.096	3.48	52	10.9	0.78	610 BR07033115	
129538		0.044	0.92	4.68	8.1	210	2.73	57.9	0.04		69.2	6.1	3	5.69	177.5	3.93	12.75	0.32	3.6	1.64	2.09	37.4	9.6	0.48	1790 BR07033115	
129539	<0.001		0.66	5.63	6.3	390	3.17	0.44	0.66	0.54	92.5	5.1	2	8.89	3.4	4.29	15.8	0.25	5.2	0.266	2.95	47.7	10.6	0.7	2270 BR07033115	
129540	<0.001		0.47	6.35	10.3	640	2.46	1.27	0.03	0.04	77.6	4.1	10	7.21	78.3	2.67	17.8	0.2	4.6	0.213	3.8	41.1	13.9	0.46	269 BR07033115	
129541	<0.001		0.18	8.66	27.7	800	5.42	0.07	0.24	0.04	114	3.9	5	11.95	2.3	1.36	25.8	0.25	12.2	0.251	6.5	52.9	23	0.5	322 BR07033115	
129542	<0.001		1.04	6.92	3.5	750	3.5	1.69	0.06	0.48	90.5	2	1	7.02	7.4	3.33	18.85	0.21	3.7	0.713	4.25	46.2	7.8	0.36	2050 BR07033115	
129543		0.104	15.4	4.92	48.6	630	2.4	7.97	0.05	2.26	127	24.3	6	4.7	80.2	3.92	15.4	0.26	4.8	0.199	3.2	63	5.8	0.29	2460 BR07033115	
129544	<0.001		0.23	6.27	9.9	1050	3.3	0.76	0.5	0.58	137.5	6.7	9	12.8	44.6	2.34	18.45	0.25	3.3	0.127	4.67	74.3	8.4	0.46	659 BR07033115	
129545	<0.001		0.14	6.35	0.2	1110	3.22	0.16	1.28	0.02	101	5	18	4.17	3.8	2.42	16.5	0.25	3.3	0.048	3.82	56.3	11.2	0.5	687 BR07033115	
129546	<0.001		0.22	6.24	1.2	1000	3.35	0.07	1.15	0.11	94.4	5.1	17	3.93	1.6	2.02	16.8	0.21	3.7	0.117	3.6	45.5	9.7	0.52	692 BR07033115	
129547	<0.001		0.15	6.3	1.3	1020	3.2	0.18	1.53	0.05	99.2	5.5	19	3.13	5.2	2.41	17.05	0.27	3.4	0.057	3.75	52.5	9.1	0.47	550 BR07033115	
129548	<0.001		0.65	6.69	56.7	1580	4.48	0.34	2.59	0.38	93.5	11.4	71	17.8	4.2	2.77	18.2	0.3	4.1	0.549	3.36	47.3	15.4	1.06	1610 BR07033115	
129549	<0.001		0.15	6.44	0.8	990	3.26	0.12	0.45	0.06	97.9	1.1	2	5.64	8.3	0.89	15.65	0.23	3.7	0.032	3.51	51.6	10.7	0.13	338 BR07033115	
129550		0.011	0.18	6.31	4.8	250	2.53	0.31	0.04	0.03	119	4.3	1	8.51	67.2	2.43	24.8	0.28	2.6	0.176	3.32	62	13.9	0.56	369 BR07033115	
129551	<0.001		0.13	9.96	2.4	820	2.65	1.87	0.25	0.12	88.8	1.7	9	3.62	25.6	2.23	18.55	0.25	2.5	0.109	2.74	52.6	11.3	0.57	330 BR07033115	
129552	<0.001		0.07	6.22	6.2	1040	2.99	0.61	1.49	<0.02	95.8	5	17	3.59	1.4	2.15	16.15	0.25	2.8	0.057	3.33	51.7	10.8	0.6	500 BR07033115	
129553	<0.001		0.17	6.08	18.7	330	1.64	0.49	0.29	0.03	40.3	2	12	8.04	8.2	1.79	17.45	0.12	2.6	0.038	4.03	21.3	14.1	0.25	284 BR07033115	
129554	<0.001		0.22	6.31	5.6	960	3.02	0.28	1.33	0.71	95.4	1.1	2	7	3.6	1.05	16.65	0.23	3.8	0.037	4.2	47.1	5.9	0.17	909 BR07033115	
129555	<0.001		0.11	7.32	0.4	800	2.31	0.16	3.72	0.03	93.1	15.3	29	2.53	13.3	4.98	20.4	0.24	3.5	0.131	2.26	36.6	12.3	1.64	574 BR07033115	
129556	<0.001		0.18	7.43	0.2	850	2.28	0.07	3.69	0.03	98.1	14.5	37	2.73	6.4	4.5	20.3	0.25	3.4	0.042	2.48	40.2	13.3	1.63	596 BR07033115	
129557	<0.001		0.13	7.29	0.5	1010	2.31	0.11	2.87	0.06	115	14.1	39	2.87	7.2	4.61	19.5	0.31	3.1	0.047	2.69	63.8	12.9	1.46	620 BR07033115	
129558	<0.001		0.43	0.61	5.3	30	0.3	8.02	0.02	0.04	45	25.3	3	0.46	14.2	32.2	7.64	0.88	0.5	0.048	0.32	19.3	3.1	0.03	92 BR07033115	
129559	<0.001		0.14	7.46	0.6	1040	2.33	0.1	4.06	0.06	90.4	16.1	42	2.56	4.5	4.94	20.5	0.23	3.5	0.076	2.27	38	14.8	1.61	480 BR07033115	
129560		0.001	0.18	6.25	1.3	2360	2.22	0.12	0.2	<0.02	16.8	5.5	34	2.81	23.7	2.15	11.45	0.09	3.6	0.031	5.84	7.8	7	0.42	153 BR07033115	
129561	<0.001		0.16	7.41	5	1460	2.53	0.58	0.26	0.02	101	8.4	40	8.07	19.7	6.45	23.6	0.37	3.8	0.065	5.96	47.4	6.8	0.42	142 BR07033115	
129562	<0.001		0.31	8.1	3.6	4640	1.4	0.62	0.07	<0.02	194.5	8.3	50	8.17	<0.2	5.64	12.65	0.42	3.9	0.048	8.56	51.1	5.6	0.27	426 BR07033115	
129563	<0.001		0.11	6.56	1.3	450	3.3	0.16	0.03	<0.02	59.5	4.1	18	4.21	17.6	2.4	17.85	0.22	3.3	0.058	3.93	60.5	7	0.4	99 BR07033115	
129564		0.001	<0.01	8.02	0.5	290	1.49	0.03	0.07	0.02	140	4.4	19	3.72	2	1.96	18.35	0.22	4.3	0.022	4.06	69.5	3.3	0.17	69 BR07033115	
129565	<0.001		0.12	7.11	2.2	560	3.63	0.12	0.05	<0.02	107.5	8.1	73	9.71	22.9	4.3	19.25	0.28	3.9	0.096	4.11	43.6	5.6	0.42	168 BR07033115	
129566	<0.001		0.04	7.27	1.6	940	3.86	0.08	0.03	0.05	11.4	4.7	86	8.67	1.9	3.29	18.15	0.13	4	0.034	4.23	14.5	6	0.44	87 BR07033115	
129567	<0.001		0.13	7.22	1.6	1090	4.19	0.11	0.11	0.08	35.8	15.3	111	11.2	13.3	5.57	18.4	0.27	3.5	0.102	4.42	19.5	15.2	0.9	245 BR07033115	
129568	<0.001		0.17	7.3	0.9	1120	2.86	0.1	1.08	0.02	75.3	15.8	96	4.73	6.7	5.38	19.6	0.34	3.4	0.054	3.97	35.7	17.6	1.88	371 BR07033115	
129569	<0.001		0.13	5.68	0.7	1820	2.33	0.34	0.02	<0.02	>500	14.6	69	3.72	22.8	6.38	20.1	1.19	3.7	0.084	3.17	260	16.2	1.23	228 BR07033115	

Spl_ID	Au_ppm	Ag_ppm	Al_%	As_ppm	Ba_ppm	Be_ppm	Bi_ppm	Ca_%	Cd_ppm	Ce_ppm	Co_ppm	Cr_ppm	Cs_ppm	Cu_ppm	Fe_%	Ga_ppm	Ge_ppm	Hf_ppm	In_ppm	K_%	La_ppm	Li_ppm	Mg_%	Mn_ppm	Lab Batch	
129570	<0.001	0.07	7.53	0.5	650	3.21	0.21	0.1	<0.02		190.5	25.9	97	6.87	15.1	4.99	20.2	0.4	4.1	0.07	3.26	87.3	20.1	1.93	299	BR07033115
129571	<0.001	0.14	7.1	1.3	950	3.24	0.17	0.07	<0.02		158	29.3	93	9.21	4.3	5.7	20.5	0.42	3.7	0.089	3.75	74.4	19	1.54	327	BR07033115
129572	<0.001	0.15	7.07	1.1	1190	2.57	0.05	1.83	0.02		158	15.9	95	2.42	29.9	4	18.9	0.35	3.6	0.039	3.48	61.1	14.4	1.87	340	BR07033115
129573	<0.001	0.18	6.94	1	1060	2.99	0.12	3.02	0.12		146.5	17.3	101	2.78	23	4.47	20.3	0.4	3.5	0.048	3.02	62.3	16.7	2.05	314	BR07033115
129574	0.011	0.17	6.89	0.9	390	3.92	0.08	0.02	<0.02		6.31	6.9	23	4.15	3.7	2.64	15.35	0.06	3	0.122	3.99	3	6.5	0.37	74	BR07033115
129575	<0.001	0.18	5.64	4.3	810	2.2	0.22	0.18	<0.02		68.1	10	62	3.12	11.2	3.71	15.4	0.22	3.2	0.084	2.49	30	14.7	1.31	522	BR07033115
129576	<0.001	0.15	6.23	1.2	1100	3.59	0.09	0.23	0.02		122	4.7	16	6.31	0.6	2.42	17.05	0.28	3.4	0.123	4.41	67	9.8	0.68	362	BR07033115
129577	<0.001	1.34	6.46	25.1	1240	2.99	19.65	0.62	0.17		125.5	6.4	15	4.19	213	1.96	16.2	0.24	3.6	0.143	4.64	55.3	8.2	0.38	317	BR07033115
129578	<0.001	0.28	6.41	3.1	1140	3.17	0.24	0.7	0.07		129	5.3	16	4.13	14.6	2.58	16.95	0.26	3.4	0.063	3.91	59.3	11.2	0.59	1120	BR07033115
129579	<0.001	0.14	6.13	3.3	970	3.6	0.12	1.51	0.08		121	5	16	3.74	0.6	2.22	16.95	0.26	3.1	0.025	3.56	53.2	13.5	0.51	708	BR07033115
129580	<0.001	0.27	5.8	3.3	1050	2.14	0.75	0.65	0.12		95.9	9.7	81	5.61	28.1	4.56	16.05	0.32	4.5	0.334	3.21	42.4	14.5	1.25	1110	BR07033115
129581	<0.001	0.17	5.32	4.4	1040	3.17	0.66	0.04	<0.02		123	2.7	2	3.22	26.4	3.31	18	0.3	5.1	0.214	3.21	51.6	9.7	0.45	489	BR07033115
129582	0.003	0.49	8.2	3.4	6150	0.53	0.53	0.21	0.07		32.6	48	81	2.92	0.3	4.47	7.42	0.22	3.4	0.012	9.19	13.3	3	0.06	387	BR07033115
129583	<0.001	0.23	6.27	2.9	930	3.22	0.14	1.63	0.04		122	5.9	23	3.74	3.4	2.34	16.9	0.26	3.7	0.066	3.37	51.3	12.6	0.61	399	BR07033115
129584	<0.001	0.17	0.76	3.2	40	0.27	0.13	0.05	<0.02		3.75	1.2	5	0.49	7.7	1.79	2.21	<0.05	0.4	0.006	0.42	1.8	3.2	0.06	224	BR07033115
129585	0.017	0.2	6.32	1.9	1750	1.33	0.21	1.29	<0.02		52.5	19.3	78	1.99	2.5	3.32	16.15	0.21	3.4	0.035	6.38	24.1	9.8	0.93	604	BR07033115
129586	0.013	0.19	6.22	2.6	1240	1.75	0.17	0.19	<0.02		87.4	13.8	66	2.23	5.2	3.53	15.7	0.21	3.7	0.036	5.23	34.2	8.6	1.03	395	BR07033115
129587	0.023	0.24	5.27	4.2	1500	0.67	0.48	0.04	0.02		29.9	23.5	43	1.67	2.7	4.19	10.15	0.22	3.2	0.027	6.28	11.9	3.6	0.26	765	BR07033115
129588	<0.001	0.1	6.68	0.9	460	3.55	0.14	2.33	0.02		131	5.6	55	2.92	1.9	2.23	17.2	0.23	3.8	0.049	1.19	55.8	11.7	1.16	272	BR07033115
129589	<0.001	0.15	6.56	<0.2	520	3.9	0.09	2.15	0.02		132	5.7	52	3.51	2.5	2.15	17.4	0.25	3.8	0.043	1.26	59.6	13.3	1.09	284	BR07033115
129590	<0.001	0.12	6.89	1.7	1100	3.3	0.14	1.14	0.13		114	5.5	29	4.38	6.5	2.87	18.5	0.33	3.7	0.071	3.75	55.6	11.7	0.7	905	BR07033115
129591	<0.001	0.11	6.36	7.2	1010	2.66	0.1	0.05	0.2		108.5	3	19	9.33	25.7	17	0.22	3.4	0.101	3.55	47.8	12.4	0.51	2080	BR07033115	
129592	<0.001	0.01	6.64	2.6	1080	3.12	0.18	1.44	0.19		113.5	5.2	17	4.52	4	2.51	17.6	0.3	3.3	0.034	3.51	51.3	13.3	0.6	604	BR07033115
129593	<0.001	0.02	6.81	1.2	1060	3.37	0.12	1.6	0.02		122	4.6	12	4.32	2.8	2.39	18.1	0.29	3.5	0.037	3	54	12.7	0.52	495	BR07033115
129594	<0.001	0.01	6.63	2.2	1250	2.89	0.17	0.11	<0.02		100	6	15	14.1	0.4	3.44	16.7	0.26	3.3	0.129	3.97	38.3	8.6	0.52	236	BR07033115
129595	<0.001	0.04	6.51	2	1200	2.67	0.17	0.32	<0.02		145	4.3	15	8.9	2.1	2.46	16.65	0.29	3.4	0.1	4.18	60.8	10.8	0.64	355	BR07033115
129596	<0.001	0.1	6.15	1.4	1010	1.96	0.18	0.33	0.06		148	3.3	5	2.3	2	2.2	17.25	0.35	4.6	0.1	2.7	67.3	12.1	0.43	436	BR07033115
129597	<0.001	<0.01	7.56	0.5	590	2.91	0.04	1.08	0.04		129.5	0.9	1	6.94	0.9	0.85	19.45	0.24	4	0.06	3.34	53.6	13.8	0.22	467	BR07033115
129598	<0.001	0.09	6.96	1.9	1160	2.49	0.15	0.63	0.4		140	2.1	6	2.83	19	1.36	16.7	0.27	3	0.04	3.14	53.9	9.7	0.26	341	BR07033115
129599	<0.001	0.08	6.62	0.6	1010	2.26	0.09	0.45	0.02		117	4.1	22	2.28	1.3	1.91	16.5	0.23	3.9	0.042	3.77	48	11.4	0.66	268	BR07033115
129600	<0.001	0.09	6.6	1.9	930	3.1	0.11	1.71	0.02		107.5	10.6	64	3	16.6	2.68	17.45	0.34	3.7	0.035	3.49	44.3	18	1.24	360	BR07033115

Spl_ID	Mo_ppm	Na_%	Nb_ppm	Ni_ppm	P_ppm	Pb_ppm	Rb_ppm	Re_ppm	S_%	Sb_ppm	Sc_ppm	Se_ppm	Sn_ppm	Sr_ppm	Ta_ppm	Te_ppm	Th_ppm	Ti_%	Tl_ppm	U_ppm	V_ppm	W_ppm	Y_ppm	Zn_ppm	Zr_ppm	Lab Batch
129301	0.21	1.37	14.3	28.1	380	6.9	201	<0.002	<0.01	0.4	12	1	2.6	127.5	1.18	<0.05	29.7	0.248	0.87	4.4	63	1.6	27.7	31	88.8	BR07033115
129302	0.23	1.52	16.3	59.7	490	8.2	168.5	<0.002	0.13	0.35	12.7	1	4	182	1.27	<0.05	24.7	0.322	0.84	4.7	73	0.8	26.6	26	104.5	BR07033115
129303	0.15	1.32	16.4	44.9	620	20.6	180.5	<0.002	<0.01	0.31	16.8	1	1.5	207	1.18	<0.05	25.2	0.352	0.75	4.6	92	0.8	33.9	39	84.8	BR07033115
129304	0.22	1.98	15.8	33.3	480	44.8	122	<0.002	0.01	0.47	10.8	1	2.6	213	1.23	<0.05	30.8	0.276	0.55	4.9	58	0.8	26.4	74	79.7	BR07033115
129305	0.2	1.6	16.5	42.7	760	7.5	145	<0.002	0.06	0.28	18.6	1	3.5	251	1.25	<0.05	22.1	0.386	0.62	3.9	108	0.8	34.7	27	82.2	BR07033115
129306	0.23	1.06	13	25	400	6.1	230	<0.002	0.03	1.07	10.5	<1	2.5	92.2	1.07	<0.05	25.2	0.213	0.95	5.2	55	19	20.3	26	72.2	BR07033115
129307	0.22	0.56	14.8	27.7	470	7	249	<0.002	<0.01	2.28	11	1	2.6	58.9	1.21	<0.05	28.2	0.226	1.22	4.2	58	20	24	38	84.5	BR07033115
129401	0.77	0.08	9	9.3	290	1395	245	<0.002	0.01	4.15	9.9	<1	23	29	0.7	0.09	29	0.175	0.86	7.2	56	19	11.5	53	85	BR07033115
129402	3.49	0.14	6.1	16.1	300	4980	139	<0.002	0.01	374	9.5	1	9.8	22.5	0.55	0.22	23.4	0.095	0.73	9.7	34	32.7	11.9	74	53.4	BR07033115
129403	2.06	0.35	5.5	35.5	240	324	91.4	<0.002	0.01	1.5	17.1	1	27.7	37.1	0.54	0.42	21.7	0.104	0.37	3.2	83	18.1	9.9	23	67.8	BR07033115
129404	0.34	0.12	9.8	12	90	30.3	251	<0.002	<0.01	2.4	12.5	<1	23.4	23.4	0.79	0.07	17.2	0.197	0.71	4.6	56	28.2	14	11	156.5	BR07033115
129405	0.38	0.08	14.2	3.5	420	53.9	257	0.002	<0.01	3.44	11.6	1	5.6	28.2	1.03	<0.05	29.4	0.215	1.04	4.9	30	4	26.5	29	96.1	BR07033115
129406	1.78	0.06	5.4	10	110	53.5	219	<0.002	0.03	1.37	9.9	1	3.4	15.8	0.41	0.05	11.2	0.13	0.77	3.5	70	4.1	19.2	27	134.5	BR07033115
129407	7.56	0.15	13	3.8	20	12.1	242	<0.002	0.23	1.23	1.6	1	3.6	68.8	0.94	0.14	28.9	0.204	1.54	7.8	13	14.6	10	13	114	BR07033115
129408	0.49	0.07	11	7	120	6	276	<0.002	0.01	0.93	7.5	1	10.9	34.7	0.87	0.07	20	0.103	0.83	4.3	16	9.4	21	42	72.7	BR07033115
129409	0.19	0.53	11.9	23.5	330	12.6	231	0.002	<0.01	0.45	11.3	1	10.2	86.1	1.02	0.18	29	0.209	0.77	5.7	55	22.8	22.7	36	92.2	BR07033115
129410	0.28	1.38	15.2	43	620	14.6	179	<0.002	0.06	0.26	15.6	<1	3.1	228	1.11	<0.05	24.2	0.337	0.73	4.4	89	0.9	31.7	27	78.4	BR07033115
129411	0.2	1.05	13	38.7	520	10.5	175.5	<0.002	0.04	0.51	12.8	<1	3.4	145	1.07	0.07	21.4	0.267	0.76	4.5	72	2.5	26.2	29	71.8	BR07033115
129412	0.53	1.13	14.1	41.9	590	9.4	179	<0.002	0.25	0.57	14.7	1	3.5	103	1.14	0.09	24.4	0.309	0.74	6	85	5.6	24.8	32	73.1	BR07033115
129413	0.34	0.47	9.3	36.7	490	4.9	198.5	<0.002	0.12	0.7	11.8	1	5.9	30.8	0.77	0.11	26.9	0.18	0.6	5.1	69	25.9	22.8	38	89.7	BR07033115
129414	0.11	1.53	16.2	32.9	430	13.1	193	<0.002	<0.01	0.6	12.1	1	3.1	152	1.31	<0.05	29.6	0.258	0.67	5.3	63	2	33.7	37	85.6	BR07033115
129415	0.16	1.53	16.3	29.9	450	9.2	212	<0.002	0.01	0.28	12.7	1	3.4	200	1.41	<0.05	29.4	0.257	0.77	4.7	65	0.9	33.5	24	87.7	BR07033115
129416	4.4	0.2	12.6	24.8	280	1405	221	<0.002	0.01	5.18	8.3	2	6.6	22.8	1.07	0.13	33.5	0.159	0.86	11	42	11	39.8	296	72.2	BR07033115
129417	1.27	0.06	16.7	2.1	120	54.1	206	<0.002	1.4	6.79	13.2	1	6.8	18.7	1.18	<0.05	25.5	0.141	0.83	7.1	8	5.1	24	25	177	BR07033115
129418	0.32	0.11	18.2	3.3	80	8.3	199.5	<0.002	<0.01	0.8	9.5	1	14.3	23.3	1.42	<0.05	26.2	0.085	0.67	4.4	4	9.3	23.5	9	115.5	BR07033115
129419	0.92	0.04	13.4	13	60	34.4	248	<0.002	5.86	1.58	8.2	3	15.1	11.5	1.01	1.3	18.1	0.057	0.56	16.3	13	6.5	44.2	12	103.5	BR07033115
129420	0.32	0.1	14.6	4	50	31.1	262	<0.002	0.05	0.71	7.6	1	9.6	40.4	1.18	<0.05	26.8	0.07	0.89	4	8	10.7	12.7	11	79.7	BR07033115
129421	0.43	0.06	12.1	3.4	70	14.7	258	<0.002	0.02	1.39	8.2	1	19.2	11.2	1.11	0.11	28.4	0.065	0.58	3.6	6	11.9	10.6	6	70.5	BR07033115
129422	0.35	0.08	13	2.9	130	21.5	207	<0.002	0.14	4.66	5.4	1	43.5	24.4	0.76	1.38	20.7	0.047	0.64	2.4	16	34.9	10	9	47.2	BR07033115
129423	0.16	0.1	15.8	1.3	50	10.3	210	<0.002	<0.01	0.26	8.9	1	8.7	19.6	1.45	<0.05	31.4	0.067	0.79	5.1	2	3.4	25.8	13	82.4	BR07033115
129424	0.15	0.09	16.6	1.7	60	67.7	211	<0.002	<0.01	0.78	9.4	1	12.5	16.6	1.45	<0.05	30.4	0.07	0.84	4.4	4	4.2	23.5	57	80.1	BR07033115
129425	0.87	0.1	18.7	7.7	300	13.2	242	<0.002	<0.01	2.48	14.4	1	10.3	25.1	1.4	<0.05	21.9	0.275	1.19	7.5	46	11.7	17	52	200	BR07033115
129426	0.72	0.04	10.9	9.7	160	16	225	<0.002	0.02	0.92	6.6	1	4.9	6.8	0.91	<0.05	26	0.136	0.59	5.8	29	9	16.5	50	76.2	BR07033115
129427	0.23	0.05	9.2	4.7	160	3.4	283	<0.002	<0.01	1.76	6.8	1	6.5	14.2	0.86	<0.05	29.4	0.138	0.74	4.2	33	21.3	13.4	7	77	BR07033115
129428	0.63	0.05	13.1	6.2	120	8.9	255	<0.002	0.01	1.96	7.3	1	6.2	6.1	1.11	<0.05	31.3	0.148	0.52	5.9	27	15.4	20.2	54	89.7	BR07033115
129429	0.47	0.22	48.8	2	530	25.7	281	<0.002	0.02	0.62	23.1	1	7.6	28.6	9.3	0.13	4.9	0.024	2.39	5.7	2	15.6	7.9	20	18.9	BR07033115
129430	0.77	0.12	13.7	13	190	22.1	100.5	<0.002	<0.01	0.71	8.2	1	6	50.7	1.22	0.07	30.9	0.161	1.31	5.5	33	36.3	17.8	14	89.5	BR07033115
129431	1.34	0.04	12.8	8.4	210	45.4	162.5	<0.002	0.08	1.41	9.1	<1	3.2	11.7	1.12	<0.05	27.1	0.177	0.83	5.7	33	9.8	18.8	36	165	BR07033115

Spl_ID	Mo_ppm	Na_%	Nb_ppm	Ni_ppm	P_ppm	Pb_ppm	Rb_ppm	Re_ppm	S_%	Sb_ppm	Sc_ppm	Se_ppm	Sn_ppm	Sr_ppm	Ta_ppm	Te_ppm	Th_ppm	Ti_%	Tl_ppm	U_ppm	V_ppm	W_ppm	Y_ppm	Zn_ppm	Zr_ppm	Lab Batch		
129432	0.79	0.06	7.9	4.2	160	39.2	222	<0.002	<0.01		1.1	10.9	1	2.5	32.5	0.67	0.08	23.1	0.142	0.98	5.3	38	2.2	18.3	35	126.5	BR07033115	
129433	5.47	0.08	11.6	1.6	230	7.1	181	<0.002		0.03	0.93	4.6	1	1.8	60.4	1.07	<0.05	23.5	0.136	1.21	6	10	9.1	28.9	9	146.5	BR07033115	
129434	0.23	0.51	12.2	9.2	400	54.9	196.5	<0.002	0.21		0.68	21.2	<1	9.5	76.8	0.77	<0.05	11.3	0.423	1.28	2.8	87	4.1	15	64	79.8	BR07033115	
129435	2.49	0.1	13.3	13.1	400	54.9	236	<0.002	<0.01		1.02	9.7	1	4.8	74	1.04	<0.05	25.8	0.201	1.03	5.2	79	10.9	13.9	51	100	BR07033115	
129436	0.4	1.22	15.3	33.6	440	8.2	168.5	<0.002	0.01		0.57	12.3	1	4.4	123	1.31	<0.05	30.5	0.245	0.84	5.2	63	5.6	59.2	39	91.3	BR07033115	
129437	0.23	0.59	15.8	33.6	400	6.5	207	<0.002	<0.01		0.65	13.8	1	3.1	77.9	1.33	<0.05	30.8	0.26	0.94	5.6	66	7.4	31.4	34	96.8	BR07033115	
129438	0.33	1.32	15.2	32.1	440	19.1	168.5	<0.002	<0.01		0.92	12.3	1	3.2	131	1.31	<0.05	28.4	0.268	0.94	5.5	68	1.2	37.9	51	102.5	BR07033115	
129439	0.28	0.05	12.3	31.4	250	3.6	179.5	<0.002	0.01		1.01	12.4	<1	7.9	16.1	1.08	0.07	26.6	0.206	0.7	6.1	59	23.1	17	25	87.9	BR07033115	
129440	0.38	1.28	16.4	34.3	490	16.9	146	<0.002	<0.01		0.32	13.1	<1	3.6	174.5	1.35	<0.05	29.2	0.276	0.99	4.6	64	1.5	30.6	36	98.6	BR07033115	
129441	0.2	0.05	11.9	31.6	430	3.4	163	<0.002	<0.01		1.44	13	<1	8.3	13	1.07	0.05	29.1	0.19	0.68	3.7	67	32.1	16.1	23	95.6	BR07033115	
129442	0.22	0.07	11.7	32.7	380	5.8	231	<0.002	<0.01		1.36	12.1	<1	3.8	31.8	0.99	<0.05	29.8	0.186	0.74	3.8	62	12.7	15.8	27	79	BR07033115	
129443	0.7	0.06	9	11.7	180	2.3	152	<0.002	0.03		0.35	10.8	<1	0.9	20.9	0.65	<0.05	16.5	0.204	0.72	2.7	42	1.3	18	18	103.5	BR07033115	
129444	0.17	1.14	15.7	47.6	730	15.7	81	<0.002	0.01		0.27	22.6	1	3.6	246	1.07	<0.05	22.6	0.425	0.71	3.9	128	1	38.4	35	96.5	BR07033115	
129445	0.33	0.12	14.1	47.3	730	6.1	216	<0.002	0.02		0.81	19.5	<1	4.9	44.4	0.98	<0.05	23	0.374	0.77	5.3	108	7.7	18.6	51	77.7	BR07033115	
129446	0.67	0.04	12.8	43.6	800	5	236	<0.002	0.08		2.57	20.1	1	11.8	14.3	0.98	0.06	26.3	0.324	0.59	5.2	116	22.5	20.2	43	90.6	BR07033115	
129447	0.22	1.39	15.6	48.9	650	9.2	169	<0.002	0.04		0.43	19.1	1	3.5	209	1.21	<0.05	24.6	0.363	0.81	5.4	103	0.8	32.5	35	88	BR07033115	
129448	0.22	1.37	15.6	45.6	700	7.1	118.5	<0.002	0.01		0.26	17.2	1	3.1	244	1.06	<0.05	22.7	0.369	0.76	2.9	95	0.7	30.1	27	71.1	BR07033115	
129449	0.3	0.56	15.2	24.6	190	12.1	178	<0.002	<0.01		1.54	15.5	1	2.7	30.7	1.32	<0.05	23.5	0.345	0.96	3.3	62	6.9	22.8	41	120	BR07033115	
129450	0.58	0.1	10.4	56.3	390	440	198.5	<0.002	<0.01		1.74	16.6	1	5.3	42.9	0.78	0.12	25.1	0.269	1.26	4.4	84	11.8	14.1	285	89.2	BR07033115	
129451	0.29	0.11	15.5	19	430	10.4	160	<0.002	<0.01		1.1	16.1	1	49.2	43.6	1.27	<0.05	21.8	0.405	0.95	7.2	127	21.9	13.1	12	82.3	BR07033115	
129452	0.29	0.17	9.8	14.3	220	15.9	204	<0.002	<0.01		0.84	15.5	1	11.2	65.6	0.71	<0.05	22.9	0.251	1.15	3.4	61	8.4	13.5	20	142.5	BR07033115	
129453	0.34	0.07	9.4	22.2	530	7.9	101.5	<0.002	0.08		1.43	13.7	<1	28.8	24.8	0.75	0.8	19.7	0.24	0.77	3.8	104	65.3	9.3	9	68.8	BR07033115	
129454	0.29	0.09	12.9	22.9	450	4.3	150.5	<0.002	<0.01		0.42	10.8	<1	50.7	20.1	1	0.23	22.1	0.313	0.62	14	104	42.2	11.7	10	87.1	BR07033115	
129455	0.16	0.11	15.9	24.1	240	4.4	96.8	<0.002	<0.01		0.64	17.2	<1	77.6	18.3	1.04	0.09	26.8	0.372	0.63	7	109	45.3	9.1	9	91.6	BR07033115	
129456	0.33	0.14	9.8	19.2	220	14.2	93	<0.002	<0.01		1.17	15	<1	28.2	37.2	0.74	0.21	15.5	0.249	0.61	2.5	105	37.6	11.5	20	73.9	BR07033115	
129457	6.33	0.27	27.6	3.6	100	155.5	116	0.003	0.28		1.13	4.1	1	9.7	153	1.6	0.6	4.4	0.297	1.68	2.4	23	63.6	10.5	17	96.7	BR07033115	
129458	0.24	1.28	14.4	56.1	730	12.8	170	<0.002	0.03		0.31	20.4	1	4.9	248	1	0.07	21.8	0.412	0.7	3.8	114	5.6	35.2	50	70.5	BR07033115	
129459	0.71	0.49	12.3	55.2	600	49.8	76.7	<0.002	0.04		0.49	27.6	3	71.7	146	0.77	2.06	19.8	0.298	0.58	18.5	144	52.4	100	50	66.4	BR07033115	
129460	3.53	0.02	0.7	55	30	1990	8.9	<0.002	1.35		25.2	12.2	2	1.3	55	<0.05		3.07	0.9	0.007	0.31	5.3	7	6.9	51.6	9850	3	BR07033115
129461	3.06	0.07	2.3	41.5	130	14.4	12.9	<0.002	3.44		0.5	16.2	2	5.6	35.1	0.2	3.16	5.7	0.032	0.09	3.5	16	8.2	49.1	72	28.1	BR07033115	
129462	0.39	0.17	13.3	24.5	210	16.3	139.5	<0.002	0.04		1.37	7.8	1	10.3	25.4	1.09	0.09	32.1	0.189	0.66	6.8	46	19	23.8	199	82.7	BR07033115	
129463	22.7	0.02	3.6	73.2	150	509	34.3	0.007	3.95		4.85	9.2	2	11.9	16.5	0.31	2.11	10	0.062	0.24	8.5	24	13.1	33.9	122	39	BR07033115	
129464	14.55	0.05	4.7	5.6	40	23.4	73.7	<0.002	0.03		0.84	3.3	1	11.1	10.9	0.23	0.45	2.4	0.105	0.45	1.9	22	8.8	6.8	22	13.9	BR07033115	
129465	0.54	0.69	4.4	70	600	10.8	15	<0.002	0.09		0.28	43	1	114.5	93.8	0.35	0.5	12.8	0.206	0.22	3.5	207	27	45	32	54.9	BR07033115	
129466	0.22	1.31	15.5	42.3	590	9.2	95.1	<0.002	0.01		0.2	16.8	1	3.6	164.5	1.09	0.07	24.6	0.335	0.73	2.8	91	4.2	30.7	35	74.8	BR07033115	
129467	0.28	0.25	6.2	29.3	480	86.6	133.5	<0.002	0.73		1.3	21.1	1	34.7	47.9	0.4	0.26	19.7	0.149	0.56	7.2	91	22.5	18	42.9	62	BR07033115	
129468	0.56	0.4	15.2	26.7	310	12.5	96	<0.002	0.06		0.23	16.2	1	2.9	37.2	1.14	0.1	15.8	0.356	1.01	3.7	88	1.7	13.4	48	158	BR07033115	
129469	0.18	1.59	15.5	31.5	460	21.2	133.5	<0.002	0.02		0.49	11.9	1	2.9	246	1.16	<0.05	29.2	0.266	0.83	6.4	66	1	36.6	34	91.2	BR07033115	
129470	1.79	0.13	6	15	120	40.7	219	0.002	5.01		0.44	14.3	2	15.5	34.1	0.38	1.3	9.1	0.168	1	1.8	51	11.1	4.6	15	77.3	BR07033115	

Spl_ID	Mo_ppm	Na_%	Nb_ppm	Ni_ppm	P_ppm	Pb_ppm	Rb_ppm	Re_ppm	S_%	Sb_ppm	Sc_ppm	Se_ppm	Sn_ppm	Sr_ppm	Ta_ppm	Te_ppm	Th_ppm	Ti_%	Tl_ppm	U_ppm	V_ppm	W_ppm	Y_ppm	Zn_ppm	Zr_ppm	Lab Batch
129471	2.05	0.01	1.7	38.6	20	40300	2.7	0.002	6.44	13.45	11.7	4	2.5	9.9	0.13	3.72	2.6	0.014	0.19	1.3	8	3	68.6	1170	18.6	BR07033115
129472	0.35	1.25	14.1	47.5	690	60.1	145	<0.002	0.09	0.25	25.8	1	9.5	261	0.87	0.05	18.9	0.415	0.63	3.8	136	2	40.3	41	60.1	BR07033115
129473	0.32	0.28	11.4	28.2	760	14.1	100.5	<0.002	0.17	0.57	20.7	1	45.3	60.8	0.8	0.25	22.2	0.308	0.81	8.9	113	34.8	11.5	20	78.7	BR07033115
129474	0.25	0.25	9.5	27.4	760	12.2	147.5	<0.002	0.02	0.65	17.2	1	27.2	76	0.65	0.42	23.2	0.298	0.83	7.6	106	44.8	37.9	39	83	BR07033115
129475	0.37	0.13	6.8	23.6	680	8.8	77.3	<0.002	0.65	0.42	6.9	<1	29.1	29.8	0.53	0.46	25.5	0.187	0.68	4.3	65	48.9	13.2	21	79.3	BR07033115
129476	0.13	1.19	15.9	48.5	720	8.8	147	<0.002	0.07	0.12	23.2	1	3.6	260	0.9	<0.05	20.7	0.419	0.85	4.8	125	0.7	37.6	30	67.2	BR07033115
129477	0.36	0.93	15.3	65.2	740	8	107.5	<0.002	0.19	0.34	22.2	1	3.5	220	1.08	0.05	20.4	0.406	0.68	8.3	122	1.3	35.4	26	66.5	BR07033115
129478	0.84	0.31	12.3	19	190	2700	171	<0.002	0.38	2.37	14.1	1	1.8	109	0.81	0.31	19.3	0.291	1	2.9	72	2	19.5	97	136	BR07033115
129479	0.16	1.05	15.3	55.2	720	15.5	180.5	<0.002	0.04	0.29	20.1	<1	3.4	204	0.99	<0.05	21.2	0.389	0.77	3.8	111	0.9	34.4	19	66.3	BR07033115
129501	0.53	0.17	9	9.4	240	16.7	124	<0.002	0.01	0.66	9.9	<1	2.3	69.2	0.7	0.05	26.1	0.195	0.81	6	40	4	21.3	37	132.5	BR07033115
129502	0.65	0.08	11.7	14.6	240	9.9	143.5	<0.002	<0.01	1	12.9	1	3.1	89	0.81	0.07	19.3	0.224	1.32	5	58	11.4	21	43	94.1	BR07033115
129503	1.44	0.05	8.9	1.4	120	51.6	95	<0.002	0.02	0.78	8.4	1	5.6	13.5	0.71	0.71	21.1	0.097	0.9	4.9	14	6.8	19.4	8	107	BR07033115
129504	0.1	0.13	7.9	1.9	110	11.3	88.3	<0.002	0.45	0.54	6	2	29.2	66.4	0.6	2.2	9.7	0.098	1.34	2.7	15	8	10	6	83.3	BR07033115
129505	0.62	0.65	11.2	3.7	200	11	198	<0.002	0.06	0.71	11.1	1	3.2	83.6	0.84	0.26	22	0.179	1.07	5.2	41	2.6	18.9	11	111	BR07033115
129506	0.7	0.16	12.3	3.2	220	191.5	191	<0.002	0.05	0.98	9.9	1	3.8	101	1.01	0.85	30.4	0.152	1.46	6.9	32	2.8	22.5	11	98.3	BR07033115
129507	0.53	0.12	9.5	5.8	130	8.4	206	<0.002	1.29	0.65	9.2	2	17.5	50.7	0.85	0.36	33.4	0.11	1.06	5	27	8.8	18.6	6	106	BR07033115
129508	0.86	0.52	10.7	2.3	170	7.9	221	<0.002	0.8	0.68	12.8	2	17.5	55.5	0.76	0.12	24.4	0.158	1.03	5.6	24	12.9	24.2	10	143	BR07033115
129509	0.49	1.32	16.6	29.4	410	10.3	198.5	<0.002	0.02	0.43	11.9	1	4.6	214	1.26	0.13	32.6	0.253	0.77	6.4	63	1.3	42.9	24	96.6	BR07033115
129510	1.28	1.3	13.9	6.6	270	12.7	131.5	<0.002	<0.01	0.55	9	1	3.9	165.5	1.05	0.06	27.6	0.197	0.76	5.9	43	1.4	28	21	80.7	BR07033115
129511	0.71	0.16	13.1	10.8	320	13	141	<0.002	0.01	0.52	9	<1	4.2	95.2	1.02	<0.05	26.8	0.201	1.33	7.8	46	16.6	26.5	32	77.7	BR07033115
129512	0.53	0.98	15.1	9.1	300	7.8	109	<0.002	0.01	0.6	10.7	<1	7	89.9	1.13	<0.05	28.4	0.208	1	6.6	48	6.1	32.9	20	91.9	BR07033115
129513	0.65	0.76	14.2	7.7	300	37.1	216	<0.002	0.01	0.47	9.8	1	5.3	85	1.09	<0.05	27.5	0.206	0.99	6.5	48	5.2	23.4	19	80.4	BR07033115
129514	0.25	0.09	14.9	9.3	330	6	266	<0.002	0.02	0.99	10.6	1	2.7	58.5	1.17	<0.05	29.2	0.211	1.19	6.4	49	7.4	23.9	29	90.1	BR07033115
129515	0.69	0.15	15.4	11.1	330	14.1	216	<0.002	0.01	0.65	12.5	1	6.1	84.1	1.13	<0.05	26.1	0.22	1.44	7.5	56	15.6	26.1	46	87	BR07033115
129516	2.05	0.07	12.9	3.7	100	179.5	125	<0.002	<0.01	1.48	6.1	<1	7.2	39.8	0.95	<0.05	24.4	0.121	1.22	4.6	12	7.5	15.5	95	110.5	BR07033115
129517	0.55	0.57	13.9	17.5	320	24.2	180	<0.002	<0.01	0.62	11.1	1	3.5	88.9	0.98	<0.05	24.5	0.254	0.93	5	58	8.1	20.4	57	103	BR07033115
129518	0.69	0.05	12.8	2.5	170	9.5	135.5	<0.002	0.01	0.91	12.1	1	3.3	20.5	0.91	<0.05	22	0.186	0.96	5	26	7.6	31.8	25	141.5	BR07033115
129519	0.75	0.05	15.4	3.6	110	37.4	164	<0.002	<0.01	1.31	10.6	1	2.4	13.1	0.92	<0.05	17.2	0.247	0.87	3.9	31	8.9	21.6	23	122	BR07033115
129520	1.12	0.06	15.9	2.8	120	18.8	283	<0.002	<0.01	0.91	11.5	1	4	32.9	1.21	<0.05	26.3	0.174	1.11	6.5	18	7.1	26.4	23	176	BR07033115
129521	1.34	0.82	14.5	9.6	300	23.6	213	<0.002	<0.01	0.91	10.4	<1	2.9	100	1.18	<0.05	26.7	0.21	1.17	5.9	49	4.6	34.4	32	80.2	BR07033115
129522	0.39	1.13	15.4	6.5	280	21.7	216	<0.002	<0.01	0.94	8.7	1	5.8	141.5	1.25	<0.05	27.3	0.208	1.04	5.2	45	1.5	42.8	28	79.2	BR07033115
129523	1.09	0.24	13	7.5	260	7.6	262	<0.002	<0.01	1.3	9.6	<1	3.5	38.2	1.03	0.14	25.6	0.18	0.79	4.7	46	11.7	17.1	31	75.2	BR07033115
129524	0.34	0.94	14.3	7.3	260	16.6	223	<0.002	<0.01	1.38	9	<1	2.9	102	1.11	<0.05	27	0.201	0.75	5.6	45	3.6	21.4	37	75.7	BR07033115
129525	0.64	0.57	14.8	6	310	13.3	270	<0.002	<0.01	1.25	8.9	1	3.2	74.7	1.18	<0.05	27.7	0.201	0.96	5.8	47	6.1	28.8	16	78.3	BR07033115
129526	3.05	0.07	12.2	7	260	11.9	241	<0.002	0.02	1.3	7.9	<1	2.4	29.2	0.96	<0.05	24.8	0.171	0.69	5.1	43	14.8	14.4	26	67.9	BR07033115
129527	0.27	0.68	13.3	7.8	290	16.7	248	<0.002	0.03	0.74	8.6	<1	4.2	92	1.14	0.05	26	0.188	1.03	6.2	41	6.8	24.1	25	83.6	BR07033115
129528	0.42	0.08	13.6	7.9	300	15.2	273	<0.002	0.01	0.9	8.6	1	3.5	58.1	1.07	0.05	26.1	0.195	1.03	5.7	55	8.7	29.9	23	74	BR07033115
129529	0.32	0.95	14.3	6.9	280	23.1	228	<0.002	<0.01	1	9.5	1	2	165.5	1.17	<0.05	26.8	0.194	1.03	6.1	44	1.3	50.3	35	80.9	BR07033115
129530	0.46	0.72	13.7	6.2	270	10.8	266	<0.002	0.01	1.03	9.4	<1	2.1	76.1	1.15	0.3	26.4	0.189	0.96	7.1	45	2.6	26.4	20	77.3	BR07033115

Spl_ID	Mo_ppm	Na_%	Nb_ppm	Ni_ppm	P_ppm	Pb_ppm	Rb_ppm	Re_ppm	S_%	Sb_ppm	Sc_ppm	Se_ppm	Sn_ppm	Sr_ppm	Ta_ppm	Te_ppm	Th_ppm	Ti_%	Tl_ppm	U_ppm	V_ppm	W_ppm	Y_ppm	Zn_ppm	Zr_ppm	Lab Batch
129531	0.25	0.06	14.8	6.6	310	8.7	290	<0.002	<0.01	1.74	10.2	1	1.9	41	1.2	<0.05	27.6	0.207	1.06	5.7	49	5.7	23.7	24	74.4	BR07033115
129532	0.74	1.16	14.8	7.2	290	19.7	249	<0.002	0.06	2.77	9.2	1	2.3	164.5	1.19	<0.05	26.5	0.2	1.13	5.8	45	1.4	31.9	49	77.5	BR07033115
129533	0.62	0.06	12.9	5.8	230	134	241	<0.002	0.01	0.94	10.1	1	2.9	35.7	0.94	<0.05	20.6	0.216	0.92	4.4	46	6.6	30.3	106	111	BR07033115
129534	0.1	0.16	13.1	4.4	240	28	310	<0.002	<0.01	0.74	9	1	2.7	48.9	1.06	<0.05	24.8	0.193	1.27	4.7	39	5.5	26.6	24	102	BR07033115
129535	2.6	0.07	9.1	14	160	18.8	303	0.003	0.05	1.04	11.3	1	2.8	31.7	0.77	<0.05	19.8	0.159	1.13	4.9	153	3.5	18.1	26	130	BR07033115
129536	0.5	1.53	13.5	12.1	320	35.5	194.5	<0.002	0.01	0.65	10.1	1	2.5	214	1.07	<0.05	24.9	0.218	0.95	5.8	52	1.5	29.7	88	83.8	BR07033115
129537	0.23	1.55	14.4	13.4	320	33.1	191.5	<0.002	<0.01	0.97	10.6	<1	4.1	200	1.15	<0.05	25.2	0.218	1.09	5.2	52	1.7	29.2	68	89.3	BR07033115
129538	3.06	0.02	8.5	6.4	100	160500	156	<0.002	2.74	340	7.9	1	14.1	3.6	0.52	0.28	14.4	0.147	1.66	3.9	18	16.1	17.7	1750	94.6	BR07033115
129539	0.82	0.04	14.4	6	90	261	211	<0.002	0.37	3.32	6.7	1	8	14.1	1.11	<0.05	25.4	0.129	0.79	5.4	8	10.2	23.7	129	127	BR07033115
129540	1.46	0.06	11.4	6	140	80.5	255	<0.002	0.21	1.47	8.3	1	7	10.5	0.91	<0.05	23.6	0.126	0.91	5.2	36	6.3	20.8	63	109	BR07033115
129541	0.39	0.37	18	9.3	400	42.8	357	<0.002	0.01	0.97	12.9	1	4.9	62.4	1.37	<0.05	32.5	0.286	2.4	8.2	94	4.1	39.1	25	317	BR07033115
129542	0.09	0.08	13.3	2.6	50	61.5	282	<0.002	<0.01	1.87	7.5	1	4.7	23.3	1.07	<0.05	25.2	0.061	1.28	2.3	4	4.3	17	343	72.1	BR07033115
129543	7.02	0.05	10	5.3	260	1545	215	<0.002	1.38	12.4	8.9	1	6.6	14.7	0.83	0.32	18.2	0.123	1.08	5.4	21	7.6	23.1	499	119	BR07033115
129544	0.47	0.11	13.2	5.4	220	41.1	287	<0.002	0.34	2.12	7.9	1	3.7	45.1	0.96	<0.05	24.8	0.15	1.2	4.6	28	6	26	104	75.3	BR07033115
129545	0.48	1.47	14.2	8.3	300	26.7	206	<0.002	<0.01	0.77	9.2	1	2.1	154	1.12	<0.05	26.5	0.203	0.9	5.7	46	1.2	31.9	34	79	BR07033115
129546	0.27	1.38	14.2	8.6	280	26.7	186.5	<0.002	<0.01	0.6	9.1	<1	4.4	179	1.18	<0.05	28.3	0.204	1.07	5.6	46	1.1	28	81	85.7	BR07033115
129547	0.48	1.55	14.6	8.6	300	29.7	193	<0.002	0.01	0.87	9.3	<1	3	208	1.15	<0.05	27.3	0.201	0.92	6	47	1	30.8	48	81.6	BR07033115
129548	0.49	0.99	15.8	34.7	580	105.5	246	<0.002	0.03	2.18	13.6	<1	18.9	165	1.15	<0.05	25.6	0.301	1.67	6	79	1.8	30.7	200	101	BR07033115
129549	0.13	1.69	15.6	2.4	60	30.5	214	<0.002	0.01	0.45	7.4	1	2.6	207	1.16	<0.05	24.7	0.065	0.98	3.5	4	1.3	23	46	78.9	BR07033115
129550	1.09	0.05	11.1	5.4	80	35.3	248	<0.002	0.04	1.32	7.1	1	18	6.5	0.87	0.05	22.4	0.046	0.93	3.5	5	4	18	61	56	BR07033115
129551	0.72	1.59	10.6	4	300	12.4	182.5	<0.002	<0.01	0.44	11.2	<1	2.6	97.8	0.59	<0.05	18.1	0.201	0.87	2.7	38	2.5	29.5	51	61.7	BR07033115
129552	0.18	1.85	13.5	7.3	300	16.4	167.5	<0.002	<0.01	1.73	9.9	1	1.4	218	1.04	<0.05	24.7	0.196	0.86	5	51	1.2	26.2	54	64	BR07033115
129553	0.5	1.09	14.6	3.9	330	46.7	345	<0.002	<0.01	0.33	9	<1	2.1	63.2	1.55	<0.05	20.1	0.077	1.72	8.6	13	3.5	22	30	61.3	BR07033115
129554	0.28	1.02	15.9	1.6	70	41.4	253	<0.002	0.01	1.77	8	1	1.7	72.6	1.32	<0.05	25.9	0.061	1.58	4.6	4	1.5	27.2	90	75.7	BR07033115
129555	0.15	1.58	11.8	11.1	690	12.3	121.5	0.002	0.04	0.17	31.4	<1	5.5	292	1.13	<0.05	15.3	0.41	0.47	1.9	165	1	38.6	27	87.1	BR07033115
129556	0.16	1.46	12.3	12.7	700	8	129.5	0.002	0.05	0.15	27.6	<1	2.2	291	1.08	<0.05	17.3	0.423	0.44	2.8	150	0.4	34	24	86.9	BR07033115
129557	0.13	1.21	13	13.6	630	43	150.5	<0.002	0.02	0.23	25.8	<1	2.5	238	1.07	<0.05	17.4	0.42	0.54	3.9	148	0.4	41	51	73.2	BR07033115
129558	2.15	0.03	6.7	3.6	100	17.8	24.6	0.016	0.1	2.2	8	3	385	3.9	0.2	3.87	4.8	0.015	0.2	3.8	106	325	104	3	8.5	BR07033115
129559	0.16	1.26	13.8	14.2	690	10.5	123	<0.002	0.02	0.16	30.7	<1	2.8	314	1.01	<0.05	15.1	0.452	0.39	2.7	154	2.4	39.5	24	87.5	BR07033115
129560	0.29	0.12	9.4	4.7	550	5.8	296	0.003	<0.01	0.4	10.9	<1	7.7	61.9	0.7	<0.05	17	0.247	1	4.2	35	6.4	39.8	16	87.3	BR07033115
129561	0.55	0.1	11.6	9.8	820	14.9	324	0.002	<0.01	3.53	27.1	1	10.7	54.2	0.87	0.09	18.5	0.381	0.96	14.8	137	19.9	45.8	11	99.4	BR07033115
129562	0.73	0.17	12.1	6.9	140	19.7	296	<0.002	<0.01	3.2	9.3	2	19.8	120.5	0.99	0.14	25.7	0.412	1.55	7.1	68	21.8	32.4	20	97.2	BR07033115
129563	1.43	0.04	14.5	13.8	200	95.9	287	0.003	<0.01	0.55	9.1	<1	8.5	17.7	1.31	0.06	30.9	0.153	0.85	6.1	29	11.4	19.8	13	71.6	BR07033115
129564	0.2	0.06	20.8	9	160	11.9	220	<0.002	<0.01	0.89	10.3	<1	1.9	12.2	1.84	<0.05	41.7	0.22	0.88	3	20	18.2	8	9	98.1	BR07033115
129565	0.55	0.03	16.4	18.8	330	7.2	257	0.002	<0.01	1.05	16.7	<1	4.6	12	1.36	<0.05	31.9	0.271	0.9	8.5	68	19.4	32.7	11	107	BR07033115
129566	0.7	0.03	16.7	16.2	70	13.5	269	<0.002	<0.01	1.54	16.5	<1	3.4	6.3	1.32	<0.05	32.5	0.301	1.02	4	46	7.5	15.7	11	105	BR07033115
129567	0.74	0.04	16.1	39.3	500	7	294	0.002	<0.01	1.71	23.7	<1	4.5	17.9	1.17	<0.05	22.5	0.408	0.8	4.6	94	19.9	34.5	32	89.1	BR07033115
129568	0.41	0.51	15.1	44.3	660	7.4	227	<0.002	<0.01	0.72	22.5	<1	6.3	115	1.19	<0.05	21.5	0.41	0.66	4	118	10.7	43.4	34	89.5	BR07033115
129569	10.55	0.04	11.6	37.6	500	4.8	197	0.002	<0.01	0.61	16.2	1	10.6	38.8	0.65	0.06	22.7	0.261	0.77	18.7	105	8.2	41.2	34	98.4	BR07033115

Spl_ID	Mo_ppm	Na_%	Nb_ppm	Ni_ppm	P_ppm	Pb_ppm	Rb_ppm	Re_ppm	S_%	Sb_ppm	Sc_ppm	Se_ppm	Sn_ppm	Sr_ppm	Ta_ppm	Te_ppm	Th_ppm	Ti_%	Ti_ppm	U_ppm	V_ppm	W_ppm	Y_ppm	Zn_ppm	Zr_ppm	Lab Batch
129570	0.41	0.02	19.2	39.7	730	5.3	243<0.002	<0.01		0.84	21.2<1		3.5	11.6	1.28	0.07	20.9	0.445	0.79	4.8	133	2.1	26.2	89	112	BR07033115
129571	0.34	0.04	14.8	61.5	580	5.3	236<0.002	<0.01		0.74	21.6	1	7.4	31.5	1.11	<0.05	26.3	0.356	0.8	4.4	80	15.2	36	42	97	BR07033115
129572	0.29	0.93	15.6	47.3	620	5.1	160<0.002		0.01	0.2	21.2<1		3	226	1.1	<0.05	23.3	0.373	0.54	4.9	106	0.6	38.6	21	95.9	BR07033115
129573	1.44	1.22	17.5	49.9	740	7.6	163.5	0.002	0.11	0.23	26.3<1		4	256	1.2	<0.05	20	0.404	0.51	4.6	122	0.7	46.1	19	95.5	BR07033115
129574	0.6	0.04	11.4	7.5	10	6.2	268	0.003	<0.01	0.54	4.9<1		24.5	4.7	0.92	<0.05	17.8	0.129	0.85	2.6	23	36.8	4.8	11	74.7	BR07033115
129575	0.45	0.9	11.3	29.6	340	11.4	184<0.002	<0.01		0.65	14.8<1		2.5	39.7	0.83	0.05	17.9	0.241	0.62	3.4	73	2.4	32.2	46	87	BR07033115
129576	0.42	1.15	14.5	8.5	310	12.1	232	0.002	<0.01	0.61	10.9	1	3.8	106	1.17	<0.05	28.4	0.204	0.98	5.4	46	2.9	43.6	33	80.3	BR07033115
129577	0.93	1.31	14.3	8	310	201	246	0.002	0.3	1.86	10.4	1	8.1	102.5	1.16	0.15	29.3	0.194	1.08	5.7	41	2.5	34	36	85.4	BR07033115
129578	0.62	1.55	14.5	7.7	300	23.5	219	0.002	0.01	0.92	10.8<1		1.8	148	1.14	<0.05	27.5	0.203	0.97	5.9	48	1.5	34.1	50	82.3	BR07033115
129579	1.01	1.55	14.2	6.6	280	27.2	187	0.002	<0.01	0.45	10.6<1		1	226	1.12	<0.05	26.2	0.205	0.73	5.6	49	1.1	33.4	56	77.5	BR07033115
129580	0.25	0.9	11.8	19.9	440	14	195<0.002		0.09	1.09	15.1<1		5.3	67.1	0.89	0.26	19.9	0.246	1.03	3.8	81	3.5	26.3	110	177.5	BR07033115
129581	0.64	0.04	13.8	5	100	5	220<0.002		0.01	0.79	7.3<1		11.1	14.1	1.09	<0.05	25.2	0.125	0.68	5.2	10	16.3	20.7	42	133	BR07033115
129582	0.57	0.2	11.2	9.3	770	24.3	305<0.002		0.13	1.3	3.2	1	20.7	83.6	0.81	0.15	24.3	0.328	1.63	8.1	39	30.6	13.8	14	91.8	BR07033115
129583	0.81	1.58	14.6	11.2	300	16.3	190.5	0.002	<0.01	0.68	11.3<1		2.8	211	1.16	<0.05	27.8	0.208	0.95	6	48	1.5	32.8	25	90.1	BR07033115
129584	0.41	0.05	1.4	2.6	50	10.2	25.9<0.002	<0.01		0.32	1.2<1		2.6	7.4	0.08	0.11	1.8	0.022	0.12	0.3	5	1.2	4.1	6	10.7	BR07033115
129585	0.26	0.23	11.7	23.7	590	6.5	250<0.002		0.25	0.51	10.7<1		17.2	78.9	0.89	0.19	25.4	0.248	0.82	12.7	67	29.1	33.3	32	91.1	BR07033115
129586	0.29	0.62	13.5	29	430	8	230<0.002		0.01	0.4	10<1		9.3	69.1	1.09	0.11	26.6	0.23	0.7	5.4	57	32.2	22.4	39	98.3	BR07033115
129587	0.36	0.15	7.7	10.9	160	12.4	230	0.003	0.01	0.43	4.1<1		17.6	46	0.68	0.38	21.9	0.136	0.71	4.8	31	26.7	14.4	18	83.3	BR07033115
129588	0.26	2.18	13.6	26.7	420	7.1	90.6<0.002	<0.01		0.18	12.8<1		1.7	260	1.12	<0.05	28.7	0.248	0.37	4.4	65	1.6	34.2	16	98.7	BR07033115
129589	0.13	2.12	13.2	25	410	8.5	90.6	0.003	<0.01	0.25	12.3<1		1.9	260	1.16	<0.05	29.8	0.24	0.36	5.1	60	2.5	43.3	18	94.9	BR07033115
129590	0.52	1.63	15.4	11.7	340	31	207	0.002	<0.01	1.07	11.6	1	3.3	206	1.41	<0.05	28.6	0.231	1.12	6.9	53	1.6	35.4	63	98.8	BR07033115
129591	0.52	0.08	13.9	10.5	250	23.6	300<0.002	<0.01		7.42	10.3<1		3.3	29	1.25	<0.05	27.7	0.208	1.93	5.2	48	4.2	18.3	132	84	BR07033115
129592	0.67	1.65	15	7.2	320	20.2	185<0.002	<0.01		0.53	10.3<1		3.1	215	1.29	<0.05	28.2	0.214	0.84	6.5	48	1.5	32.8	45	80.5	BR07033115
129593	0.67	1.73	16	6.6	320	15.8	203	0.002	<0.01	0.55	10.5<1		2.9	218	1.36	<0.05	29.9	0.181	0.8	6.7	40	1	35.1	25	85	BR07033115
129594	0.2	0.09	14.3	9.1	350	9.6	262	0.002	<0.01	1.31	9.8<1		3.7	43.6	1.26	<0.05	28.6	0.208	1.08	4.6	42	7.5	23.3	29	79.7	BR07033115
129595	0.27	0.76	14	6.9	320	13.1	245<0.002	<0.01		0.94	9.6<1		2.4	87.4	1.24	<0.05	27	0.205	1.08	6.4	44	2	27.1	36	83.9	BR07033115
129596	0.17	1.98	15.9	3.3	310	20.9	157<0.002	<0.01		0.6	12<1		3.6	68.5	1.24	<0.05	31.4	0.182	0.74	5.5	22	2.6	25.4	48	117.5	BR07033115
129597	0.76	1.75	12.9	0.8	60	40.8	223<0.002	<0.01		0.54	9.3	1	4.8	94.4	1.34	<0.05	29.9	0.07	1.4	6.1	3	1.6	36.4	20	85.5	BR07033115
129598	0.2	2.17	10.7	3.2	160	16.1	171<0.002	<0.01		0.27	7.8	1	1.9	163	0.92	<0.05	21.1	0.111	0.74	2.4	17	1.2	33.4	69	71.3	BR07033115
129599	0.42	1.9	13.8	11.1	220	7	193.5	0.002	<0.01	0.25	8.1<1		3.9	132	1.29	<0.05	29.5	0.176	0.89	4.7	35	1.3	28.3	22	94.4	BR07033115
129600	5.15	1.67	15.7	31.3	440	9.6	199.5	0.003	0.01	0.27	12.8<1		5.4	206	1.32	<0.05	28.8	0.261	0.74	5.3	66	1.5	32.4	23	92.9	BR07033115

Spl_ID	Ce_ppm	Dy_ppm	Er_ppm	Eu_ppm	Gd_ppm	Ho_ppm	La_ppm	Lu_ppm	Nd_ppm	Pr_ppm	Sm_ppm	Tb_ppm	Th_ppm	Tm_ppm	U_ppm	V_ppm	Yb_ppm	Lab Batch
129301	101	5	3	1.3	6.1	1	43	0.5	37.1	9.7	7	1	25	0.5	4.2	28.5	3.2	BR07033115
129302	102	4.8	2.7	1.4	6.4	1	47.7	0.4	40	10.5	7.4	1	21	0.4	4.6	27	2.9	BR07033115
129303	87.1	5.8	3.3	1.6	7.2	1.2	42.1	0.5	40.3	10	8	1.1	21	0.5	4.5	34.4	3.3	BR07033115
129304	93	4.8	2.8	1.2	6.1	0.9	45.8	0.5	38.2	9.9	6.9	0.9	26	0.4	4.6	28.5	2.9	BR07033115
129305	116	6.7	3.9	1.8	8.5	1.3	58.8	0.6	50.7	13	9.4	1.3	21	0.6	4.1	39.1	3.7	BR07033115
129306	66.8	4.7	2.7	1.1	5.2	0.9	31	0.5	27	7	5.6	0.9	24	0.4	5.2	26.9	3	BR07033115
129307	58.7	5.3	3	1.2	5.6	1	29.5	0.5	27.1	6.8	5.9	1.1	24	0.5	4.1	29.1	3.3	BR07033115
129401	89.9	3.4	1.7	1.7	5.6	0.6	41.8	0.3	34	8.9	6.4	0.8	24	0.3	6.6	16.2	1.9	BR07033115
129402	238	4.1	1.8	3.8	9.4	0.7	110.5	0.3	78.3	21.5	12.8	1.1	21	0.3	9.3	16.6	1.9	BR07033115
129403	231	4	1.8	4	12	0.6	105.5	0.3	95.8	24.5	16.8	1.2	19	0.3	3	16.2	1.8	BR07033115
129404	45.8	4.8	3.2	1.4	4.7	1.1	25.7	0.5	23.8	6	5	0.8	16	0.5	4.7	30.8	3.5	BR07033115
129405	146.5	6.5	3.4	1.8	9.7	1.2	73.1	0.5	59.6	15.5	10.5	1.4	26	0.5	4.8	34.9	3.4	BR07033115
129406	53.9	4.8	2.9	1	5.2	1	31.7	0.5	27.8	7.1	5.6	0.9	9	0.5	3.3	29	3.1	BR07033115
129407	12.6	2.7	1.7	1.3	2.3	0.5	6.5	0.3	6.4	1.5	2.1	0.5	29	0.3	7.7	16.4	2	BR07033115
129408	89.2	6.2	3.2	2.1	8.5	1.2	56.9	0.5	50.4	13.1	9.7	1.3	19	0.5	4.3	29.5	3.3	BR07033115
129409	107.5	5	2.7	2	7.6	0.9	47.5	0.4	45.9	11.3	8.7	1.1	24	0.4	5.3	24	2.5	BR07033115
129410	121	5.9	3.3	1.6	7.8	1.1	56.1	0.5	48.1	12.5	8.9	1.2	22	0.5	4.2	34.2	3.4	BR07033115
129411	101	5.8	3.2	1.5	7	1.2	47.1	0.5	41.2	10.7	7.9	1.1	21	0.5	5.1	34.4	3.3	BR07033115
129412	105	5.6	3.2	1.5	6.9	1.1	50	0.5	41.5	10.9	7.7	1	22	0.5	5.9	32.4	3.3	BR07033115
129413	78.3	4.3	2.5	1.1	5.9	0.9	35.8	0.4	34	8.8	6.5	0.9	24	0.4	5	28.1	2.4	BR07033115
129414	119.5	6.3	3.6	1.6	7.9	1.2	60.5	0.5	47.5	12.8	8.7	1.2	26	0.5	5.1	36.3	3.8	BR07033115
129415	116	5.7	3.3	1.4	7.3	1.1	54.6	0.5	43.8	11.7	7.9	1.1	25	0.5	4.5	33.3	3.4	BR07033115
129416	170	9.6	4.8	2.6	13.3	1.8	89	0.8	76.8	19.7	14.7	2	27	0.7	9.8	48.8	5.1	BR07033115
129417	117.5	7.6	4.6	1.9	8.1	1.6	56.8	0.7	45.6	12.2	8.8	1.4	22	0.7	6.8	45.9	4.8	BR07033115
129418	87.6	7.4	4.8	1.3	7.1	1.6	39.5	0.7	36.5	9.3	7.2	1.3	24	0.7	4.7	47	5.1	BR07033115
129419	97.2	14.3	10.1	1.6	10.4	3.3	45.4	1.6	40.2	10.2	8.6	2.2	17	1.6	16.4	104.5	11.2	BR07033115
129420	73.1	5.6	3.3	1.8	5.7	1.1	33.3	0.5	29.2	7.5	6	1	23	0.5	3.9	34.2	3.5	BR07033115
129421	118.5	9	5.1	2.2	9.7	1.8	53.3	0.7	50	12.7	10.3	1.7	24	0.8	3.6	52.1	4.7	BR07033115
129422	202	4.3	2.2	3.3	11	0.8	88.1	0.3	86.5	21.7	15.3	1.2	19	0.3	2.3	21.8	2	BR07033115
129423	74.7	8	4.9	1.1	7.3	1.7	30.2	0.8	30.7	7.6	7.3	1.4	28	0.8	5.2	50.7	5.1	BR07033115
129424	81.3	8	5	1.2	7.7	1.7	38.2	0.8	34.4	8.9	7.5	1.4	27	0.7	4.5	49.2	5.2	BR07033115
129425	125	8	5	2.5	9	1.6	58.1	0.9	49.6	12.9	9.6	1.5	28	0.8	7.8	48.3	5.6	BR07033115
129426	134	6.5	3.8	1.8	8.2	1.3	63.5	0.6	47.9	13	8.9	1.2	22	0.6	5.5	37.9	3.8	BR07033115
129427	153	4.4	2	2.1	7.5	0.7	75	0.3	54.3	14.9	9.2	1	26	0.3	4	20.8	2	BR07033115
129428	169.5	7.9	4.6	2.4	10.6	1.6	82.4	0.7	63.8	17.1	11.7	1.6	26	0.7	5.9	47.8	4.6	BR07033115
129429	13.2	2.2	1	0.5	1.7	0.4	6.5	0.1	5.4	1.5	1.7	0.4	3	0.1	5.3	9.2	1.2	BR07033115
129430	136	5.1	3.1	1.9	7.1	1	74.1	0.5	41.4	12.1	7.5	1	26	0.5	5.5	32.9	3.4	BR07033115
129431	110.5	6.9	4	1.5	8.2	1.4	59.3	0.6	42.4	11.5	8.3	1.4	23	0.6	5.7	43.3	4	BR07033115

Spl_ID	Ce_ppm	Dy_ppm	Er_ppm	Eu_ppm	Gd_ppm	Ho_ppm	La_ppm	Lu_ppm	Nd_ppm	Pr_ppm	Sm_ppm	Tb_ppm	Th_ppm	Tm_ppm	U_ppm	Y_ppm	Yb_ppm	Lab Batch
129432	120.5	6	3.8	1.3	7.4	1.3	57.1	0.6	42.4	11.5	8.1	1.2	21	0.6	5.4	40.4	4.1	BR07033115
129433	151.5	5.9	3.6	2.6	9.2	1.2	70.3	0.5	53.9	14.9	10.1	1.3	21	0.5	5.7	35.7	3.9	BR07033115
129434	69.8	3.2	1.8	1.3	4.8	0.6	36.9	0.3	26.4	7.2	5	0.7	11	0.3	2.9	19.2	2	BR07033115
129435	155	3.5	2	1.6	6.6	0.7	78.4	0.3	48.9	14.5	8.4	0.9	23	0.3	4.9	19.6	2.1	BR07033115
129436	140	10.7	6.4	2.4	12.5	2.2	89.6	0.9	64.8	18.1	12.9	2.1	27	0.9	5.2	73.9	6.5	BR07033115
129437	108	6.1	3.8	1.7	7.6	1.3	61.7	0.6	47	12.8	8.7	1.2	27	0.5	5.8	39.3	4	BR07033115
129438	136	7.1	4.1	1.9	9.7	1.4	75.8	0.6	57.2	15.9	10.6	1.5	27	0.6	5.7	46.7	4.3	BR07033115
129439	217	7.6	4.4	3.2	12.1	1.5	112.5	0.5	83.4	24.2	14.9	1.6	24	0.6	6	45.1	4	BR07033115
129440	111.5	5.6	3.4	1.7	7.6	1.1	59.2	0.5	45.7	12.8	8.4	1.2	26	0.5	4.8	34.8	3.6	BR07033115
129441	162	5.1	2.9	2.5	8.4	1	76.5	0.4	58.1	16.3	10.3	1.2	25	0.4	3.7	30.6	2.9	BR07033115
129442	172.5	5.8	3.1	2.5	9.2	1.1	88.5	0.4	62.6	17.6	11	1.3	25	0.4	3.9	34.5	3.1	BR07033115
129443	63	5.5	3.6	0.6	5.1	1.2	29.6	0.6	23.7	6.8	4.7	1	15	0.6	3	39.2	4	BR07033115
129444	96.3	6.9	3.9	1.8	8.5	1.4	40.7	0.6	42.5	10.9	9.1	1.3	20	0.6	4.1	43	4.1	BR07033115
129445	57.7	3.9	2.5	0.9	4.3	0.8	24.9	0.4	24.2	6.5	4.9	0.7	21	0.4	5.4	22.2	2.7	BR07033115
129446	158.5	4.9	2.8	1.6	7.8	0.9	68.3	0.4	60.1	17.1	9.8	1.1	25	0.4	5.6	27	2.9	BR07033115
129447	104.5	5.8	3.5	1.7	8	1.2	51.3	0.5	44.1	11.7	8.5	1.2	21	0.5	5.2	38.8	3.4	BR07033115
129448	90.4	5.3	3	1.5	7	1.1	42.5	0.4	37.3	9.7	7.4	1.1	18	0.4	2.8	33.7	3	BR07033115
129449	90.5	4.4	2.6	0.9	5.4	0.8	43.8	0.4	31.3	8.9	5.9	0.8	20	0.4	3.2	26.5	2.7	BR07033115
129450	19.9	2.2	1.4	0.7	2.4	0.5	12.3	0.2	10.8	2.7	2.2	0.4	22	0.2	4.2	15.6	1.7	BR07033115
129451	114.5	3.3	1.6	2.2	7.1	0.5	54.2	0.2	48.4	12.7	9.2	0.9	19	0.2	7	14.9	1.7	BR07033115
129452	39.5	3.1	2	1.3	3.5	0.7	20.7	0.4	16.5	4.5	3.4	0.6	21	0.3	3.4	19.4	2.4	BR07033115
129453	198	2.8	1.3	3	9.9	0.4	91.1	0.1	82.8	22.1	14.8	1	17	0.1	3.7	10.5	1.1	BR07033115
129454	12.7	2.6	1.6	0.6	2	0.5	5.8	0.3	6	1.4	1.8	0.5	20	0.2	13.4	13.2	1.9	BR07033115
129455	14.7	2.1	1.3	0.6	2.2	0.4	9.8	0.2	9.7	2.6	2.3	0.4	23	0.2	6.8	11.8	1.5	BR07033115
129456	27.5	4.2	2.4	1.3	5.1	0.8	40.6	0.4	33.4	9.5	6.5	0.9	14	0.3	2.6	21	2.7	BR07033115
129457	8.6	3.6	3.1	1.5	1.6	0.9	5.2	0.6	3.6	0.9	1	0.5	4	0.5	2.7	29.2	4	BR07033115
129458	95.6	6.6	3.8	1.7	7.7	1.3	38.6	0.5	39.4	9.8	8.3	1.2	19	0.5	3.6	39.4	3.8	BR07033115
129459	44.9	26.3	18.4	4.9	16	6	40	3.8	27.7	7.5	8.3	4	17	3	17.7	171.5	25.3	BR07033115
129460	37.6	25.2	15.6	4.9	15.9	5.4	17	2.9	19.9	4.5	7.6	4.1	1	2.5	5.6	161.5	18.9	BR07033115
129461	256	25.3	14.6	7.5	25.9	5.2	115.5	2.3	109	27.9	23.7	4.7	5	2.2	3.8	152.5	15.4	BR07033115
129462	159.5	5.5	2.9	2.1	8.5	1	73.4	0.4	53.3	14.8	9.9	1.3	27	0.4	6.5	32.2	3.2	BR07033115
129463	43.6	11.3	7	2.4	8.3	2.4	20.4	1.4	20.1	4.8	5.8	1.9	8	1.1	8.3	72.4	9.1	BR07033115
129464	12.8	1.9	1.1	0.6	1.7	0.4	5.9	0.1	5.6	1.4	1.7	0.3	2	0.1	1.9	13.2	1	BR07033115
129465	25.1	11	7.6	1.1	6.7	2.5	11.9	1.2	12	2.9	3.5	1.7	10	1.2	3.7	75	8.2	BR07033115
129466	123	5.5	3.4	1.9	8.4	1.1	65.1	0.5	51.1	14.1	9.4	1.2	22	0.5	3.1	35.3	3.2	BR07033115
129467	139	5.6	3	3.3	10.3	1	57.9	0.5	64.8	15.9	13.1	1.4	17	0.4	7	29.4	3.3	BR07033115
129468	146	7.7	4.6	1.9	10.3	1.6	82.9	0.6	60.9	17.3	11.2	1.6	26	0.6	4.3	47.5	4.6	BR07033115
129469	117	6.5	3.8	1.7	8.3	1.3	63.4	0.5	49.6	13.9	9.2	1.3	26	0.6	6.7	43.5	3.9	BR07033115
129470	18.8	1	0.8	0.7	1.2	0.2	9.7	0.2	6.5	2	1.2	0.2	10	0.1	1.9	7.1	1.1	BR07033115

Spl_ID	Ce_ppm	Dy_ppm	Er_ppm	Eu_ppm	Gd_ppm	Ho_ppm	La_ppm	Lu_ppm	Nd_ppm	Pr_ppm	Sm_ppm	Tb_ppm	Th_ppm	Tm_ppm	U_ppm	V_ppm	Yb_ppm	Lab Batch
129471	83.8	16.8	10.5	4.7	15.1	3.4	34.4	2.3	40.1	9.7	11.8	3.1	2	1.7	1.4	104.5	13.9	BR07033115
129472	110	7.6	4.4	1.8	9	1.5	49.9	0.6	46.4	12.1	9.4	1.5	18	0.6	3.7	47	4.5	BR07033115
129473	22.4	2.4	1.4	1.3	3	0.5	13.5	0.2	14.2	3.5	3.3	0.5	19	0.2	8.5	13.7	1.5	BR07033115
129474	31.7	6.6	4.4	1.5	5.9	1.5	22.9	0.7	23.7	5.9	5.1	1.1	19	0.7	7.6	45.1	4.9	BR07033115
129475	22.2	2.1	1.4	0.7	2.8	0.4	12.9	0.2	11.8	2.9	2.7	0.4	22	0.2	4.3	15.8	1.5	BR07033115
129476	103	6.8	3.9	1.7	8.5	1.3	45.9	0.5	43.5	11.3	9	1.4	18	0.6	5.1	42.8	3.9	BR07033115
129477	101	6.4	3.9	1.7	7.7	1.3	44.5	0.6	43.3	11.1	8.6	1.3	18	0.6	8.3	40.9	4.1	BR07033115
129478	99.1	5.7	3.4	1.7	7	1.2	49.8	0.6	37	10.3	7.3	1.1	17	0.5	3.1	35.6	3.9	BR07033115
129479	77.6	5.9	3.7	1.6	7.4	1.2	36.5	0.5	37.3	9.5	7.8	1.2	18	0.5	3.8	37.4	3.6	BR07033115
129501	132.5	6.7	4.6	1.5	8.2	1.5	65.2	0.7	49.5	14.1	9.2	1.4	25	0.7	6.4	47.8	4.8	BR07033115
129502	72.5	4.5	3.1	1.5	5.5	1	35.4	0.5	29.4	7.9	5.9	0.9	17	0.5	5.5	29.9	3.3	BR07033115
129503	148.5	5.4	3.1	2.1	8.6	1	71.6	0.5	54.7	15.3	10	1.2	18	0.5	5.1	33.3	3.4	BR07033115
129504	84	2.5	1.7	1.7	4.4	0.5	41.6	0.3	29.7	8.4	5.3	0.6	8	0.2	2.8	16	1.9	BR07033115
129505	89.5	4.5	2.8	1.5	5.3	0.9	43.8	0.5	30.6	8.8	5.7	0.9	19	0.4	5.3	28.1	3.1	BR07033115
129506	113	5.2	3.2	1.5	7.1	1	66	0.5	45.7	13.4	8.2	1.1	25	0.5	6.7	32.2	3.6	BR07033115
129507	149.5	6.5	4.3	1.9	8.2	1.4	74.4	0.7	50.3	14.8	8.9	1.2	30	0.6	5	45.2	4.7	BR07033115
129508	113	5.8	3.7	1.5	8.1	1.1	61.1	0.6	47.9	13.2	8.9	1.2	21	0.5	5.6	35.1	3.7	BR07033115
129509	120.5	7.1	4.4	1.9	9.5	1.5	71.4	0.6	55.2	15	10.1	1.5	29	0.6	6.7	48.4	4.3	BR07033115
129510	122	5.2	3.2	1.6	7	1	61.9	0.5	45.8	12.8	8	1.1	24	0.5	6	34	3.4	BR07033115
129511	134.5	5.2	2.9	1.4	7.7	1	64.3	0.5	47.3	13.5	8.4	1.1	24	0.4	8.1	31.4	3.1	BR07033115
129512	105.5	5.2	3.3	1.5	6.9	1.1	58.1	0.5	41.8	11.9	7.4	1.1	24	0.5	6.3	34.6	3.7	BR07033115
129513	105	4.5	2.8	1.4	6.3	0.9	52.9	0.4	39.6	11.3	7.1	0.9	25	0.4	6.7	28.6	3.1	BR07033115
129514	111.5	4	2.6	1.7	5.9	0.8	52.7	0.5	39.3	11.5	6.9	0.9	25	0.4	6.2	26.8	3	BR07033115
129515	120.5	4.5	2.8	1.6	6.2	0.9	58.4	0.4	42.9	12.1	7.1	0.9	23	0.4	7.5	27.8	3.1	BR07033115
129516	104	4.9	2.9	1.5	6.6	1	51.1	0.4	39.8	11.2	7.3	1	20	0.4	4.6	29.2	2.9	BR07033115
129517	74.8	4	2.3	1.3	6	0.8	40.5	0.4	34.9	9.3	6.7	0.8	20	0.3	4.8	24.1	2.4	BR07033115
129518	73.1	8.1	5	1.7	8.6	1.7	45.1	0.7	42	10.9	8.5	1.5	19	0.7	4.9	55.2	5	BR07033115
129519	89.6	10.1	5.6	2	9	2	51.1	0.5	40.2	10.8	8.8	1.8	15	0.8	4.1	57.4	4.8	BR07033115
129520	96.6	7.1	4.9	1.2	6.8	1.6	43.7	0.7	34.6	9.6	6.6	1.3	24	0.8	6.9	49.9	5	BR07033115
129521	117.5	6.3	3.7	1.8	8.3	1.3	67.4	0.6	48.1	13.7	8.5	1.2	25	0.5	6.4	40.5	3.8	BR07033115
129522	112.5	7.4	4.5	2.1	9.5	1.5	80.8	0.7	58.4	16.4	10.4	1.5	26	0.7	5.9	51.7	4.7	BR07033115
129523	77.2	3.3	2	0.9	4.4	0.7	41.3	0.3	28.8	8.5	5.1	0.7	24	0.3	5.2	20.8	2.2	BR07033115
129524	105.5	4.5	2.9	1.2	5.5	0.9	46.6	0.4	33.2	9.4	5.8	0.8	27	0.4	6.3	27.8	3.2	BR07033115
129525	114.5	5.5	3.3	1.6	7.4	1.1	64	0.5	47.1	13	8	1.1	27	0.5	6.4	36.2	3.6	BR07033115
129526	121	3	1.9	1.2	5.1	0.6	58.1	0.3	39.5	11.6	6.3	0.7	25	0.3	5.9	18.7	2.1	BR07033115
129527	167	5.1	3.1	2.1	8.4	1	85.7	0.5	56.9	16.5	9.5	1.1	26	0.4	7	30.6	3.4	BR07033115
129528	115	6.2	3.7	2	8.4	1.2	62.5	0.5	48.7	13.2	8.7	1.2	27	0.5	6.5	42.6	3.8	BR07033115
129529	155.5	8.6	5.2	2.3	12	1.8	101	0.7	69.7	19.5	11.7	1.8	26	0.7	6.5	57.8	5.3	BR07033115
129530	108.5	5.3	3.2	1.6	7.6	1	65.7	0.5	50.3	14.2	9	1.1	26	0.5	7.9	31.8	3.3	BR07033115

Spl_ID	Ce_ppm	Dy_ppm	Er_ppm	Eu_ppm	Gd_ppm	Ho_ppm	La_ppm	Lu_ppm	Nd_ppm	Pr_ppm	Sm_ppm	Tb_ppm	Th_ppm	Tm_ppm	U_ppm	V_ppm	Yb_ppm	Lab Batch
129531	162.5	4.8	2.9	1.7	7.3	1	72.4	0.5	51.7	15.1	8.6	1	27	0.4	6.4	30	3.1	BR07033115
129532	123	5.1	3.2	1.5	7.1	1.1	59.3	0.5	42	12.1	7.6	1.1	25	0.5	6.3	36.3	3.5	BR07033115
129533	90	7.8	4.5	2	9.6	1.5	59.7	0.7	49.9	13.2	9.7	1.5	21	0.7	4.9	43.2	5.2	BR07033115
129534	121	6.4	4.1	1.6	8	1.3	58.7	0.6	44.1	12.4	8.4	1.2	24	0.6	5.4	43.4	4.1	BR07033115
129535	101.5	5	3.1	1.2	6.4	1.1	48.4	0.5	36.1	10	6.7	1	20	0.5	5.5	34.4	3.6	BR07033115
129536	122	5.4	3.3	1.5	6.7	1.1	58.9	0.5	41.9	11.8	7.5	1.1	25	0.5	6.5	36.2	3.5	BR07033115
129537	115	5.1	3.2	1.4	6.5	1	56.4	0.5	40.5	11.3	7.3	1	25	0.5	5.6	34	3.3	BR07033115
129538	87.4	4.8	2.9	1.5	6	1	44.6	0.4	33.3	9	6.3	0.9	14	0.4	4.4	30.5	3.1	BR07033115
129539	110.5	6.8	4.1	1.5	7.6	1.4	51.1	0.6	40.9	11.3	7.6	1.2	24	0.6	6	46.4	4.3	BR07033115
129540	92.9	5	3.2	1.1	6.3	1	46	0.5	35.6	9.7	6.7	1	21	0.5	5.6	33.9	3.6	BR07033115
129541	201	9.3	5.9	2.2	12.5	1.9	97.3	0.9	73.4	20.5	13.3	1.9	39	0.9	9.9	60.9	6.1	BR07033115
129542	105.5	5.7	3.8	1.1	6.8	1.2	49.6	0.5	39.1	10.5	7.2	1.1	24	0.5	2.5	41	4	BR07033115
129543	151	6.1	3.8	1.4	8.8	1.3	68.9	0.5	57	15.9	10	1.3	17	0.5	5.7	41	3.7	BR07033115
129544	169	5.4	3.3	2.1	7.9	1.1	83.4	0.5	54.2	15.7	9.1	1.1	22	0.5	5.2	36.5	3.5	BR07033115
129545	124	5.3	3.4	1.5	7.4	1.1	64.3	0.5	44.1	12.7	7.8	1.1	25	0.5	6.3	37.3	3.4	BR07033115
129546	115	5.2	3.3	1.5	6.3	1.1	50	0.5	37.8	10.6	6.8	1	27	0.5	6	34.1	3.6	BR07033115
129547	126	5.5	3.3	1.5	7	1.1	59.8	0.5	43	12.3	7.5	1.1	26	0.5	6.5	37.5	3.5	BR07033115
129548	123.5	6.1	3.7	1.7	7.6	1.2	56.9	0.5	45.7	12.6	8.7	1.2	27	0.5	7	39.9	3.9	BR07033115
129549	112	6.2	3.8	1.6	7.7	1.3	53.9	0.5	42.9	11.6	8.3	1.2	24	0.6	4	41.5	4	BR07033115
129550	141.5	5.1	2.9	1.6	8.6	1	67.5	0.4	59.4	16.1	10.4	1.2	21	0.4	3.8	32.5	2.9	BR07033115
129551	106	5.4	3.2	1.3	7.7	1.1	56.6	0.4	46	12.5	8.1	1.1	18	0.4	3.1	36	2.9	BR07033115
129552	120.5	4.6	2.9	1.5	6.3	1	58.4	0.4	41.3	11.6	7.2	1	23	0.4	5.3	31.3	3	BR07033115
129553	51.1	6.6	4.7	0.7	4.9	1.5	25.2	0.8	19.8	5.6	4.5	1.1	20	0.8	10.1	49.7	5.5	BR07033115
129554	126.5	8	4.9	1.7	9.6	1.6	61.2	0.7	48.3	13.2	9.7	1.5	27	0.7	5.7	52.9	4.7	BR07033115
129555	91.9	6.5	3.7	1.8	7.7	1.4	42.4	0.6	40	10	8.3	1.2	14	0.6	2.1	36.5	3.7	BR07033115
129556	95.5	5.5	3.1	1.5	7.3	1.1	46.5	0.5	39.8	10.2	7.7	1	15	0.5	3	31.1	3	BR07033115
129557	117	6.9	3.8	1.9	9.3	1.4	72	0.6	54.2	14.6	10	1.3	16	0.6	4.2	40	3.7	BR07033115
129558	44.1	30.8	27.9	1.9	11.9	8.5	20.4	4.8	16.7	4.4	4.6	3.5	5	4.6	5.7	277	29.6	BR07033115
129559	96.5	7	4	1.8	8.1	1.5	45.7	0.6	43.9	10.8	9.1	1.2	14	0.6	3	39.1	3.8	BR07033115
129560	17.8	10.5	7	1.6	6.9	2.4	10	1	13.8	2.9	4.9	1.5	15	1.1	4.6	63	7.1	BR07033115
129561	104	9.3	5.8	2.5	9.9	2	56.9	1	47.6	12.3	9.7	1.6	17	0.9	15.9	55.7	5.8	BR07033115
129562	217	9.3	5.9	2.6	10.4	2	68.5	0.9	66.1	17.4	12.3	1.6	25	0.9	7.8	53.4	5.9	BR07033115
129563	58.9	5.9	3.2	1.7	6.7	1.1	65.8	0.5	46.8	13.7	9	1	28	0.5	6.4	27.7	3.2	BR07033115
129564	141.5	2.3	1.1	1.2	5.2	0.4	78.2	0.2	50.3	14.6	7.5	0.6	38	0.2	3.4	8.5	1.3	BR07033115
129565	103	7.7	4.4	1.9	8	1.6	46.7	0.6	41.9	10.8	8.5	1.3	29	0.7	8.8	38	4.3	BR07033115
129566	13.9	3.1	2	0.7	3.5	0.7	23.7	0.4	13.1	3.9	2.7	0.5	30	0.3	4.5	18.2	2.3	BR07033115
129567	37.2	6.5	3.7	2.2	7	1.4	22.3	0.6	26	6	7.2	1.2	20	0.6	5	37.2	3.6	BR07033115
129568	77.6	7.2	4.5	1.7	8.3	1.6	40.8	0.7	40.8	9.8	8.6	1.3	20	0.6	4.5	44.2	4.2	BR07033115
129569	622	12.7	6	4.4	29.5	2.2	308	0.8	252	68.3	44.1	3.2	22	0.8	21.2	55	5.4	BR07033115

Spl_ID	Ce_ppm	Dy_ppm	Er_ppm	Eu_ppm	Gd_ppm	Ho_ppm	La_ppm	Lu_ppm	Nd_ppm	Pr_ppm	Sm_ppm	Tb_ppm	Th_ppm	Tm_ppm	U_ppm	Y_ppm	Yb_ppm	Lab Batch
129570	187	4.7	2.8	1.8	8.8	0.9	94.5	0.5	69.4	19.3	10.9	1.1	18	0.4	5	27.3	2.9	BR07033115
129571	158	6.5	3.8	2.2	9.6	1.3	82.1	0.6	63.8	17	10.9	1.3	24	0.5	4.8	35.5	3.6	BR07033115
129572	156	7.2	4	2	9.6	1.5	70.3	0.6	58.2	15.2	10.5	1.3	22	0.6	5.5	38.8	4	BR07033115
129573	147	7.8	4.6	1.9	9.9	1.6	68	0.7	57.6	14.9	10.7	1.5	19	0.7	4.7	45.6	4.5	BR07033115
129574	6.6	1.1	0.7	0.3	0.8	0.2	3.8	0.2	3.3	0.7	0.8	0.2	16	0.1	2.7	6.3	1	BR07033115
129575	66.8	6.5	3.3	2	6.8	1.3	33.3	0.4	29.6	7.5	6.5	1.1	16	0.5	3.7	32.8	2.9	BR07033115
129576	116	6.8	4	1.7	8.6	1.4	69.8	0.6	50.5	13.8	8.8	1.2	25	0.6	5.6	42.2	3.9	BR07033115
129577	123	5.8	3.6	1.4	7.6	1.2	64.3	0.6	47.6	13.1	8.5	1.1	26	0.6	6.2	34.8	3.8	BR07033115
129578	126	5.8	3.4	1.6	7.5	1.2	65.7	0.5	48.2	13.1	8.2	1.1	25	0.5	6.2	33.8	3.5	BR07033115
129579	119.5	5.7	3.4	1.6	7.5	1.2	62.4	0.5	45.9	12.5	8.1	1	24	0.5	5.9	32.5	3.3	BR07033115
129580	99.8	5.5	3.5	1.8	7.3	1.2	56	0.5	40.5	11	7.3	1	18	0.5	4.2	32.7	3.4	BR07033115
129581	121	4.6	2.8	2.3	7.2	0.9	58	0.5	45.6	12	8.8	0.9	23	0.4	5.4	24.4	3	BR07033115
129582	31.9	3.5	1.9	1.6	3.5	0.7	13.4	0.3	14.5	3.4	3.4	0.6	21	0.3	8.5	16.7	1.9	BR07033115
129583	124	5.5	3.3	1.5	7.3	1.1	61.4	0.5	46.5	12.8	8.1	1	25	0.5	6.3	32.4	3.4	BR07033115
129584	3.9	1	0.7	0.1	0.6	0.2	1.9	0.1	1.9	0.4	0.4	0.1	2	0.1	<0.5	5.8	0.5	BR07033115
129585	52.5	5.5	3.5	1.5	5.4	1.2	26.8	0.5	23	5.7	4.8	0.9	23	0.5	13.7	34.3	3.2	BR07033115
129586	87.6	5.4	3.2	1.5	6.1	1.1	39.6	0.5	33.4	8.8	6.3	1	25	0.5	5.8	27.3	3.4	BR07033115
129587	31.8	4.4	2.4	1.1	3.7	0.9	13.6	0.4	13.4	3.3	3.2	0.7	21	0.4	5.5	19.7	2.4	BR07033115
129588	130	5.8	3.5	1.3	7.5	1.2	62.4	0.6	48.2	13.1	8.4	1.1	26	0.5	4.8	34	3.6	BR07033115
129589	130.5	8	4.4	1.6	9.8	1.6	88.6	0.6	55.9	15	10.4	1.5	28	0.7	5.6	43.8	4.2	BR07033115
129590	111.5	5.6	3.4	1.5	7.2	1.2	58.7	0.5	44.3	11.9	7.9	1.1	24	0.5	6.5	35.3	3.6	BR07033115
129591	108.5	3.9	2.4	1.1	5.1	0.8	53.9	0.4	35.8	9.8	5.7	0.7	23	0.4	4.9	22.3	2.4	BR07033115
129592	114	5.5	3.1	1.6	7.3	1.1	60.7	0.5	44.5	12	7.8	1	25	0.5	6.4	33.7	3.3	BR07033115
129593	120.5	5.6	3.4	1.5	7.3	1.2	61.5	0.5	45.7	12.2	7.8	1.1	25	0.5	6.4	35.2	3.5	BR07033115
129594	105	4.5	2.8	1.1	5.7	0.9	46.6	0.5	37.3	9.9	6.2	0.8	26	0.5	4.8	26	3.3	BR07033115
129595	141	5.5	3.1	1.7	7.9	1.1	71.9	0.5	52.3	14.4	8.7	1.1	25	0.5	6.2	32	3.2	BR07033115
129596	146	6.6	3.8	1.7	9.2	1.3	71.9	0.6	56.7	15	10.2	1.3	28	0.6	5.7	37.7	4	BR07033115
129597	129.5	7.2	4.1	1.7	9	1.5	60.8	0.6	49.5	13	9.6	1.3	26	0.6	6.2	42.2	3.9	BR07033115
129598	140.5	6.1	3.5	2	7.5	1.2	61.5	0.5	47.6	12.8	8.3	1.1	19	0.5	2.5	37	3.5	BR07033115
129599	117	5.1	3.2	1.4	6.3	1	55.1	0.5	40.7	11.1	7	0.9	27	0.5	4.7	30.6	3.4	BR07033115
129600	105.5	5.7	3.4	1.5	7	1.2	49.2	0.5	41.7	10.5	7.7	1.1	27	0.5	5.3	34.3	3.6	BR07033115

Spl_ID	Al2O3 (%)	BaO (%)	CaO (%)	Cr2O3 (%)	Fe2O3 (%)	K2O (%)	MgO (%)	MnO (%)	Na2O (%)	P2O5 (%)	SiO2 (%)	SrO (%)	TiO2 (%)	Loi %	Lab Batch
129301	13.3	0.11	0.98	<0.001		3.79	4.79	1.9	0.065	2.43	0.074	69.4	0.009	0.39	1.78 BR07033115
129302	14.1	0.12	1.76		0.002	4.71	4.09	2.58	0.056	2.49	0.093	66.3	0.014	0.53	2.42 BR07033115
129303	13.65	0.128	2.16		0.001	5.09	4.33	3.28	0.068	2.13	0.117	65.7	0.016	0.54	2 BR07033115
129304	12.9	0.118	2.09	<0.001		3.78	3.86	1.94	0.063	2.86	0.081	69.3	0.017	0.41	1.58 BR07033115
129305	14.2	0.138	3.11	<0.001		5.73	3.84	3.13	0.082	2.44	0.16	65.4	0.024	0.66	1.91 BR07033115
129306	12	0.083	2.9	<0.001		3	5.45	1.6	0.152	1.655	0.068	65.6	0.001	0.31	4.28 BR07033115
129307	12.85	0.092	0.13	<0.001		3.37	6	0.76	0.229	0.922	0.083	70.6	<0.001	0.33	2.16 BR07033115
129401	12.95	0.09	<0.01	<0.001		5.94	5.29	0.63	0.95	0.139	0.041	67.9	<0.001	0.35	3.18 BR07033115
129402	9.23	0.105	<0.01	<0.001		9.21	3.29	0.86	1.075	0.234	0.048	69.2	<0.001	0.17	2.95 BR07033115
129403	11.05	0.101	<0.01	<0.001		4.81	3.63	1.46	0.048	0.592	0.032	72.5	<0.001	0.18	1.55 BR07033115
129404	14.8	0.087	<0.01	<0.001		2.2	6.32	0.88	0.012	0.213	<0.001	69.4	<0.001	0.39	2.33 BR07033115
129405	13.3	0.122	<0.01	<0.001		4.98	6.07	0.82	0.081	0.136	0.075	70.5	<0.001	0.32	1.88 BR07033115
129406	12.9	0.051	<0.01	<0.001		2.2	4.77	1.32	0.08	0.132	<0.001	72	<0.001	0.26	2.27 BR07033115
129407	17.5	0.595	0.13		0.005	1.27	13.9	0.11	0.046	0.311	<0.001	61.9	0.001	0.48	1.37 BR07033115
129408	14.1	0.176	<0.01	<0.001		3.36	6.74	1.1	0.051	0.077	0.006	69.9	<0.001	0.1	2.03 BR07033115
129409	12.45	0.138	0.13	<0.001		4.2	6.71	1.62	0.033	0.743	0.048	66.8	<0.001	0.25	1.76 BR07033115
129410	13.35	0.132	2.56	<0.001		4.9	4.09	2.96	0.073	2.06	0.116	65.1	0.018	0.52	1.6 BR07033115
129411	13.15	0.141	1.6	<0.001		4.92	4.79	2.87	0.074	1.84	0.111	65.1	0.009	0.47	1.95 BR07033115
129412	12.9	0.116	1.64	<0.001		5.39	4.23	3.43	0.089	1.725	0.116	64	0.003	0.52	3.21 BR07033115
129413	13.05	0.098	0.07	<0.001		6.3	4.42	2.77	0.04	0.676	0.085	66.6	<0.001	0.46	2.99 BR07033115
129414	13.4	0.132	1.06	<0.001		3.99	4.69	2.22	0.068	2.35	0.078	68.5	0.009	0.39	1.61 BR07033115
129415	13.1	0.134	1.92	<0.001		3.84	4.67	2.08	0.053	2.28	0.073	67.9	0.015	0.42	1.34 BR07033115
129416	12.35	0.081	<0.01		0.006	7.51	3.63	1.1	1.31	0.356	0.045	67	<0.001	0.26	3.53 BR07033115
129417	11.75	0.074	<0.01	<0.001		4.3	4.64	0.52	0.025	0.136	0.005	72.9	<0.001	0.16	2.75 BR07033115
129418	11.65	0.109	<0.01	<0.001		1.94	5.65	0.61	0.019	0.17	0.007	77.4	<0.001	0.06	2.08 BR07033115
129419	12.2	0.038	<0.01	<0.001		10.35	4.18	0.61	0.038	0.04	0.014	65.1	<0.001	0.02	6.05 BR07033115
129420	12.75	0.146	<0.01	<0.001		1.66	7.53	0.31	0.028	0.15	<0.001	72.9	<0.001	0.02	1.23 BR07033115
129421	12.65	0.057	<0.01	<0.001		3.97	4.84	0.56	<0.001	0.104	<0.001	73.7	<0.001	<0.01	2.17 BR07033115
129422	9.56	0.124	<0.01	<0.001		11.45	5.56	0.26	0.005	0.132	0.002	67.9	<0.001	0.01	2.27 BR07033115
129423	12.6	0.07	<0.01	<0.001		3.35	5.49	0.34	0.021	0.197	0.001	74.9	<0.001	<0.01	1.77 BR07033115
129424	12.5	0.053	<0.01	<0.001		3.88	5.03	0.49	0.047	0.152	<0.001	73.8	<0.001	0.03	1.89 BR07033115
129425	17.3	0.099		0.01		6.28	6.77	1.8	0.071	0.16	0.048	61.4	<0.001	0.41	3.01 BR07033115
129426	11.9	0.079	<0.01	<0.001		4.64	4.42	0.36	0.297	0.031	0.012	73.3	<0.001	0.18	2.38 BR07033115
129427	13.55	0.083	<0.01	<0.001		4.9	5.27	0.38	0.039	0.163	0.012	71.9	<0.001	0.23	2.25 BR07033115
129428	13.3	0.055	<0.01	<0.001		4.89	4.49	0.36	0.081	0.095	0.002	73.3	<0.001	0.19	2.28 BR07033115
129429	13.65	0.049		0.02		2.43	6.97	0.2	0.035	0.394	0.09	72.8	<0.001	<0.01	1.19 BR07033115
129430	13.5	0.18	<0.01	<0.001		2.68	7.68	0.5	0.029	0.174	0.02	71.7	<0.001	0.24	1.53 BR07033115

Spl_ID	Al2O3 (%)	BaO (%)	CaO (%)	Cr2O3 (%)	Fe2O3 (%)	K2O (%)	MgO (%)	MnO (%)	Na2O (%)	P2O5 (%)	SiO2 (%)	SrO (%)	TiO2 (%)	Loi %	Lab Batch
129431	11.75	0.052	<0.01	<0.001		5.46	4.09	1.11	0.021	0.03	0.023	73	<0.001	0.24	2.56 BR07033115
129432	12.75	0.088	0.01	<0.001		2.74	5.26	0.85	0.021	0.077	0.011	73.7	<0.001	0.28	2.38 BR07033115
129433	11.1	0.184	0.69	<0.001		1.43	7.42	0.23	0.044	0.126	0.01	74.8	<0.001	0.15	1.87 BR07033115
129434	13.4	0.246	0.5	<0.001		5.16	5.63	1.92	0.073	0.844	0.064	68.7	<0.001	0.74	2.29 BR07033115
129435	11.9	0.236	0.02	<0.001		3.23	6.48	1.12	0.053	0.04	0.065	71.8	<0.001	0.31	2.02 BR07033115
129436	13.7	0.127	0.75	<0.001		4.38	4.88	2.02	0.062	1.81	0.074	69.5	0.008	0.42	2.14 BR07033115
129437	13.65	0.113	0.04	<0.001		4.16	5.3	2.24	0.059	0.778	0.061	67.7	<0.001	0.37	2.7 BR07033115
129438	13.45	0.111	0.5	<0.001		4.22	4.63	1.7	0.048	1.94	0.073	68.1	0.002	0.39	1.98 BR07033115
129439	12.6	0.093	<0.01	<0.001		5.91	4.56	2.56	0.052	<0.001	0.035	70.3	<0.001	0.42	2.87 BR07033115
129440	13.45	0.144	1	<0.001		3.78	4.91	2.12	0.052	1.87	0.081	68.3	0.011	0.41	2.04 BR07033115
129441	12.65	0.049	<0.01	<0.001		6.8	3.87	2.5	0.04	<0.001	0.071	68	<0.001	0.41	3.05 BR07033115
129442	12.55	0.096	<0.01	<0.001		7.41	4.64	2.79	0.038	<0.001	0.058	67.1	<0.001	0.34	3.16 BR07033115
129443	12.3	0.093	<0.01	<0.001		6.38	3.26	1.3	0.039	<0.001	0.021	72.1	<0.001	0.36	2.88 BR07033115
129444	14.3	0.146	3.44	<0.001		6.18	3.79	3.41	0.08	1.61	0.138	63.4	0.021	0.71	2.27 BR07033115
129445	13.65	0.088	<0.01	0.002		7.69	4.75	3.52	0.073	0.112	0.147	64.5	<0.001	0.64	3.54 BR07033115
129446	14.05	0.103	0.15	<0.001		9.86	3.39	2.91	0.054	0.018	0.148	63.5	<0.001	0.64	3.65 BR07033115
129447	13.65	0.109	2.26	<0.001		5.2	3.93	3.42	0.038	1.995	0.118	62.6	0.011	0.52	2.46 BR07033115
129448	13.35	0.109	2.86	<0.001		4.58	3.86	2.78	0.043	1.96	0.132	64.7	0.016	0.52	1.26 BR07033115
129449	15.65	0.086	<0.01	<0.001		5.25	3.99	1.43	0.068	0.814	0.015	68.5	<0.001	0.59	2.93 BR07033115
129450	15.7	0.249	<0.01		0.024	6.86	8.52	2.71	1.065	0.087	0.067	59.7	<0.001	0.68	3.51 BR07033115
129451	14.65	0.12	0.19	0.016		3.06	7.36	0.78	0.031	0.126	0.069	70.9	<0.001	0.67	1.87 BR07033115
129452	16.8	0.098	0.03	<0.001		2.49	8.07	0.97	0.008	0.205	0.075	65.4	<0.001	0.57	1.97 BR07033115
129453	11.4	0.095	0.12	<0.001		2.61	5.29	0.74	0.028	0.038	0.085	74.4	<0.001	0.51	1.88 BR07033115
129454	13.35	0.073	0.08	<0.001		3.33	6.38	1.2	0.022	0.047	0.079	71	<0.001	0.59	2.45 BR07033115
129455	14.5	0.044	0.04	<0.001		3.05	6.08	1.1	0.01	0.086	0.023	68.3	<0.001	0.56	2.55 BR07033115
129456	12.25	0.075	0.07	<0.001		4.32	4.37	1.52	0.05	0.157	0.026	72	<0.001	0.56	2.19 BR07033115
129457	17.95	1.295	0.09	0.016		2.67	13.35	0.35	0.041	0.389	<0.001	59.7	0.01	0.8	2.01 BR07033115
129458	13.9	0.148	2.77	0.015		6.26	4	3.67	0.074	1.83	0.138	64.2	0.021	0.69	2.42 BR07033115
129459	11	0.11	0.55	<0.001		18.4	3.29	2.54	0.048	0.63	0.114	57.8	0.009	0.62	2.45 BR07033115
129460	0.95	0.068	<0.01	0.223		51.8	0.294	0.13	15.2	<0.001		18.75	0.009	0.05	10.75 BR07033115
129461	3.13	0.056	16.45	<0.001		13.25	0.215	9.19	0.616	<0.001	0.017	31.4	<0.001	0.02	19.5 BR07033115
129462	12.65	0.155	0.32	0.003		4.7	4.68	2.12	0.348	0.128	0.029	71.1	<0.001	0.34	3.27 BR07033115
129463	5.38	0.023	7.76	0.051		15.2	0.59	6.54	4.46	<0.001	0.015	41.3	<0.001	0.11	11.6 BR07033115
129464	3.51	0.035	0.04	0.009		2.94	1.37	0.22	0.047	<0.001		90.7	<0.001	0.13	0.8 BR07033115
129465	13	0.026	0.38	0.002		8.75	0.332	4.23	0.081	1.04	0.124	66.4	0.006	0.46	2.11 BR07033115
129466	14.05	0.146	0.81	0.004		5.43	4.34	3.34	0.066	2.01	0.116	67.2	0.012	0.6	2.48 BR07033115
129467	9.63	0.092	2.9	<0.001		9.07	3.88	1.86	0.65	0.259	0.086	63.2	<0.001	0.39	3.29 BR07033115
129468	19.9	0.105	0.31	<0.001		7.4	4.82	1.74	0.07	0.509	0.053	59.5	<0.001	0.71	4.23 BR07033115
129469	13.55	0.121	2.4	0.002		3.99	4.33	2.1	0.069	2.39	0.083	68.8	0.021	0.41	1.69 BR07033115
129470	11.35	0.347	<0.01	<0.001		11.95	7.01	0.83	0.044	0.178	0.022	60.1	<0.001	0.49	5.67 BR07033115

Spl_ID	Al2O3 (%)	BaO (%)	CaO (%)	Cr2O3 (%)	Fe2O3 (%)	K2O (%)	MgO (%)	MnO (%)	Na2O (%)	P2O5 (%)	SiO2 (%)	SrO (%)	TiO2 (%)	Loi %	Lab Batch
129471	1.65	0.06	3.27		0.238	24.5	0.028	1.28	14	<0.001	<0.001	29.1	0.01	0.06	15.4 BR07033115
129472	12.65	0.114	4.31		0.034	8.44	2.84	3.58	1.69	1.57	0.126	60.2	0.021	0.6	1.94 BR07033115
129473	13.75	0.162	0.01	<0.001		3.6	7.33	1.25	0.037	0.336	0.148	66.9	<0.001	0.64	1.56 BR07033115
129474	13.65	0.224	<0.01		0.013	5.87	7.94	1.69	0.118	0.285	0.149	66.1	0.002	0.74	1.86 BR07033115
129475	12.1	0.16	1.62		0.003	3.78	6.84	1.54	0.042	0.102	0.13	67.4	<0.001	0.55	2.43 BR07033115
129476	13.95	0.132	4.28		0.01	6.03	3.73	3.74	0.069	1.82	0.154	63.2	0.022	0.66	1.71 BR07033115
129477	13.5	0.161	2.93	<0.001		7.29	4.1	3.69	0.056	1.385	0.158	63.1	0.015	0.63	2.34 BR07033115
129478	16.55	0.162	0.39		0.012	5.09	6.89	1.12	0.832	0.433	0.026	62.8	0.005	0.61	3.68 BR07033115
129479	13.8	0.155	2.67		0.007	6.21	4.21	3.72	0.074	1.635	0.157	64.2	0.016	0.62	2.04 BR07033115
129501	13.2	0.202	0.03	<0.001		3.07	6.47	1.38	0.03	0.294	0.044	72.2	<0.001	0.31	2.21 BR07033115
129502	13.15	0.23	0.05	<0.001		3.52	7.85	1.22	0.079	0.128	0.039	71.3	0.003	0.36	1.6 BR07033115
129503	12.3	0.126	0.12	<0.001		2.81	5.65	0.56	0.002	0.069	0.009	75.6	<0.001	0.16	2.24 BR07033115
129504	12.2	0.248	0.19	<0.001		3.47	7.64	0.4	<0.001	0.215	0.008	71.6	<0.001	0.12	2.69 BR07033115
129505	12.3	0.191	0.17	<0.001		2.58	6.05	0.86	0.021	1.045	0.031	74	0.003	0.28	1.92 BR07033115
129506	11.95	0.252	0.05	<0.001		1.98	8.72	0.31	0.051	0.283	0.03	74.4	0.002	0.21	1.21 BR07033115
129507	12.4	0.146	<0.01	<0.001		2.57	5.54	0.48	0.015	0.765	0.022	73.5	<0.001	0.25	2.11 BR07033115
129508	12.2	0.218	<0.01	<0.001		2.85	7.03	0.44	0.008	0.327	0.027	71.4	<0.001	0.19	2.07 BR07033115
129509	13.25	0.124	1.9	<0.001		4.04	4.78	1.86	0.037	1.96	0.077	69.5	0.016	0.36	1.75 BR07033115
129510	12.75	0.134	1.72	<0.001		3.5	4.6	1	0.031	2.14	0.053	71.9	0.011	0.27	1.47 BR07033115
129511	12.45	0.166	0.28	<0.001		4.84	8.67	0.92	0.04	0.275	0.055	70.1	<0.001	0.26	1.49 BR07033115
129512	12.75	0.132	0.47	<0.001		3.85	5.37	1.04	0.017	1.555	0.052	72	0.001	0.31	2.12 BR07033115
129513	12.65	0.13	0.26	<0.001		3.82	5.65	1	0.012	1.215	0.049	72.2	<0.001	0.26	2.33 BR07033115
129514	12.8	0.133	<0.01	<0.001		5.77	6.09	1.25	0.024	0.133	0.057	70.1	<0.001	0.27	2.48 BR07033115
129515	12.2	0.151	0.05	<0.001		5.94	7.66	1.08	0.04	0.233	0.061	69.8	0.001	0.29	1.93 BR07033115
129516	12.1	0.125	0.09	<0.001		4.43	5.54	1.57	0.135	0.148	0.005	73.1	<0.001	0.11	2.06 BR07033115
129517	12.05	0.145	0.2	<0.001		3.46	5.07	1.81	0.056	0.907	0.055	73.1	<0.001	0.36	2.29 BR07033115
129518	12.4	0.081	<0.01	<0.001		2.67	5	0.75	0.023	0.217	0.023	75.2	<0.001	0.29	2.55 BR07033115
129519	10.65	0.073	0.06	<0.001		2.91	4.55	0.6	0.018	0.113	0.014	78.1	<0.001	0.36	2.02 BR07033115
129520	12.9	0.087	0.25	<0.001		2.75	5.16	0.64	0.027	0.114	0.012	75	<0.001	0.24	2.48 BR07033115
129521	12.9	0.14	0.67	<0.001		4.66	5.26	1.16	0.045	1.38	0.058	70.8	0.005	0.31	2.18 BR07033115
129522	12.95	0.149	0.83	<0.001		3.5	5.21	0.73	0.05	1.785	0.053	72	0.011	0.28	1.94 BR07033115
129523	12.25	0.116	0.11		0.005	7.03	4.64	1.22	0.045	0.437	0.043	70.4	<0.001	0.26	2.98 BR07033115
129524	12.95	0.112	0.36	<0.001		4.49	4.73	0.97	0.031	1.465	0.044	71.6	0.001	0.25	2.55 BR07033115
129525	13.2	0.154	0.26	<0.001		4.38	5.87	0.78	0.018	0.921	0.053	71.7	<0.001	0.29	1.99 BR07033115
129526	12.5	0.109	0.13	<0.001		7.21	4.68	1.6	0.05	0.108	0.048	70.3	<0.001	0.24	2.68 BR07033115
129527	12.7	0.19	0.24	<0.001		3.75	6.19	0.89	0.036	1.085	0.05	72.7	0.002	0.23	1.59 BR07033115
129528	12.9	0.14	0.27	<0.001		4.07	6.61	1.16	0.034	0.148	0.056	72	<0.001	0.26	2.12 BR07033115
129529	13.05	0.161	0.89	<0.001		3.67	5.44	0.94	0.058	1.555	0.051	71.9	0.011	0.27	1.43 BR07033115
129530	12.7	0.132	0.34	<0.001		3.72	5.54	0.79	0.018	1.135	0.049	73.4	<0.001	0.27	1.55 BR07033115

Spl_ID	Al2O3 (%)	BaO (%)	CaO (%)	Cr2O3 (%)	Fe2O3 (%)	K2O (%)	MgO (%)	MnO (%)	Na2O (%)	P2O5 (%)	SiO2 (%)	SrO (%)	TiO2 (%)	Loi %	Lab Batch
129531	12.95	0.122	<0.01	<0.001	4.98	5.97	1.06	0.023	0.196	0.053	71.5	<0.001	0.27	2.15	BR07033115
129532	12.5	0.118	1.98	<0.001	4.53	4.8	0.76	0.178	1.9	0.051	71.6	0.009	0.26	0.97	BR07033115
129533	12.7	0.079	0.81	<0.001	2.44	5.47	0.81	0.051	0.208	0.032	74.4	<0.001	0.23	2.45	BR07033115
129534	14.65	0.125	0.71	<0.001	3.49	7.22	1.24	0.032	0.339	0.042	69	<0.001	0.21	2.58	BR07033115
129535	15	0.08	0.15	<0.001	3.49	6.51	1.09	0.005	0.126	0.021	70.4	<0.001	0.29	2.43	BR07033115
129536	12.8	0.1	2.47	<0.001	3.64	4.37	1.12	0.094	2.41	0.054	70.8	0.013	0.28	1.49	BR07033115
129537	12.7	0.13	1.58	<0.001	3.73	4.35	1.32	0.077	2.44	0.065	71.4	0.018	0.34	1.17	BR07033115
129538	9.16	0.1	0.15	0.079	5.46	2.58	0.74	0.311	<0.001	0.022	55.6	0.042	0.27	3.18	BR07033115
129539	11.2	0.052	0.96	<0.001	6.05	3.65	1.12	0.294	0.124	0.002	71.9	<0.001	0.13	3.37	BR07033115
129540	13.5	0.07	<0.01	<0.001	3.83	4.81	0.71	0.015	0.161	0.013	73.2	<0.001	0.17	2.51	BR07033115
129541	19.85	0.118	0.41	<0.001	2.02	8.48	0.88	0.038	0.66	0.084	64.1	<0.001	0.6	2.38	BR07033115
129542	14.1	0.093	<0.01	<0.001	4.59	5.28	0.53	0.274	0.214	<0.001	72	<0.001	<0.01	2.36	BR07033115
129543	9.73	0.083	0.2	<0.001	5.32	3.97	0.42	0.319	0.198	0.046	73.8	<0.001	0.17	2.57	BR07033115
129544	12.9	0.132	0.84	<0.001	3.3	5.97	0.71	0.087	0.461	0.036	72	<0.001	0.19	2.24	BR07033115
129545	12.65	0.139	1.9	<0.001	3.41	4.73	0.77	0.098	2.6	0.051	71.5	0.011	0.28	1.63	BR07033115
129546	13.1	0.111	1.76	<0.001	2.91	4.53	0.82	0.078	2.46	0.051	72.7	0.007	0.22	0.99	BR07033115
129547	12.85	0.13	2.26	<0.001	3.36	4.58	0.75	0.071	2.5	0.053	71.5	0.017	0.3	1.4	BR07033115
129548	14.05	0.209	3.75	0.014	4.1	4.22	1.79	0.225	1.66	0.122	64.6	0.015	0.49	4.23	BR07033115
129549	13.25	0.122	0.39	<0.001	1.2	4.33	0.14	0.049	2.74	0.001	74.8	0.018	0.04	2.2	BR07033115
129550	13.15	0.038	0.1	<0.001	3.45	4.27	0.89	0.041	0.136	<0.001	75.3	<0.001	<0.01	2.25	BR07033115
129551	12.65	0.092	0.43	<0.001	3.23	5.54	0.94	0.032	2.67	0.058	74.5	<0.001	0.27	1.29	BR07033115
129552	12.85	0.128	2.15	<0.001	3.07	4.19	1	0.055	3.03	0.053	71.8	0.017	0.26	1	BR07033115
129553	13.2	0.043	0.46	<0.001	2.71	5.72	0.4	0.029	1.925	0.067	73.7	<0.001	0.07	1.24	BR07033115
129554	13.35	0.115	1.71	<0.001	1.44	5.31	0.2	0.117	1.77	<0.001	72.9	<0.001	0.01	2.52	BR07033115
129555	14.8	0.114	5.47	<0.001	7.14	2.78	2.76	0.073	2.47	0.144	61.6	0.026	0.69	1.51	BR07033115
129556	14.45	0.114	5.33	<0.001	6.31	2.96	2.7	0.081	2.25	0.152	62.9	0.027	0.7	1.65	BR07033115
129557	14.65	0.126	4.3	<0.001	6.6	3.27	2.44	0.064	1.885	0.13	63.2	0.017	0.7	2.36	BR07033115
129558	1.06	0.033	0.1	<0.001	51.9	0.374	<0.01	<0.001	<0.001	0.02	45.7	<0.001	0.03	0.12	BR07033115
129559	14.95	0.136	6.04	<0.001	7.33	2.72	2.74	0.052	1.92	0.15	61.5	0.028	0.73	1.34	BR07033115
129560	12.85	0.269	0.28	<0.001	3	7.3	0.62	0.012	0.25	0.118	73	<0.001	0.48	1.42	BR07033115
129561	14.85	0.161	0.39	<0.001	10.25	7.12	0.64	<0.001	0.23	0.168	62.4	<0.001	0.69	2.66	BR07033115
129562	16.75	0.537	0.26	0.001	9.84	11.75	0.43	0.04	0.294	0.028	57.6	0.008	0.79	1.29	BR07033115
129563	13.7	0.052	0.07	<0.001	3.34	4.94	0.6	0.003	0.06	0.031	74.2	<0.001	0.2	2.36	BR07033115
129564	16.75	0.049	0.14	<0.001	2.78	5.17	0.18	0.004	0.094	0.019	71.7	<0.001	0.26	2.39	BR07033115
129565	14.8	0.074	0.06	<0.001	6.17	5.17	0.64	0.005	0.158	0.062	69.5	<0.001	0.45	2.45	BR07033115
129566	15.05	0.108	0.01	0.002	4.69	5.29	0.66	<0.001	0.082	<0.001	70.1	<0.001	0.42	3.09	BR07033115
129567	14.4	0.13	0.17	0.003	7.84	5.36	1.43	0.018	0.106	0.102	66.2	<0.001	0.66	3.13	BR07033115
129568	14.45	0.134	1.56	<0.001	7.84	4.8	3.1	0.032	0.796	0.136	63	0.004	0.65	3.18	BR07033115
129569	11.75	0.282	0.17	<0.001	9.99	4	2.08	0.005	0.1	0.099	68	<0.001	0.47	2.82	BR07033115
129570	15.3	0.096	0.26	<0.001	7.14	4.15	3.25	0.026	0.058	0.156	64.1	<0.001	0.74	4.42	BR07033115

Spl_ID	Al2O3 (%)	BaO (%)	CaO (%)	Cr2O3 (%)	Fe2O3 (%)	K2O (%)	MgO (%)	MnO (%)	Na2O (%)	P2O5 (%)	SiO2 (%)	SrO (%)	TiO2 (%)	Loi %	Lab Batch
129571	14.55	0.121	0.19	<0.001	8.45	4.7	2.57	0.03	0.083	0.126	64.4	<0.001	0.57	3.87	BR07033115
129572	14.1	0.157	2.57	0.002	5.61	4.21	3.19	0.029	1.81	0.133	64.4	0.018	0.6	2.85	BR07033115
129573	13.85	0.138	4.5	<0.001	6.43	3.66	3.48	0.023	2.09	0.158	62.7	0.017	0.65	1.76	BR07033115
129574	14.05	0.046	0.08	<0.001	3.68	4.95	0.57	0.007	0.32	<0.001	73.2	<0.001	0.39	2.35	BR07033115
129575	11.25	0.099	0.37	<0.001	5.09	3.12	2.15	0.064	1.63	0.062	73.1	<0.001	0.32	2.45	BR07033115
129576	13.05	0.144	0.45	<0.001	3.45	5.58	1.16	0.045	2.11	0.054	71.8	0.006	0.31	1.53	BR07033115
129577	12.95	0.15	0.65	<0.001	2.59	5.61	0.57	0.035	2.19	0.053	72.4	0.003	0.29	1.42	BR07033115
129578	12.85	0.134	1.06	<0.001	3.54	4.79	1	0.134	2.81	0.058	71.4	0.008	0.29	1.52	BR07033115
129579	13.05	0.122	2.27	<0.001	3.33	4.35	0.87	0.087	2.54	0.066	71.8	0.02	0.32	1.19	BR07033115
129580	12.1	0.126	0.94	0.001	6.69	4.08	2.13	0.144	1.42	0.08	68.8	<0.001	0.43	2.83	BR07033115
129581	12.85	0.136	0.05	<0.001	5.41	4.41	0.77	0.06	0.001	0.016	74.9	<0.001	0.23	1.12	BR07033115
129582	16.65	0.701	0.28	0.006	7.85	13.5	<0.01	0.038	0.309	0.163	56.2	0.002	0.81	3	BR07033115
129583	13	0.111	2.29	<0.001	3.34	4.31	0.97	0.038	2.56	0.061	71.9	0.018	0.35	1.02	BR07033115
129584	1.58	<0.001	0.14	<0.001	2.46	0.501	<0.01	0.012	0.032	<0.001	94.7	<0.001	0.02	0.5	BR07033115
129585	12.85	0.211	1.82	0.014	4.79	8.08	1.49	0.071	0.315	0.135	66.2	0.004	0.53	2.83	BR07033115
129586	13.05	0.15	0.28	<0.001	5.23	6.73	1.7	0.041	0.945	0.092	69.5	0.001	0.45	1.78	BR07033115
129587	10.95	0.174	0.05	<0.001	6.89	8.28	0.33	0.095	0.201	0.028	71.4	<0.001	0.32	1.15	BR07033115
129588	13.45	0.054	3.36	<0.001	3.24	1.45	1.94	0.02	3.36	0.086	71.4	0.023	0.42	1.17	BR07033115
129589	13.35	0.056	3.13	<0.001	3.07	1.595	1.81	0.02	3.38	0.084	71.5	0.018	0.42	1.56	BR07033115
129590	13.2	0.12	1.56	<0.001	3.73	4.52	1.06	0.104	2.46	0.068	71.4	0.016	0.4	1.2	BR07033115
129591	12.6	0.109	0.09	<0.001	3.14	5.56	0.75	0.261	0.102	0.044	74.8	<0.001	0.33	2.06	BR07033115
129592	13	0.12	1.99	<0.001	3.35	4.47	0.85	0.058	2.45	0.056	72.1	0.014	0.34	1.17	BR07033115
129593	13.2	0.114	2.17	<0.001	3.27	4.56	0.71	0.047	2.53	0.053	72.1	0.015	0.35	0.88	BR07033115
129594	13.2	0.135	0.15	<0.001	4.6	6.56	0.75	0.015	0.075	0.069	72	<0.001	0.35	1.98	BR07033115
129595	13	0.136	0.47	<0.001	3.37	6.08	0.95	0.043	1.17	0.067	72.5	0.004	0.35	1.65	BR07033115
129596	12.5	0.113	0.47	<0.001	3.06	3.53	0.59	0.045	3.03	0.062	75	<0.001	0.32	1.28	BR07033115
129597	15	0.059	1.46	<0.001	1.13	4.21	0.2	0.049	2.55	0.001	73.9	<0.001	0.1	1.28	BR07033115
129598	14.2	0.126	0.9	<0.001	1.82	4.17	0.27	0.031	3.32	0.023	73.6	0.011	0.18	1.35	BR07033115
129599	13	0.108	0.62	<0.001	2.57	4.79	0.94	0.021	3.1	0.033	72.9	0.007	0.28	1.61	BR07033115
129600	13.45	0.11	2.53	<0.001	3.86	4.56	2.02	0.034	2.53	0.093	69	0.013	0.46	1.26	BR07033115

Appendix 3 – Devon Mine Assays

Spl_ID	Location	Distance (m)	Au_ppm	Ag_ppm	Al_%	As_ppm	Ba_ppm	Be_ppm	Bj_ppm	Ca_%	Cd_ppm	Ce_ppm	Co_ppm	Cr_ppm	Cs_ppm	Cu_ppm	Fe_%	Ga_ppm	Ge_ppm	Hf_ppm	In_ppm	K_%	La_ppm	Li_ppm	Mg_%	Mn_ppm	Batch Number
129005	Upper open slope / surface / L-2	0-1	0.359	6.56	1.94	226	100	0.99	3.01	0.06	9	69.5	283	16	1.07	157	19.55	12.85	0.24	1	2.45	0.79	39.7	6	0.19	61700	BR07018018
129006	Upper open slope / surface / L-2	1-2	0.03	0.86	5.71	13.77	440	1.76	1.34	0.13	4.13	114.5	104.5	60	2.46	8.5	6.22	26.5	0.19	3.1	0.135	2.53	54.9	9.3	1.95	2760	BR07018018
129007	Upper open slope / surface / L-2	2-3	0.094	15.15	2.67	87.9	50	0.71	15.5	0.37	4.65	76.9	137.5	20	0.8	639	13.7	15.4	0.18	1.2	2.76	0.49	45.3	11.6	0.74	74100	BR07018018
129008	Upper open slope / surface / L-2	3-4	0.86	105	1.62	152	40	1.28	6	0.05	69.1	100.5	113	14	1.12	1230	15.2	8.64	0.2	1	17.2	0.45	54.9	8.9	0.19	66500	BR07018018
129009	Upper open slope / surface / L-2	4-5	0.169	13.55	1.03	58.7	30	0.64	4.21	0.34	60	76.4	66.9	9	0.4	585	21.4	8.95	0.24	0.6	4.09	0.08	41.9	7.4	0.64	>100000	BR07018018
129010	Upper open slope / surface / L-2	5-6	0.029	4.09	5.61	9	140	1.84	1.23	0.23	25.3	120	52.7	44	3.48	13.5	7.78	18.25	0.16	2.6	1.27	2.36	60.8	11.7	0.81	29500	BR07018018
129011	Upper open slope / surface / L-2	6-7	0.203	68.6	3.37	155	70	1.63	7.91	0.03	41.5	124	40	25	0.76	1180	17.55	12	0.12	1.5	2.9	0.48	66.2	17.4	0.88	25500	BR07018018
129012	Upper open slope / surface / L-2	7-8	2.39	598	3.21	119	80	1.95	6.71	0.03	10	62.2	19.7	26	1.86	2970	8.97	10	0.13	1.5	11.7	1.38	40	18.1	0.37	19500	BR07018018
129013	Upper open slope / surface / L-2	8-9	1.88	925	1.45	626	30	1.3	73.7	0.02	4.88	64.1	61.6	8	0.51	2480	10.6	5.6	0.13	0.5	22	0.12	42.3	18.3	0.3	19050	BR07018018
129014	Upper open slope / surface / L-2	9-10	17.05	1540	0.32	332	20	0.32	17.75	0.01	77	115.5	61.9	6	0.27	7080	2.74	1.74	<0.05	0.1	18.2	0.06	5.6	20.7	0.02	4910	BR07018018
129015	Upper open slope / surface / L-2	10-11	0.581	463	3.77	328	110	0.93	5.58	0.03	5.34	66.6	46.1	31	3.51	1080	5.41	14.5	0.09	2.3	3.54	1.2	39	16.2	0.39	15600	BR07018018
129016	Upper open slope / surface / L-2	11-12	0.07	23.6	6.02	394	230	2.09	0.38	0.08	2.48	57.3	17	55	4.38	173	2.96	19.55	0.08	3.5	0.824	3.5	31.7	10.4	0.32	2430	BR07018018
129017	Upper open slope / surface / L-2	12-13	0.521	176	2.89	2360	70	0.97	5.18	0.04	2.17	115.5	79.6	62	1.25	1070	7.5	8.73	0.11	1.2	3.92	0.66	60.4	16.7	0.46	6790	BR07018018
129018	Upper open slope / surface / L-2	13-14	0.402	97.2	6	46.9	160	2.62	1.56	0.08	11.15	107	8.5	51	3.81	492	5.76	18.75	0.12	2.9	2.07	2.97	53.1	12.2	0.47	10900	BR07018018
129019	Upper open slope / surface / L-2	14-15	2.18	243	2.71	1680	50	2.25	5.54	0.02	4.26	79.7	26.9	23	1.95	1210	7.7	9.93	0.12	1.5	5.36	0.48	48.3	26.8	0.42	13600	BR07018018
129020	Upper open slope / surface / L-2	15-16	18.55	579	0.49	6230	60	0.41	1.29	0.01	15.6	12.55	13.9	8	0.53	4350	3.88	2.25	<0.05	0.3	3.88	0.15	6.9	24.2	0.02	9300	BR07018018
129021	Upper open slope / surface / L-2	16-17	0.746	179	4.71	1950	200	2.1	1.33	0.04	0.53	141	29.8	34	4.03	335	2.64	15.05	0.09	2.3	2.32	2.07	72.5	16.5	0.28	9790	BR07018018
129022	Upper open slope / surface / L-2	17-18	1.04	1970	3.97	2190	190	0.56	0.54	0.03	3.64	51.2	17	32	3.31	2260	2.35	11.75	0.05	2.2	2.46	1.73	24.3	12.2	0.2	11750	BR07018018
129023	Upper open slope / surface / L-2	18-19	0.555	206	2.3	1130	60	1.12	8.56	0.02	5.95	66.3	25.7	21	0.97	1680	8.94	8.64	0.1	1.3	8.33	0.49	39.5	22.6	0.28	3580	BR07018018
129024	Upper open slope / surface / L-2	19-20	14.05	2730	0.84	764	40	0.67	51.1	0.01	247	20.1	9.4	8	0.78	9430	3.2	2.86	0.06	0.5	1.5	0.27	12.1	12.7	0.1	1550	BR07018018
129025	Upper open slope / surface / L-2	20-21	0.068	13.6	6.37	63.5	340	3.24	0.85	0.12	5.85	75.2	59.4	52	6.28	98.3	4.93	20.4	0.1	3.4	1.2	3.23	37.9	9.6	0.42	9510	BR07018018
129026	Upper open slope / surface / L-2	21-22	0.042	35.2	6.03	55.3	540	3.1	0.46	0.08	3.65	96.8	29.8	50	5.32	244	4.25	19.55	0.11	3.5	0.894	3.29	42.6	8.5	0.49	13450	BR07018018
129027	Upper open slope / surface / L-2	22-23	13.55	789	0.98	894	50	1.41	0.06	0.01	10.45	11	22.1	2	0.37	15400	8.03	2.42	0.1	0.2	60.5	0.07	15.3	18	0.02	7230	BR07018018
129028	Upper open slope / surface / L-2	23-24	8.95	1450	1.13	7950	30	0.72	61.3	0.01	33.8	30.2	18.8	11	1.35	8870	4.81	3.78	0.07	0.6	4.06	0.44	19.9	13.2	0.09	746	BR07018018
129029	Upper open slope / surface / L-2	24-25	0.538	123	4.13	6120	160	1.95	0.89	0.02	1.45	44.5	20.5	32	4.59	958	3.01	12.25	0.06	2.2	2.04	1.85	23.6	14.4	0.24	1180	BR07018018
129030	Upper open slope / surface / L-2	25-26	0.523	270	3.39	2340	120	1.49	1.41	0.02	2.9	41	27.4	37	2.81	435	3.41	10.1	0.07	2	1.545	1.43	22.6	18.4	0.24	340	BR07018018
129031	Upper open slope / surface / L-2	26-27	1.38	106	4.32	1463	170	2.84	0.32	0.07	3.72	57.3	33.9	44	4.58	2120	5.94	14	0.09	2.6	8.33	2.08	18.6	17.6	0.42	1010	BR07018018
129032	Upper open slope / surface / L-2	27-28	0.812	166	3.49	2420	140	2.04	5.83	0.04	12.3	39.3	45.2	31	3.71	920	6.79	11.35	0.1	1.9	3.64	1.44	20.9	18.4	0.31	8810	BR07018018
129033	Upper open slope / surface / L-2	28-29	4.02	263	3.2	713	100	1.65	2.01	0.05	70	25.4	7.9	23	2.42	515	2.76	12.05	0.07	1.6	2.26	1.61	12.6	29.2	0.23	3940	BR07018018
129034	Upper open slope / surface / L-2	29-30	6.17	2730	0.24	5970	20	0.22	1.83	0.01	28.9	4.54	7.2	4	0.37	3820	1.89	1.13	<0.05	0.2	1.265	0.08	2.9	9.8	0.02	1820	BR07018018
129035	Upper open slope / surface / L-2	30-31	0.09	23.7	6.5	65.5	1050	2.46	0.29	0.15	8.14	64.9	14	46	5.34	299	2.84	17.5	0.11	3.9	1.12	3.38	28	8.4	0.39	8800	BR07018018
129036	Upper open slope / surface (L-2) down slope to open small adit (L-1)	0-1	0.61	20.8	4.53	66.9	29	1.87	0.4	0.11	2.91	124	72.5	46	2.32	31	3.05	13.35	0.13	3	0.09	2.92	57.3	7.1	0.69	2120	BR07018018
129038	Upper open slope / surface (L-2) down slope to open small adit (L-1)	1-2	2.63	564	2.39	1570	60	1.04	2.22	0.02	33.5	68.4	126.5	25	1.51	2160	7.58	8.4	0.14	1.3	7.39	0.77	33.2	15.1	0.21	19900	BR07018018
129039	Upper open slope / surface (L-2) down slope to open small adit (L-1)	2-3	0.064	5.14	6.12	99.9	300	3.18	0.43	0.06	8.58	87.9	55.9	54	3.87	109.5	5.55	18.75	0.16	3.2	0.443	2.71	40.8	15	1.25	11050	BR07018018
129040	Upper open slope / surface (L-2) down slope to open small adit (L-1)	3-4	0.01	2.06	6.48	10.4	530	3.03	0.09	0.12	0.87	87.8	14.5	64	6.18	63.9	3.03	18.3	0.06	3.1	0.11	2.64	47	11.7	1.45	1510	BR07018018
129041	Main adit south / 8m above river / L1	0-1	0.072	7.14	7.26	141.5	1600	3.19	1.71	0.06	0.44	62.8	94.6	52	8.88	62	7.87	22.5	0.12	3.4	0.622	3.18	41.4	15.9	0.76	12100	BR07018018
129042	Main adit south / 8m above river / L1	1-2	0.097	20.8	7.74	247	730	1.26	4.3	0.05	0.77	99.2	70.7	58	3.13	87.1	5	11.1	0.15	9.8	0.221	7.2	46.1	2.9	0.2	604	BR07018018
129043	Main adit south / 8m above river / L1	2-3	0.008	9.63	6.87	10.9	790	4.61	2.9	0.08	2.42	32.3	8.2	69	11.75	150	4.7	17.85	0.1	3.4	0.094	2.82	23.6	21.5	0.93	12000	BR07018018
129044	Main adit south / 8m above river / L1	3-4	0.51	654	4.25	509	220	2.76	6.96	0.07	1.71	67.2	65.5	38	4.3	2350	7.31	11.8	0.1	1.9	2.85	1.55	36.5	22.3	0.33	22500	BR07018018
129045	Main adit south / 8m above river / L1	4-5	0.004	1.91	7.15	8	600	4.37	0.25	0.57	0.76	46.5	7	64	5.39	23.2	2.33	18.15	0.13	3.7	0.06	1.8	22.1	16.2	1.31	861	BR07018018
129046	Main adit south / 8m above river / L1	5-6	0.003	1.59	6.92	7.2	580	3.99	0.19	0.59	0.28	55.3	8	70	5	10.4	2.46	16.85	0.14	3.6	0.062	1.96	26.6	12.9	1.37	591	BR07018018
129047	Main adit south / 8m above river / L1	6-7	0.0																								

Spl_ID	Location	Distance (m)	Au ppm	Ag ppm	Al %	As ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Ce ppm	Co ppm	Cr ppm	Cs ppm	Cu ppm	Fe %	Ga ppm	Ge ppm	Hf ppm	In ppm	K %	La ppm	Li ppm	Mg %	Mn ppm	Batch Number	
129079	Drive north from 17m into Main adit (south, 8m above river) / L1-V1-N	0-1	0.01		1	6.51	92.9	530	4.08	0.62	0.37	6.56	68.4	45.8	49	3.45	8.6	8.79	21	0.16	3.5	0.081	2.67	33.2	21.1	3.49	12150	BR07018018
129080	Drive north from 17m into Main adit (south, 8m above river) / L1-V1-N	1-2	0.5	34.6	3.82	117.5	110	1.87	0.56	0.17	27.4	90.3	81.9	28	4.08	20.7	5.97	13.1	0.09	1.7	2.25	1.48	47.8	19.8	0.5	15850	BR07018018	
129081	Drive north from 17m into Main adit (south, 8m above river) / L1-V1-N	2-3	0.22	40.5	4.46	7760	100	2.79	1.39	0.19	30.1	81.6	80.7	33	5.66	25.3	8.98	15.15	0.15	2	4.09	1.55	44.5	30	0.73	21100	BR07018018	
129082	Drive north from 17m into Main adit (south, 8m above river) / L1-V1-N	3-4	0.39	29.1	3.29	8780	90	1.93	2.58	0.1	1.2	67.5	22.7	28	5.02	633	5.1	9.47	0.08	1.7	3	1.06	37.7	32.6	0.43	2310	BR07018018	
129083	Drive north from 17m into Main adit (south, 8m above river) / L1-V1-N	4-5	0.3	451	3.75	6610	80	1.84	1.86	0.07	5.25	72.5	55.2	31	4.32	1390	4.44	11.25	0.07	1.9	1.87	1.5	35.8	15.4	0.4	3560	BR07018018	
129084	Drive north from 17m into Main adit (south, 8m above river) / L1-V1-N	5-6	0.88	184	3.75	687	90	2.15	19.35	0.06	6.38	98.7	27.8	32	4.96	3650	5.2	10.2	0.12	2	1.92	1.23	50	28.5	0.56	6410	BR07018018	
129085	Drive south from 17m into Main adit (south, 8m above river) / L1-V1-S	0-1	0.09	7	4.63	305	350	2.59	0.86	0.13	2.42	184.5	23.2	41	7.73	119.5	9.33	21.3	0.24	2	2.94	2.13	92.7	15	0.4	28000	BR07018018	
129086	Drive south from 17m into Main adit (south, 8m above river) / L1-V1-S	1-2	2.13	298	0.8	8840	10	0.66	4.54	0.12	15	15.3	24.4	4	0.6	2220	6.3	2.84	0.07	0.2	5.33	0.06	8.1	28.1	0.19	7350	BR07018018	
129087	Drive south from 17m into Main adit (south, 8m above river) / L1-V1-S	2-3	2.45	103	0.86	>10000	30	0.66	1.48	0.08	35.2	57.7	33	7	1.11	1500	8.37	3.83	0.1	0.5	7.12	0.25	33.1	24.8	0.15	23500	BR07018018	
129088	Drive south from 17m into Main adit (south, 8m above river) / L1-V1-S	3-4	1.3	57.4	2.2	>10000	40	1.12	2.4	0.18	7.24	65.4	51.3	16	2.1	327	8.53	11.3	0.13	1.1	5.18	0.89	33.1	20.9	0.28	33000	BR07018018	
129089	Drive south from 17m into Main adit (south, 8m above river) / L1-V1-S	4-5	0.05	6	5.86	744	170	2.75	0.58	0.12	4.73	54.4	21	50	4.72	92.4	6.16	30.5	0.14	3.1	0.825	3.01	25.4	11.4	0.48	6430	BR07018018	
129090	Drive south from 17m into Main adit (south, 8m above river) / L1-V1-S	5-6	0.04	8.5	6.27	197.5	550	2.52	0.28	3.69	1.09	43.9	7.9	45	3.91	70.5	2.77	21.1	0.1	3.1	0.222	4.2	19.9	9.1	2.27	2350	BR07018018	
129091	Drive south from 17m into Main adit (south, 8m above river) / L1-V1-S	6-7	0.02	4	5.86	122	220	2.53	0.57	0.8	2.11	196	48.8	51	3.91	38.5	5.23	29.3	0.24	2.7	0.569	2.95	89.2	14.4	0.94	15400	BR07018018	
129092	Drive south from 17m into Main adit (south, 8m above river) / L1-V1-S	7-8	0.03	6.9	6.14	440	270	3.45	0.31	1.43	1.18	64.2	5.1	50	4.15	72.1	3.67	19.8	0.12	3.4	0.298	3.19	29.9	16.5	1.97	3490	BR07018018	
129093	Drive south from 17m into Main adit (south, 8m above river) / L1-V1-S	8-9	<0.01	1.6	5.38	19.2	710	1.74	0.29	2.41	0.97	61.1	21.3	39	2.83	39.3	3.25	18.25	0.11	2.9	0.181	3.86	23.9	12.4	1.82	4510	BR07018018	
129094	Drive south from 17m into Main adit (south, 8m above river) / L1-V1-S	9-10	0.02	0.7	6.57	13.3	430	3.14	0.21	0.3	3.17	52	19.2	61	5.22	25.9	4.09	24.7	0.11	3.7	0.127	3.61	23.6	16.8	1.28	3180	BR07018018	
129095	Drive south from 17m into Main adit (south, 8m above river) / L1-V1-S	10-11	0.04	0.9	6.75	12.7	640	2.75	0.17	1.38	0.16	33.7	8.4	53	4.53	9.9	2.34	28.1	0.09	3.6	0.069	4.54	14.3	6.2	1.28	1540	BR07018018	
129101	Main adit north/ 2m above river / L2	0-1	0.03	0.5	6.59	22.4	500	5.29	0.58	0.58	1.75	57.3	9	31	4.02	20.7	2.31	14.9	0.09	3.3	0.061	2.69	29.7	6.6	0.46	4360	BR07018018	
129102	Main adit north/ 2m above river / L2	1-2	0.01	1	6.77	34.9	210	4.51	0.35	0.19	0.48	37.1	11.1	21	8.07	9.7	2.78	17.05	0.09	3.3	0.512	3.35	21.6	8.5	0.34	8970	BR07018018	
129103	Main adit north/ 2m above river / L2	2-3	0.07	0.6	6.94	6.8	1150	4.29	0.17	0.3	3.06	80.1	8	35	3.31	5.7	2.35	14.3	0.09	3.1	0.045	3.99	38.7	8.3	0.66	1910	BR07018018	
129104	Main adit north/ 2m above river / L2	3-4	0.01	0.7	6.55	7.8	260	4.2	0.21	0.43	0.77	310	11.3	17	2.42	13.8	3.21	18.75	0.24	2.4	0.05	2.11	137	8.5	0.68	745	BR07018018	
129105	Main adit north/ 2m above river / L2	4-5	0.01	1.04	6.53	9.7	1530	3.26	0.49	0.11	1.32	43.9	25.9	26	3.41	8.1	3.41	13.55	0.12	3.1	0.06	4.73	18.1	8.7	0.77	1220	BR07018018	
129106	Main adit north/ 2m above river / L2	5-6	0.03	7	5.17	133.5	250	2.11	3.75	0.14	4.85	113	585	23	3.45	20.6	9.75	14.15	0.25	2.2	1.715	2.54	54.9	12.9	0.83	21900	BR07018018	
129107	Main adit north/ 2m above river / L2	6-7	0.08	7	5.59	462	260	2.44	4.73	0.23	9.51	145.5	549	16	3.15	122	11.9	15.85	0.26	1.6	4.64	2.81	70.1	22.5	1.19	25200	BR07018018	
129108	Main adit north/ 2m above river / L2	7-8	0.02	0.8	6.14	21.3	2460	2.58	0.29	0.17	2.97	66.4	28.2	31	5.06	23	4.17	13.45	0.15	2.8	0.285	5.05	30.6	9.3	0.57	6580	BR07018018	
129109	Main adit north/ 2m above river / L2	8-9	0.01	1.5	6.09	15.8	900	3.01	0.32	0.14	3.35	120	16.6	23	5.16	10.6	2.15	16.95	0.21	3.1	0.12	4.1	54.9	10.8	0.43	2750	BR07018018	
129110	Main adit north/ 2m above river / L2	9-10	0.01	1.3	5.7	42.2	1840	1.63	0.41	0.14	0.8	45	33	19	2.77	9.6	2.39	12	0.14	3.2	0.122	4.98	18.8	9	0.54	1030	BR07018018	
129111	Main adit north/ 2m above river / L2	10-11	<0.01	0.7	6.62	15.1	1910	1.73	0.79	0.05	0.34	78	4.5	20	3.09	5.4	2.06	14.8	0.15	3.6	0.04	5.83	35.9	7.1	0.65	429	BR07018018	
129112	Main adit north/ 2m above river / L2	11-12	0.14	20.7	3.72	233	140	1.25	6.14	0.05	4.29	41.5	1100	7	2.34	178.5	16.75	18.9	0.3	1.9	2.2	1.39	20.1	15.9	0.54	1920	BR07018018	

Spl. ID	Location	Distance (m)	Au ppm	Ag ppm	Al %	As ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Ce ppm	Co ppm	Cr ppm	Cs ppm	Cu ppm	Fe %	Ga ppm	Ge ppm	Hf ppm	In ppm	K %	La ppm	Li ppm	Mg %	Mn ppm	Batch Number	
129113	L2 drive		0.01		1	4.94	70.2	70	3.18	0.66	0.14	3.93	31.1	149.5	26	1.95	8.4	10.1	20.6	0.19	2.6	0.801	0.71	14.7	21.5	0.98	14500	BR07018018
129114	L2 drive		0.24	16.1	3.85	418	180	1.97	2.53	0.04	3.04	55.3	177	3	1.86	754	10.6	16.85	0.26	3.5	1.005	1.66	25.6	12.6	0.37	4960	BR07018018	
129115	L2 drive		32.8	469	0.27	>10000	20	0.31	11.95	0.01	331	15	35.1	3	0.28	11800	5.55	1.54	0.07	0.1	37.9	0.05	11	20.7	0.01	448	BR07018018	
129116	L2 drive		1.96	534	2.6	703	100	1.14	3.76	0.02	3.69	73.3	28.6	3	1.75	1860	2.55	10.05	0.09	3.2	3.22	1.09	38.5	10.7	0.18	507	BR07018018	
129117	L2 drive		2.37	519	2.36	2380	50	0.85	372	0.03	2.63	147.5	94.8	10	0.66	10900	7.01	8.92	0.21	1.8	10.9	0.23	95.6	19.8	0.44	2720	BR07018018	
129118	L2 drive		0.45	11	3.07	63.2	420	3.98	9.88	0.06	21.4	123.5	403	2	0.74	507	10.6	16.4	0.23	2.4	0.612	0.46	56.5	11.6	2.22	17600	BR07018018	
129119	L2 drive		5.06	119	3.55	131	80	1.04	17.85	0.02	19.75	80.2	256	1	0.85	1740	12.25	16.5	0.21	2.9	8.83	0.59	38.1	16.6	0.6	5630	BR07018018	
129120	L2 drive		5.8	267	2.03	5000	40	0.95	67.4	0.02	2.7	87.4	122	1	1.11	5430	5.28	7.15	0.15	1.9	5.97	0.52	47.4	11.6	0.17	677	BR07018018	
129121	L2 drive		0.83	41.3	6.82	607	70	3.07	3.09	0.04	14.85	294	176	4	7.97	905	4.95	35.6	0.29	3.8	5.41	1.82	138.5	6.7	0.57	466	BR07018018	
129122	L2 drive		4.48	419	0.45	>10000	30	0.57	88	0.02	41.4	27.1	50.9	<1	0.45	7880	14.95	3.66	0.18	0.3	11.5	0.08	14	17.3	0.05	61100	BR07018018	
129123	L2 drive		0.38	83.8	0.77	685	270	1.38	23	0.07	77.6	39.1	346	<1	1.23	2600	25.6	8.91	0.38	0.4	14.55	0.2	22.1	4.9	0.08	>100000	BR07018018	
129124	L2 drive		9.26	1360	0.33	4970	20	0.27	29.2	0.01	31.2	18.65	30.1	1	0.26	11100	4.6	3.02	0.08	0.3	11.8	0.05	9.1	18.3	0.11	4270	BR07018018	
129125	L2 drive		7.63	632	2.04	>10000	30	0.94	465	0.02	4.13	51.9	103	1	0.63	27500	14.35	7.63	0.18	1.6	14.9	0.09	30.4	17.3	0.1	6550	BR07018018	
129126	L2 drive		4.26	674	1.31	1160	30	0.83	21.9	0.01	12.7	42.1	44.6	2	0.72	5710	5.86	6.17	0.15	1.4	6.91	0.34	23.8	18.8	0.14	7600	BR07018018	
129127	L2 drive		9.97	623	1.58	847	30	1	24.3	0.02	18.1	99.3	117.5	2	1.05	4040	8.78	7.73	0.19	1.2	8.65	0.24	48.2	18.2	0.15	24700	BR07018018	
129128	L2 drive		1.61	67.7	2.51	5550	50	1.32	9.36	0.02	56.3	82.7	94.4	1	0.88	1300	7.92	11	0.18	2.5	4.49	0.46	40.9	33	1.02	7330	BR07018018	
129129	L2 drive		0.1	15	2.51	204	80	3.27	4.35	0.05	48.6	153.5	149	<1	1.67	364	21.4	15.15	0.41	1.8	2.5	0.64	75	11.3	0.75	83900	BR07018018	
129130	L2 drive		1.15	174	3.19	1160	30	1.12	17.3	0.83	79	278	530	1	1.85	1980	14.8	16	0.39	1.6	15.8	0.61	128	19.7	0.83	18200	BR07018018	
129131	L2 drive		0.99	38.1	4.25	698	70	1.69	21.1	0.03	5.27	332	492	<1	1.41	909	11.25	20.3	0.34	2.7	5.88	0.88	159	15.9	2.01	2150	BR07018018	
129132	L2 drive		0.54	26	3.1	>10000	20	0.98	1.97	0.42	10.1	101.5	125	<1	1.02	473	14.85	17	0.26	2.2	1.46	0.28	55.8	25.2	0.94	66300	BR07018018	
129133	L2 drive		0.7	61	4.09	>10000	20	2.27	4.25	0.58	16.4	309	136.5	<1	1.2	1390	14.7	21.4	0.33	1.2	3.15	0.27	144	26.5	1.21	74500	BR07018018	
129134	L2 drive		0.07	4	3.48	1020	80	1.02	1.48	0.07	2.42	92.5	100.5	2	2.06	220	7.14	10.8	0.15	2.8	0.701	1.39	44.8	12.9	0.28	9700	BR07018018	
129135	L2 drive		0.23	18.6	2.81	1250	60	0.91	2.33	0.05	7.16	202	210	1	1.55	1300	7.5	10.6	0.24	2	0.923	0.97	96.9	14.4	0.28	11650	BR07018018	
129136	L2 drive		0.11	10.7	5.19	208	40	2.7	1.48	0.13	27.2	101	188	1	0.84	221	12.35	27.6	0.26	3.4	1.375	0.15	49	16.3	2.82	28100	BR07018018	
129137	L2 drive		0.04	5.7	3.02	97.7	170	1.14	2.01	0.05	4.82	67.7	61.7	1	1.52	135	6.34	9.8	0.14	2.8	0.374	0.82	33.4	19.5	0.47	14900	BR07018018	
129138	L2 drive		0.03	0.7	5.13	485	990	2	0.6	0.11	12.8	142	50.7	1	2.63	61.8	7.44	15.75	0.21	4.4	0.389	2.41	71.7	19.3	1.87	19400	BR07018018	
129139	L2 drive		0.13	13.3	7.86	632	130	2.37	1.22	0.12	14.05	124.5	387	1	1.9	109.5	18.65	36.8	0.75	4.8	0.638	0.78	68	31.6	4.88	22300	BR07018018	
129140	L2 drive		0.06	1	6.51	23.9	390	0.88	0.96	0.09	0.43	20.5	228	1	1.44	16.7	10.8	23.4	0.25	5.7	0.112	4.24	8.5	20.1	4.67	1930	BR07018018	
129141	L2 drive		0.12	3	6.75	27.2	600	1.57	3.14	0.22	69.8	158.5	1030	1	1.49	27.1	17	21	0.5	5.3	0.102	2.68	73.3	21.4	4.84	24900	BR07018018	
129142	L2 drive		3.71	26.6	1.21	304	320	7.54	21.7	0.3	59.2	90	1190	<1	2.89	288	26.4	13	0.44	0.9	2.17	0.15	57.5	12.1	0.83	>100000	BR07018018	
129143	L2 drive		0.04	1.6	4.46	47.3	890	1.32	2.23	0.03	1.14	69.8	91.5	1	1.31	22	3.96	15.7	0.18	4.3	0.092	3.43	33.2	6.5	0.76	3060	BR07018018	
129144	L2 drive		0.05	4.5	3.97	93.6	90	1.5	1.09	0.07	7.87	73.9	161.5	1	2	33.6	12.3	15.5	0.23	3.8	0.539	0.89	36.6	21.3	0.72	27400	BR07018018	
129145	L2 drive		0.22	12	4.11	136.5	80	1.72	0.58	0.05	6.07	100.5	67.4	2	1.86	69.8	6.55	17.1	0.16	4.3	0.656	1.13	49.6	29.9	0.87	10350	BR07018018	
129146	L2 drive		0.02	3	5.12	105	180	2.5	0.59	0.03	5.01	75.7	105.5	1	3	11.5	6.35	16.75	0.16	6	0.337	2.24	36.6	12.8	0.57	14600	BR07018018	
129147	L2 drive		0.12	4	4.6	1750	220	1.4	0.9	0.05	34.9	134	130	1	2.15	60.3	8.25	14.4	0.19	5	0.457	1.44	71	20.7	0.63	22400	BR07018018	
129148	L2 drive		5.96	384	2.09	>10000	20	0.85	27.1	0.03	105	40.8	75.7	<1	0.7	5990	10.2	8.05	0.16	0.8	18.85	0.07	19.5	29.4	0.41	5700	BR07018018	
129149	L2 drive		6	1950	0.33	2950	60	0.24	280	0.02	62.6	9.56	57.1	1	0.24	41300	6.52	2.17	0.11	0.1	12.75	0.03	4.9	10.3	0.06	6550	BR07018018	
129150	L2 drive		16.45	1110	0.71	5470	10	0.36	13.0	0.01	366	29.4	30.8	3	0.69	7800	5.04	3.18	0.05	0.7	21.8	0.13	16.8	16.4	0.08	1070	BR07018018	
129151	L2 drive		8.48	314	1.73	2470	30	0.57	114.5	0.03	119	141	260	2	0.66	7720	9.16	6.32	0.2	2.1	17.6	0.29	77.2	15.6	0.33	1860	BR07018018	
129152	L2 drive		23.3	1370	0.15	3000	30	0.15	19.7	0.01	659	9.06	36.8	1	0.17	14700	3.15	1.5	<0.05	0.1	51.7	0.03	6.4	4.3	0.01	966	BR07018018	
129153	L2 drive		9.61	812	0.69	1860	20	0.87	19.45	0.01	14.85	17.75	253	2	0.55	5780	13.1	3.41	0.12	0.4	10	0.16	9.1	6.6	0.08	6970	BR07018018	

Spl_ID	Location	Distance (m)	Mo ppm	Na %	Nb ppm	Ni ppm	P ppm	Pb ppm	Rb ppm	Re ppm	S %	Sb ppm	Sc ppm	Se ppm	Sn ppm	Sr ppm	Ta ppm	Tc ppm	Th ppm	Ti %	Tl ppm	U ppm	V ppm	W ppm	Y ppm	Zn ppm	Zr ppm	Batch Number
129005	Upper open slope / surface / L-2	0-1	10.1	0.03	4.8	58.2	140	10700	50.9	0.003	3.11	18.65	5.2	1	14.7	7.9	0.44	1.77	9.5	0.055	0.52	25.7	18	159.5	51.3	2740	28.1	BR07018018
129006	Upper open slope / surface / L-2	1-2	6.42	0.05	15.3	18.8	430	245	121	0.002	1.41	1.9	10.2	<1	36	8.4	1.55	0.49	22.8	0.206	0.72	14.5	65	56.0	25.2	534	25.2	BR07018018
129007	Upper open slope / surface / L-2	2-3	5.42	0.02	4.7	30.6	190	3100	33.2	0.002	1.55	27	4	<1	11	3.6	0.5	0.41	9	0.072	0.36	8	26	33.5	25.2	843	31.5	BR07018018
129008	Upper open slope / surface / L-2	3-4	13.65	0.04	3.3	26.7	130	80800	33.6	0.002	0.91	79.2	4.9	1	11.7	9.7	0.29	0.43	5.1	0.048	0.71	32.7	16	47.7	70.2	7770	30.6	BR07018018
129009	Upper open slope / surface / L-2	4-5	5.49	0.02	2.1	28.1	80	14100	5	0.004	0.65	46.8	2.8	<1	1.8	7.6	0.2	0.31	3.3	0.031	0.25	7.8	9	20	40.1	6460	16.1	BR07018018
129010	Upper open slope / surface / L-2	5-6	5.09	0.02	7.4	17.4	390	20000	151.5	0.002	0.56	13.8	7.3	<1	21	6.8	0.69	0.33	19.5	0.119	0.75	9	49	36.2	29.8	3590	74.6	BR07018018
129011	Upper open slope / surface / L-2	6-7	5.64	0.01	4	20.1	150	47600	34	0.002	1.36	20.8	5.2	<1	7.8	4.2	0.44	0.29	11.2	0.065	0.53	13.5	29	18.2	27.5	5760	38.6	BR07018018
129012	Upper open slope / surface / L-2	7-8	53.4	0.02	3.6	10.6	180	136000	82.8	<0.002	1.54	311	4.5	<1	20.4	9.1	0.39	0.12	10.3	0.065	0.82	18.6	29	26	14.8	2850	37.6	BR07018018
129013	Upper open slope / surface / L-2	8-9	39.1	0.01	1.1	9.7	90	220000	8.4	0.002	0.87	1750	2.5	<1	8.5	3.7	0.1	0.23	2.7	0.02	0.44	12.9	13	41.5	9.6	2120	13	BR07018018
129014	Upper open slope / surface / L-2	9-10	2.04	0.01	0.5	4.7	40	264000	4.1	<0.002	5.23	666	0.5	<1	14.8	1.4	<0.05	0.15	0.7	0.005	0.34	3.2	2	13.2	2.1	12900	3.2	BR07018018
129015	Upper open slope / surface / L-2	10-11	8.04	0.01	7	7.6	150	260000	94.2	0.002	0.47	243	6.5	<1	25.8	3.7	0.64	0.28	13.6	0.1	0.63	8.9	32	17.4	20.3	1030	58.5	BR07018018
129016	Upper open slope / surface / L-2	11-12	2.71	0.01	4	20.1	110	380	84.0	0.002	0.26	39.5	9.3	<1	35.8	3.8	1.19	0.07	24.8	0.176	0.91	8	56	32.4	19.8	464	78.4	BR07018018
129017	Upper open slope / surface / L-2	12-13	7.21	0.02	3	16.9	120	167500	53.8	<0.002	1.8	236	4.6	<1	14.8	3.7	0.28	0.45	9.2	0.052	0.61	5.9	29	19.2	12.1	543	35.5	BR07018018
129018	Upper open slope / surface / L-2	13-14	1.5	0.02	8.1	10.1	380	23600	186	0.002	0.5	73.8	9.8	<1	28.3	4.2	0.84	0.05	23.7	0.134	0.92	10.6	55	28.9	19.9	1930	73.5	BR07018018
129019	Upper open slope / surface / L-2	14-15	1.94	0.01	3	8.4	110	117500	43.8	0.002	0.21	155	3.6	<1	16.4	3.1	0.27	0.12	9.6	0.059	0.48	10.9	26	13.7	15.1	1580	41.3	BR07018018
129020	Upper open slope / surface / L-2	15-16	2.39	0.01	2	4.1	20	107500	11.9	<0.002	1.19	333	0.7	<1	8.2	1.6	0.07	<0.05	1.7	0.012	0.25	1.8	5	10.5	2.4	2850	7.3	BR07018018
129021	Upper open slope / surface / L-2	16-17	4.47	0.04	6.2	6.7	260	48600	143.5	<0.002	0.52	193	7.8	<1	19.8	5.8	0.48	0.38	17.9	0.107	0.66	7.5	48	26.2	9.8	163	59.9	BR07018018
129022	Upper open slope / surface / L-2	17-18	2.6	0.02	5.5	5.7	170	143500	129	<0.002	2.22	1090	4.7	<1	28.2	2.7	0.45	<0.05	14.1	0.102	0.87	4.7	33	18.4	9.3	225	55.9	BR07018018
129023	Upper open slope / surface / L-2	18-19	3.63	0.01	3.2	8.7	70	118000	42.1	0.002	0.82	144.5	3.5	<1	9	2.5	0.29	0.31	8.4	0.064	0.3	5.5	26	9.1	8.7	1810	32.7	BR07018018
129024	Upper open slope / surface / L-2	19-20	1.19	0.01	1.9	4.5	20	428000	23.7	<0.002	9.2	1135	1.4	<1	10.7	2.3	0.1	<0.05	2.3	0.024	0.38	2.2	9	8.4	2.9	41600	12.9	BR07018018
129025	Upper open slope / surface / L-2	20-21	5.38	0.04	11.2	22	450	4910	200	<0.002	0.83	29.3	10.8	<1	28.5	4.4	1.08	0.25	26	0.196	0.91	6	61	23	19.4	705	81.6	BR07018018
129026	Upper open slope / surface / L-2	21-22	1.42	0.05	9.5	15.5	410	16300	126	<0.002	0.25	35.6	10	<1	23.8	16.8	0.93	0.1	24.5	0.165	0.86	6.6	59	28.2	17.2	672	82.1	BR07018018
129027	Upper open slope / surface / L-2	22-23	4.03	<0.01	0.4	5.9	10	417000	5.2	<0.002	2.37	565	1.3	<1	27.8	2	<0.05	<0.05	0.9	0.005	0.33	6.3	4	5.9	15.3	3470	5	BR07018018
129028	Upper open slope / surface / L-2	23-24	1.83	0.01	2.7	8.8	50	366000	32	<0.002	7.29	1060	1.7	<1	13.6	1.6	0.16	0.05	4.1	0.033	0.41	3.2	11	22	7.4	3910	17.5	BR07018018
129029	Upper open slope / surface / L-2	24-25	1.26	0.02	5.3	10.3	60	131500	145	<0.002	1.24	122	5.8	<1	17.6	2.7	0.42	0.09	15.6	0.102	0.74	5	37	18.1	10	197	57.4	BR07018018
129030	Upper open slope / surface / L-2	25-26	2.12	0.02	5.2	9.1	80	153500	105	<0.002	1.17	140.5	4.6	<1	14.9	2.5	0.48	0.14	14	0.195	0.61	5.1	35	16.1	7.3	154	46.7	BR07018018
129031	Upper open slope / surface / L-2	26-27	1.53	0.02	8.1	11.7	210	69000	151	<0.002	0.8	155	7.4	<1	23.7	3.3	0.67	0.11	18.8	0.126	0.76	5.6	49	18.9	15.1	84	67.6	BR07018018
129032	Upper open slope / surface / L-2	27-28	2.73	0.01	6.1	12.9	150	72700	119	0.002	1.39	174	5.5	<1	16.3	5.3	0.48	0.2	13.3	0.091	0.71	8	35	12.8	13.4	2190	43.4	BR07018018
129033	Upper open slope / surface / L-2	28-29	0.94	0.02	4.7	7.4	190	84200	111	<0.002	2.26	166.5	4.4	<1	22.4	3.7	0.37	<0.05	12.2	0.088	0.55	3	30	22	10.6	11300	39.2	BR07018018
129034	Upper open slope / surface / L-2	29-30	1.64	0.01	0.7	3.8	20	637000	5.7	<0.002	9.73	2030	0.3	<1	4.7	1.8	<0.05	<0.05	1.1	0.009	0.37	2.7	2	7.3	1.5	1220	5.1	BR07018018
129035	Upper open slope / surface / L-2	30-31	0.88	0.05	7.5	10.4	400	13500	153	0.002	0.28	29.2	8.5	<1	11.9	19.8	0.6	<0.05	2.7	0.135	1.19	5.8	56	26.3	18.8	713	85.8	BR07018018
129036	Upper open slope / surface / L-2	31-32	0.76	0.01	7.2	17.7	360	84200	118	0.002	1.7	17.7	10.4	<1	13.2	6.6	0.16	0.36	17.7	0.137	0.6	6	61	24.4	14.4	144	61.3	BR07018018
129037	Upper open slope / surface (L-2) down slope to open small adit (L-1)	0-1	0.83	0.17	12.5	18.3	340	3190	109	0.002	0.33	7.68	7.4	<1	7.6	36.4	1.11	0.26	22.8	0.156	0.98	5.9	46	28.2	20.9	643	78.6	BR07018018
129038	Upper open slope / surface (L-2) down slope to open small adit (L-1)	1-2	3.8	0.01	3.9	9.1	130	173500	60.6	<0.002	3.29	404	4.5	1	16.7	4.1	0.32	0.61	9.4	0.063	0.63	5.6	23	12.5	17.3	4690	35	BR07018018
129039	Upper open slope / surface (L-2) down slope to open small adit (L-1)	2-3	0.81	0.12	12	21.4	370	5390	180	0.002	0.15	11.85	11.4	<1	12.1	7.5	0.87	0.23	25.7	0.193	0.66	8.2	63	38.2	19.1	565	91	BR07018018
129040	Upper open slope / surface (L-2) down slope to open small adit (L-1)	3-4	0.62	0.92	12.4	27.9	310	2300	180	0.005	0.02	3.23	12.3	<1	3.1	39.3	1.37	<0.05	26.2	0.238	0.81	4.3	71	8.6	20.3	203	81.6	BR07018018
129041	Main adit south / 8m above river / L1	0-1	6.97	0.28	13.2	31.4	180	1445	148.5	0.006	0.74	5.99	13	<1	21.4	82.4	1.58	0.78	35.4	0.162	1.14	9.8	66	27.6	20	107	85.9	BR07018018
129042	Main adit south / 8m above river / L1	1-2	3.94	0.3	23.1	17.2	150	4550	247	0.002	1.6	12	3	2	12.7	174.5	3.32	2.33	74.5	0.302	1.9	10	26	64.5	14.9	116	265	BR07018018
129043	Main adit south / 8m above river / L1	2-3	0.51	0.32	13	20.8	380	2750	225	0.003	<0.01	3.21	11.6	<1	4.1	28.7	1.33	<0.05	27.8	0.228	1.02	10.2	59	12.6	38.6	226	82.3	BR07018018
129044	Main adit south / 8m above river / L1	3-4	2.53	0.08	7.6	10.2	230	35400	124.5	0.002	0.25	507	8.8	<1	18.4	15.8	0.73	0.36	14.7	0.124	1.25	18.7	39	26	22.8	295	48	BR07018018
129045	Main adit south / 8																											

Spl_ID	Location	Distance (m)	Mo ppm	Na %	Nb ppm	Ni ppm	P ppm	Pb ppm	Rb ppm	Re ppm	S %	Sb ppm	Sc ppm	Se ppm	Sn ppm	Sr ppm	Ta ppm	Te ppm	Th ppm	Ti %	Tl ppm	U ppm	V ppm	W ppm	Y ppm	Zn ppm	Zr ppm	Batch Number
129079	Drive north from 17m into Main adit (south, 8m above river) / L1-V1-N	0-1	5.14	0.03	10.8	21.6	330	1060	125	0.003	0.59	79.4	15.3	<1	19.2	17.6	1.59	0.36	24.2	0.171	0.59	23.9	51	21.4	38.2	1320	86.2	BR07018018
129080	Drive north from 17m into Main adit (south, 8m above river) / L1-V1-N	1-2	1.65	0.02	5.1	15.3	170	54200	107	0.003	1.22	24.7	6.7	1	18.6	5.4	0.59	0.38	13.6	0.099	0.7	9.1	38	11.1	22.9	4300	49.5	BR07018018
129081	Drive north from 17m into Main adit (south, 8m above river) / L1-V1-N	2-3	5.16	0.02	8.3	23.8	200	11600	110	0.002	2.13	59.2	6.3	<1	22.9	5	1.04	0.37	17	0.117	0.76	7.5	39	16.5	18.6	4800	59.6	BR07018018
129082	Drive north from 17m into Main adit (south, 8m above river) / L1-V1-N	3-4	0.72	0.02	4.8	10.7	70	49300	76.8	0.002	1.15	97.6	4.4	<1	14.1	4.7	0.47	0.13	12.2	0.089	0.47	5.5	30	23.4	7.7	343	43.2	BR07018018
129083	Drive north from 17m into Main adit (south, 8m above river) / L1-V1-N	4-5	2.73	0.02	5	12	180	107000	108	0.003	1.37	379	5.3	1	14.4	5.1	0.51	0.28	15	0.087	0.78	9.8	36	31.2	11.9	1110	57.4	BR07018018
129084	Drive north from 17m into Main adit (south, 8m above river) / L1-V1-N	5-6	2.49	0.01	6.1	11.5	170	65300	92.3	0.003	0.8	184	5.9	<1	18.4	4.5	0.54	0.17	15.4	0.108	0.59	10.8	35	12.9	13.9	1090	64.5	BR07018018
129085	Drive south from 17m into Main adit (south, 8m above river) / L1-V1-S	0-1	3.95	0.03	5.5	14.7	260	1935	135	0.003	0.07	27.3	9.8	<1	38.2	36.7	0.63	0.44	17.8	0.111	0.52	16	47	34.9	46.7	768	56.5	BR07018018
129086	Drive south from 17m into Main adit (south, 8m above river) / L1-V1-S	1-2	3.85	0.01	0.8	8.3	20	67700	6.2	0.004	3.1	134.5	1.4	<1	11.4	3.2	0.07	0.11	1.4	0.009	0.34	5.7	5	283	16.4	2780	7	BR07018018
129087	Drive south from 17m into Main adit (south, 8m above river) / L1-V1-S	2-3	4.54	0.01	1.4	12.3	80	25600	17.7	0.003	2.44	192	1.4	<1	7.5	3.2	0.08	0.25	3.4	0.024	0.35	6.7	8	39.2	14.7	4640	17	BR07018018
129088	Drive south from 17m into Main adit (south, 8m above river) / L1-V1-S	3-4	1.71	0.02	3.3	18.7	100	14200	59.5	0.003	1.55	138.5	3.9	<1	21.8	2.9	0.22	0.26	8.7	0.055	0.35	5.1	21	40	21.4	530	30.2	BR07018018
129089	Drive south from 17m into Main adit (south, 8m above river) / L1-V1-S	4-5	1.6	0.03	9.1	11.9	360	3480	190.5	0.002	0.16	106	9.3	<1	71	8.3	0.84	0.17	25.2	0.151	0.59	8.3	56	43.8	29.7	1780	72.8	BR07018018
129090	Drive south from 17m into Main adit (south, 8m above river) / L1-V1-S	5-6	0.46	0.05	9.2	17	430	1945	224	0.002	0.21	8.32	9.6	<1	26	20.6	0.75	0.09	25.9	0.176	0.71	6.7	60	48.6	26	145	75.4	BR07018018
129091	Drive south from 17m into Main adit (south, 8m above river) / L1-V1-S	6-7	5.88	0.04	9	17.2	410	1135	202	0.003	0.67	8.29	9.8	<1	51	7.5	0.84	0.31	25.1	0.17	0.68	8.5	62	24.8	22.6	318	74.9	BR07018018
129092	Drive south from 17m into Main adit (south, 8m above river) / L1-V1-S	7-8	0.71	0.03	10.4	19.7	420	1735	201	<0.002	0.11	11.55	9.4	<1	24.2	9	0.93	<0.05	28.2	0.19	0.68	4.9	60	33.4	21.7	146	77.9	BR07018018
129093	Drive south from 17m into Main adit (south, 8m above river) / L1-V1-S	8-9	1.07	0.05	7.2	11.4	390	583	168.5	0.002	0.54	5.56	8.2	1	25.4	18.8	0.73	0.17	22.8	0.134	0.72	6.8	43	19.3	24.1	167	68.6	BR07018018
129094	Drive south from 17m into Main adit (south, 8m above river) / L1-V1-S	9-10	0.9	0.05	12.2	16.5	520	210	233	0.002	0.33	3.53	12.8	<1	33.7	11.6	1.11	0.1	29	0.213	0.83	5.2	72	23.6	17.3	451	84.7	BR07018018
129095	Drive south from 17m into Main adit (south, 8m above river) / L1-V1-S	10-11	0.29	0.04	11.7	12.5	430	155	240	0.003	0.17	2.19	10.5	<1	51.3	14	1.05	0.08	28.2	0.202	0.72	8.8	62	36.2	18.3	66	84.1	BR07018018
129101	Main adit north/ 2m above river / L2	0-1	0.39	1.79	10.2	9.7	100	283	183	<0.002	0.52	2.95	4.3	1	7.2	49.4	0.93	0.09	25.6	0.168	0.77	9.2	31	19.1	12.8	449	76.5	BR07018018
129102	Main adit north/ 2m above river / L2	1-2	0.33	0.05	9.2	5.5	170	874	256	<0.002	0.32	17.9	7.4	<1	11.1	6	0.93	<0.05	27.8	0.163	1.08	9.2	45	14.7	16.3	161	76.4	BR07018018
129103	Main adit north/ 2m above river / L2	2-3	1.65	1.59	9.5	10.4	220	176	204	<0.002	0.21	1.6	8.9	<1	6.7	89.4	0.84	0.05	24.5	0.159	0.78	10.3	45	17.1	13.9	380	95.4	BR07018018
129104	Main adit north/ 2m above river / L2	3-4	0.32	2.1	14.9	11.6	300	94	137	0.003	0.11	1.35	11.6	1	27.5	76.9	1.17	0.07	29.5	0.177	0.37	4.3	59	56.7	20.3	323	63.5	BR07018018
129105	Main adit north/ 2m above river / L2	4-5	0.39	0.66	8.9	8.9	40	145	239	0.002	0.82	1.72	4.5	<1	12.4	52.8	0.79	0.2	22.4	0.123	0.97	4.6	29	18.5	9.4	265	73.1	BR07018018
129106	Main adit north/ 2m above river / L2	5-6	7.59	0.04	6.2	37.1	70	1190	150	0.003	5.42	13.15	6.5	3	19.9	10	0.63	1.12	44.6	0.079	0.77	8.4	21	10.1	27.4	804	63.3	BR07018018
129107	Main adit north/ 2m above river / L2	6-7	10.8	0.05	5.4	31.1	290	1060	127.5	0.003	4.03	14.15	5.6	3	12	25.5	0.66	1.47	40.2	0.066	0.67	7.8	21	15	24.7	1530	44.1	BR07018018
129108	Main adit north/ 2m above river / L2	7-8	1.3	0.21	8	11.3	290	859	246	0.002	0.31	2.68	9.4	<1	6.4	71.2	0.76	0.23	22.7	0.138	1.04	9.1	63	12.1	19.5	592	67.2	BR07018018
129109	Main adit north/ 2m above river / L2	8-9	16.1	0.08	9.2	12.1	210	959	250	0.002	0.28	6.48	8.8	<1	11.2	30.4	0.88	0.16	26.5	0.125	1.16	8.1	38	13.5	19.7	352	94.8	BR07018018
129110	Main adit north/ 2m above river / L2	9-10	22.3	0.09	6.2	14.2	180	1885	210	<0.002	0.53	3.39	7.4	<1	6.5	52.9	0.72	0.24	21.8	0.091	1.05	5.3	31	13	10.6	105	87	BR07018018
129111	Main adit north/ 2m above river / L2	10-11	10.4	0.1	7.1	13.2	190	129	248	0.002	0.08	1.41	8.5	1	4.2	52	0.74	0.15	23.7	0.11	1.07	5.5	37	7.6	14.2	71	97	BR07018018
129112	Main adit north/ 2m above river / L2	11-12	c	0.02	6.2	56.2	140	6160	108.5	0.01	8.7	35.3	7.9	7	21.5	4.3	0.56	2.68	11.7	0.073	0.6	3.8	41	8.2	14.7	1380	42.7	BR07018018

Spl_ID	Location	Distance (m)	Mo ppm	Na %	Nb ppm	Ni ppm	P ppm	Pb ppm	Rb ppm	Re ppm	S %	Sb ppm	Sc ppm	Se ppm	Sn ppm	Sr ppm	Ta ppm	Te ppm	Th ppm	Ti %	Tl ppm	U ppm	V ppm	W ppm	Y ppm	Zn ppm	Zr ppm	Batch Number
129113	L2 drive		57.6	0.26	7.8	34.3	310	977	67.7	0.004	1.79	23.6	17.8	1	24.8	23	0.65	0.42	15.9	0.117	0.48	8.1	69	9.1	15.5	1060	76.4	BR07018018
129114	L2 drive		14.1	0.03	6.4	38.4	80	8000	123	0.007	1.85	63	12.3	2	17.6	6.4	0.48	2.6	14.6	0.056	0.5	14.2	23	15.7	32.1	1950	85.7	BR07018018
129115	L2 drive		3.37	0.01	0.3	11	10	153000	3.8	0.005	7.38	339	0.7	3	15.8	1.6	<0.05	0.42	0.6	<0.005	0.71	1.2	2	6.7	6.6	63600	2.4	BR07018018
129116	L2 drive		5.24	0.05	3.7	8.7	60	214000	81.4	0.006	0.46	346	6.3	1	20.5	5.6	0.35	0.42	11.3	0.041	0.7	4.8	20	8.2	13.2	396	83.6	BR07018018
129117	L2 drive		7.39	0.03	3.7	26.2	280	301000	23.8	0.004	2	563	8.2	1	17.3	7	0.36	1.34	7	0.055	0.39	11.3	38	23.1	20.8	520	47	BR07018018
129118	L2 drive		8.16	0.01	6.2	89.9	190	11400	29.2	0.005	0.43	16.75	18.4	2	8.3	26.4	0.51	3.4	10.8	0.054	0.19	9.2	17	12.5	75.6	3830	71.7	BR07018018
129119	L2 drive		7.21	0.01	6.7	61.6	70	12300	41.8	0.005	3.97	64	13.4	2	15.1	2.2	0.5	2.85	10.6	0.06	0.29	4.6	22	9.9	57.1	4370	79.9	BR07018018
129120	L2 drive		9.92	0.03	3	33.8	80	236000	44	<0.009	3.36	178	6.7	2	18	3.6	0.23	0.84	6.3	0.038	0.34	4.6	21	8.7	21	653	51	BR07018018
129121	L2 drive		4.49	0.21	5.8	50.7	280	223000	149.5	0.002	3.28	33.9	29.8	2	54.6	17.7	0.82	0.79	11.6	0.105	1.01	6.6	115	7.8	49.4	2870	113	BR07018018
129122	L2 drive		8.96	0.01	0.5	14.5	30	161500	6.7	0.003	3.07	270	5.3	1	17.5	27.2	0.07	0.53	0.9	<0.005	0.34	13	2	15.5	23.1	6030	7.1	BR07018018
129123	L2 drive		10.6	0.02	0.8	66.1	80	40500	9.9	0.004	0.34	50.5	19.3	1	6.1	115.5	0.1	2.24	1.4	0.007	0.35	15.7	7	3.8	99.2	11600	9.9	BR07018018
129124	L2 drive		2.17	<0.01	0.7	9.4	10	402000	4.3	0.002	8.33	720	1.5	<1	18.8	5.8	0.05	0.3	1.1	0.006	0.19	1.2	3	21.4	13.3	3970	7.8	BR07018018
129125	L2 drive		6.39	0.01	2.1	18.6	60	118500	8.9	0.002	7.06	277	5.1	1	37.1	5.2	0.22	0.61	4.6	0.025	0.17	5.7	13	6.7	22.2	1860	41	BR07018018
129126	L2 drive		2.92	0.02	2.4	10.7	110	261000	30	<0.002	3.31	387	4.4	1	13	6.2	0.18	0.3	5.6	0.022	0.21	3.5	7	6.6	27.3	2200	37.5	BR07018018
129127	L2 drive		19.05	0.03	1.6	12.5	150	163500	23	0.006	1.81	428	7.4	5	15	15.3	0.11	1.31	3.9	0.024	0.22	4.2	21	7.9	35.4	3460	31.6	BR07018018
129128	L2 drive		9.86	0.02	5.4	19.2	60	35700	35.8	0.003	2.4	55.4	8.4	2	14.9	5.7	0.34	0.72	9	0.055	0.21	3.9	21	10.4	27.9	11100	66.1	BR07018018
129129	L2 drive		15.35	0.02	4.9	32.6	120	20300	41.5	0.002	0.86	18.35	25.7	2	10.4	46.7	0.42	0.78	8.5	0.038	0.28	6.4	27	8.3	152	6760	45.4	BR07018018
129130	L2 drive		8.78	0.01	5.2	33.1	180	86100	41.6	0.004	6.95	86.6	10.9	6	14.1	5.4	0.36	2.44	7.5	0.039	0.43	3.8	40	11.5	37.4	15300	49.6	BR07018018
129131	L2 drive		16	0.08	8.8	84.4	180	99500	45.3	<0.002	5.96	31.3	12	1	20.9	8	0.64	4.21	11.1	0.062	0.26	3.6	63	12.4	18.5	1240	81.5	BR07018018
129132	L2 drive		15.7	0.03	9.5	33.9	100	24800	36.2	<0.002	3.27	66.2	13.1	<1	13	3.7	0.56	0.72	6.4	0.094	0.27	3.3	62	23.4	33.6	1960	57.6	BR07018018
129133	L2 drive		16.7	0.21	11	50.3	200	67700	38.7	0.005	3.47	61.8	24.8	1	21.8	15.4	0.57	0.89	5.8	0.087	0.31	2.4	87	20.7	52.2	2020	37.7	BR07018018
129134	L2 drive		6.32	0.02	6.9	30.2	90	39500	103	<0.002	3.63	71.3	5	<1	22.3	2.1	0.4	0.77	11.6	0.074	0.51	3.2	22	13.1	12.3	437	77.8	BR07018018
129135	L2 drive		18.85	0.02	6.4	43.3	130	29900	72.7	0.002	3.87	37.5	5.4	<1	15.5	5.8	0.33	0.79	8.4	0.068	0.38	2.9	22	15.1	21.1	966	56.2	BR07018018
129136	L2 drive		22.2	0.3	17.8	69.8	280	5720	8.4	0.002	2.13	13.05	20.3	1	55.8	43.2	0.8	0.86	12	0.118	0.16	5	119	23.6	37.6	4580	84	BR07018018
129137	L2 drive		27.8	0.02	3.9	20.4	140	4460	65.2	0.002	0.29	16.35	4.8	<1	17.5	21.2	0.3	0.7	10.1	0.035	0.33	4.2	11	9.5	21	1670	73.1	BR07018018
129138	L2 drive		5.79	0.03	11.7	24.9	240	2540	116	<0.002	0.32	7.83	8.7	<1	17.9	26.4	0.7	0.25	16.9	0.103	0.46	6.5	21	19	40.5	3590	136	BR07018018
129139	L2 drive		13.6	0.04	12	113	230	5620	49	<0.002	1.89	18.65	24.5	1	28.9	17.2	1.07	1.1	19.3	0.123	0.29	9	85	19.8	43.7	4830	131.5	BR07018018
129140	L2 drive		19.1	0.07	11.1	51.5	360	594	52.4	0.002	2.18	3.35	9.1	1	23.4	17.6	1.05	0.84	8.1	0.085	0.57	5.6	39	9.6	18.2	344	143	BR07018018
129141	L2 drive		24.2	0.06	17.8	164	260	1510	78.4	0.003	9.5	3.76	19.7	3	25.5	11.9	1.12	2.59	18.4	0.133	0.4	6.9	42	27.9	65.8	8910	143.5	BR07018018
129142	L2 drive		21.1	0.02	1.6	463	80	2350	12.1	0.005	0.43	27.8	35.3	4	3.9	164.5	0.2	16.1	3.5	0.01	0.68	23.5	12	122.5	316	14100	12.9	BR07018018
129143	L2 drive		32.6	0.1	9	27.4	90	298	136.5	0.002	0.77	2.18	9.9	1	26.1	20.5	0.59	1.58	12.4	0.103	0.54	3.7	24	20.7	15.8	386	107	BR07018018
129144	L2 drive		9.56	0.03	7.5	27.2	100	2420	60.6	<0.002	0.62	5.35	15.7	<1	16.6	31.1	0.54	0.57	15	0.074	0.24	5.2	26	14.4	26.6	1920	101.5	BR07018018
129145	L2 drive		9.64	0.02	8.1	17.6	70	9440	86.6	<0.002	0.44	24.9	8.4	<1	20.3	8.8	0.56	0.29	16.1	0.073	0.34	5.7	16	13.7	18.3	1550	109	BR07018018
129146	L2 drive		5.89	0.04	8.7	21.3	100	8810	168	<0.002	0.56	29.9	9.1	<1	33	15.3	0.64	0.45	22.2	0.077	0.77	7.8	16	13.8	22.4	1580	152.5	BR07018018
129147	L2 drive		7.22	0.03	6.9	28	90	4370	115.5	0.002	1.02	22.9	8.1	<1	22.5	22.4	0.51	0.55	17.4	0.061	0.6	6.6	10	15.5	26.9	1950	156	BR07018018
129148	L2 drive		9.94	0.02	1.7	33.3	40	108500	8.2	0.002	5.96	322	9.1	<1	17.2	6.7	0.14	1.58	2.2	0.02	0.48	3.6	29	15.1	24.4	20700	23.1	BR07018018
129149	L2 drive		5.92	<0.01	0.8	22.1	10	44600	3.1	<0.002	8.62	1195	1.6	<1	26.2	1.1	<0.05	0.63	0.4	<0.005	0.33	3.2	3	13.8	10.9	11900	3.9	BR07018018
129150	L2 drive		2.24	0.01	1.7	13.5	30	279000	16	<0.002	8.32	575	3.7	2	18.9	1.1	0.11	0.18	2.3	0.014	0.92	2.2	7	178	6.7	72600	19.9	BR07018018
129151	L2 drive		7.54	0.01	2.8	31.7	130	121000	27.9	<0.002	6.1	112.5	5	3	13.8	2.2	0.23	1.28	6.3	0.028	0.35	2.9	10	27.4	23.1	25300	62.1	BR07018018
129152	L2 drive		1.94	<0.01	0.4	4.3	10	547000	2.9	<0.002	>10.0	730	0.8	4	24.5	0.9	<0.05	1.39	0.4	<0.005	0.44	0.7	2	3.1	9.9	131000	2.8	BR07018018
129153	L2 drive		12	0.01	1.4	14.8	20	323000	21.9	<0.002	7.82	752	4.2	3	17.2	1.6	0.08	0.95	1.6	0.012	0.55	4	8	7.5	16.7	3080	11.9	BR07018018

Appendix 4 – Drill logs and codes

Pluton Resources Detailed Drill Log																													
Hole Number		DR1	Sheet No	Mineralisation / Alteration and additional descriptors																				Full description: including colour, main alteration type and strength, component minerals (pref in order of abundance), rock type, texture, alteration and mineralisation details eg: pale green phyllic (moderate) quartz-feldspar phyric dacite porphyry, phenocrysts to 4mm, sericitic (m) altered phenocrysts, silica (w) altered groundmass, pyrite(3-5%) as disseminations and minor veinlets					
INTERVAL		ROCK CODES		Alteration summary				Pyrite	Chalco		Haem	Magnet		Potassic K feldspar	Chloritic	Sericitic	Haematitic	T'maline	QVN	Other minerals / texture / colour						Colour			
FROM (m)	TO (m)	Strat Code	Rock type	Primary Altn	2nd Altn	3rd Altn	Weathering	Amount % Style	Amount (WMS) Style	Mineral 1 Style	Amount %	Mineral 2 Style	Amount %	Broken (WMS)	Colour														
151.60	151.80		VSST	SiSx	Arg			D	15																	A-W	White (clay altered)and grey (silica) quartz poor fine volcanoclastic sandstone, 15-20% disseminations		
151.70	153.50		VSST	SIL	HEM					Vn	5					SP	w/m									2A-3R	Silica-Haematite altered crystal rich volcanoclastic sandstone, qtz 30%		
153.50	156.70		VSST	KSP	Arg					Vn	0.2		SP	w/m	Rp	vw					P	w/m		Li	P	5		3O-2P	Ksp orange lithic weak-moderate crystal rich volc sst, 30% qtz
156.70	159.00		VSST	KSP	Chl	Ser							P	w/m	SP	w/m	Sp	w/m						Li	Sv	2		2/3Br-2Gr	Dark brown and green spotted crystal rich volcanoclastic sandstone
159.00	169.50		VSST	HEM	Arg					Vn	0.1		SP	vw	Rp	vw					SP	w/m		Li	SP	10		1P-1O	Light pink and orange crystal rich, lithic rich volcanoclastic sandstone, silica-haematite and silica-limonite semi-pervasive alteration
169.50	170.90		VSST	KSP	Chl	Ser				Vn	0.1		P	w/m	P	vw	Rp	vw					Li	Sv	1.5		3Br-2Gr	Brown and green spotty lithic rich volcanoclastic sandstone Fining down hole	
170.90	171.30		VSST	Chl				D	0.1						P	m											3Gr	Fine grained quartz poor fine volcanoclastic sandstone. Chlorite alteration as replacement of crystal phases and pervasive matrix alteration and clay? altered	
171.30	172.10		VSST	KSP	Chl								P	m			Rp	w/m									4Br	Coarser bed similar to above composition, lithic rich volcanoclastic sandstone	
172.10	177.20		VSST	Chl				D	0.1						P	m/s											4A	Dark grey quartz poor lithic rich volcanoclastic sandstone, possibly coarsening down hole	
177.20	178.40		VSST	KSP	Chl	Ser							P	w/m	SP	w	Rp	w									4A-P	Dark grey and pink, crystal rich, lithic rich volcanoclastic sandstone, 2% pyrite, possibly a fine top to a bed near downhole contact at 178.2	
178.40	186.10		VSST	KSP	Chl	Ser		D	0.1				P	m	Rp	w/m	Rp	w/m									3/4Br-3Gr	Med-dark brown and green spotted crystal rich volcanoclastic sandstone, lithics absent? Semi-pervasive chloritic alteration and replacement of crystal phases with occasional sericitic alteration	
186.10	188.20		VSST	KSP									P	m			Rp	vw									4Br	Dark brown potassically and haematite altered crystal rich lithic weak? volcanoclastic sandstone, occasional pink ksp development but potassic alteration of matrix is strong with all but quartz and cream wispy crystal phase replaced	
188.20	188.60		VSST	KSP	Sil	Ser							P	w/m			SP	w/m									3Br-2Gr	Medium brown (potassic) and olive green (silica) altered fine volcanoclastic sandstone, @189.7, probable fining down hole then coarse bed "scours" over ie: grades downhole = steep dip or overturned?	
188.60	190.45		VSST	KSP									P	m													4Br	Dark brown potassically altered crystal rich lithic weak volcanoclastic sandstone	
190.45	190.60		VSST	KSP	Sil								P	m													4/5Br	Very dark brown fine grained quartz poor volcanoclastic sandstone, @190.6 probable fining down hole then coarse bed "scours" over ie: grades downhole = steep dip	
190.60	191.25		VSST	KSP						Vn	4		P	m													4Br	Dark brown potassically altered crystal rich lithic weak volcanoclastic sandstone, k feldspar replacement of crystal phase (w) and one 4cm haematite vein nearly coincident with probable bedding plane	
191.25	191.95		VSST	KSP	Sil	HEM				Vn	2		P	m													2Gr-3Br	Olive grey-green (silica) and dark brown (potassic) veined fine grained quartz poor volcanoclastic sandstone	
191.95	195.60		VSST	KSP	Ser	Chl				Vn	2		P	m	Rp	w/m	Rp	w/m									3/4Br-3A	Dark brown coarse lithic rich quartz crystal rich volc sst with numerous dark grey "fluidised fine grained interbeds" with irregular boundaries suggesting sediment dykes or dewatering of the sedimentary pile, a single 1.5cm haematite vein	
195.60	196.35		VSST	KSP	Sil	Chl							P	w/m	P	w	Rp	w									3Gr-4Br	Olive grey-green (silica) and dark brown (potassic) veined fine grained quartz poor volcanoclastic sandstone with minor inbeds of carser quartz rich material	

Pluton Resources Detailed Drill Log																													
Hole Number		DR1	Sheet No	Mineralisation / Alteration and additional descriptors																							Full description: including colour, main alteration type and strength, component minerals (pref in order of abundance), rock type, texture, alteration and mineralisation details eg: pale green phyllic (moderate) quartz-feldspar phyric dacite porphyry, phenocrysts to 4mm, sericite (m) altered phenocrysts, silica (w) altered groundmass, pyrite(3-5%) as disseminations and minor veinlets		
INTERVAL		ROCK CODES		Alteration summary				Pyrite	Chalco	Haem	Magnet	Potassic K feldspar		Chloritic	Sericitic	Haematitic	T'maine	QVN	Other minerals / texture / colour						Colour				
FROM (m)	TO (m)	Strat Code	Rock type	Primary Altn	2nd Altn	3rd Altn	Weathering	Amount % S/ve	Amount (WMS) S/ve	Mineral 1 S/ve	Amount %	Mineral 2 S/ve	S/ve	Amount %	Broken (WMS)	Colour													
196.35	199.40		VSST	KSP	Chl					Vn	0.5		SP	m	SP	m											4Br-4Gr	Coarse with sparse lithics, potassically altered (pervasive) with probable overprint of semi-pervasive and blotchy hard dark green silicate, minor haematite veinlets	
199.40	200.20		VSST	Chl	KSP								Sp	w/m	P	m/s											4A-N	Dark grey fine grained quartz poor volcaniclastic sandstone, probable chlorite-silica in matrix, breccia like lower contact with matrix of fine grained unit containing angular blocks of light brown-pink crystal rich qtz-plag bearing volc sandstone	
200.20	205.25		VSST	Chl	KSP	Ser		D	0.1				SP	vw	P	m	Rp	w									4Br-4Gr	Dark brown and green K-feldspar and chlorite altered coarse crystal rich lithic poor volcaniclastic sandstone, up to 25% plage replaced by chlorite and occasionally sericite? Rimmed, 30% subrounded quartz (3-9mm), 4% light crystal phase probably after biotite	
205.25	205.80		VSST	Chl				D	0.1						P	m											4Gr-4A	Dark green-grey fine grained quartz poor volcaniclastic sandstone, probable chlorite-silica in matrix	
205.80	215.20		VSST	KSP	Chl							Vn	0.5	SP	m	Rp	w/m										4Gr-3Br	Dark green to medium brown quartz rich (rounded to 7mm) lithic poor volcaniclastic sandstone with minor fine lithic rich (darker) beds with probable inclusions/rippups of coarser quartz rich unit, semipervasive potassic alteration (m)	
215.20	215.55		VSST	Chl	KSP			D	0.2				SP	w	P	m											4A	Fine lithic rich quartz poor volcaniclastic sandstone, dark from pervasive chlorite (m) overprinting potassic (w) alteration, weak disseminated pyrite	
215.55	221.60		VSST	KSP				Vn	0.2	Vn	0.1									Vn	2	P	m			Sp	w	3Br>4A	Orangish Brown and dark grey altered coarse quartz rich lithic weak volcaniclastic sandstone, pervasive potassic alteration with late quartz-chlorite veins to 8mm (4/metre), occasional pale to light green alteration clots and pyrite in veins to 0.5%
221.60	222.05		VSST	Chl	KSP			D	0.5				Rp	w	P	m	Rp	vw									4A	Dark grey-green fine lithic rich quartz poor volcaniclastic sandstone, dark from pervasive chlorite (m) alteration, weak disseminated pyrite	
222.05	225.00		VSST	KSP	Chl			D	2			Vn	0.2	P	m	SP	w/m										3Br>4A	Orangish Brown and dark grey altered coarse quartz rich lithic weak volcaniclastic sandstone, pervasive potassic alteration, rare haematite veinlets, pyrite increasing down hole towards next pyritic interval.	
225.00	225.30		VSST	Sil	KSP			D	4			Vn	0.1	SP	vw												2A	Light-med grey fine grained silicified lithic rich quartz poor volcaniclastic sandstone with 4% disseminated pyrite and spotty k-feldspar alteration	
225.30	231.60		VSST	KSP	Chl	HEM		D	2			Vn	0.5	P	m	SP	w/m	Rp	vw								3Br-4A	Orange-brown and dark grey quartz rich coarse volcaniclastic sandstone with moderate pervasive potassic alteration, 3 haematite veins/m, 2% dissem py, 5-10cm interbeds of fine lithic rich volc sandstone with irregular contacts, sericite pseudomorphing wispy/rectangular crystal shapes (2%)	
231.60	232.00		VSST	Sil	DSX			D	4	Sp	0.2																2A	Light grey fine grained silicified quartz(m) volcaniclastic sandstone with 4% disseminated pyrite	
232.00	232.25		VSST	KSP	DSX			D	4					P	m/s												3Br-3O	Orangish brown moderately-strongly potassically altered matrix to quartz rich lithic weak volcaniclastic sandstone with 4% dissem pyrite, quartz to 7mm rounded, spotty ksp replacing 3mm subhedral crystal phase, possible biotite component (1%)replaced by pyrite/chlorite/sericite	
232.25	233.20		VSST	SiSX	KSP			D	12	Sp	0.7			SP	w												2A	Light grey coarse grained quartz rich volcaniclastic sandstone with strongly disseminated py->cpy and probable silica alteration of matrix, cpy as clots	
233.20	235.30		VSST	KSP				D	2.5	D	0.1			P	m												3O/Br>>4A	Orangish brown moderately potassically altered volcaniclastic sandstone with darker py associated alteration overprint, dissem inated pyrite 2-3% and trace disseminated cpy, rounded quartz to 30% and fine grained sediment possibly injected as soft sediment deformation	
235.30	235.45		VSST	KSP	DSX			D	10	Sp	0.2			P	m												3O-3Br	Orangish brown pervasively potassically altered (m) fine grained (angular quartz to 3mm) volcaniclastic sandstone disseminated pyrite to 10% and clots of cpy (0.2%), pinkish k-feldspar replacement of crystal phase (5%), prob fining down hole	
235.45	238.10		VSST	TML	HEM	KSP		D	8	D	0.1	Vn	10	SP	vw					Vn	m	SP	m				N-3R-3Br-1A	Black red-silver, light grey and orangish red(subordinate) strongly altered volcaniclastic sandstone with tourmaline?- haematite veining and silica-pyrite alteration swamping a quartz rich volcaniclastic sandstone, possibly approaching a fault (fractured) down hole, pyrite 8% but 15% locally	
238.10	243.10		VSST	KSP	Sil	HEM		Vn	2			Vn	1	P	m	Vn	vw			SP	vw						3O-4Br-2A	Orange-brown quartz rich coarse volcaniclastic sandstone with moderate pervasive potassic alteration, occasional zones of silicification (light grey), 3 haematite veinlets/m, 2% dissem and vein pyrite associated with silicified zones and haematite veinlets, also spotty kfeldspar replacing crystal phase (plagioclase?)	
243.10	244.00		VSST	HEM	TML			D	2			Vn	5							P	S	Vn	m				4A-N-4R	Dark grey, red and black, fine to medium grained quartz poor probable (fine) lithic rich pervasively haematite altered volcaniclastic sandstone with weak disseminated pyrite and moderate tourmaline veining towards end of interval, haematite replacing ~40% of the matrix/clasts	

Pluton Resources Detailed Drill Log																																							
Hole Number		DR1	Sheet No	Mineralisation / Alteration and additional descriptors																								Full description: including colour, main alteration type and strength, component minerals (pref in order of abundance), rock type, texture, alteration and mineralisation details eg: pale green phyllic (moderate) quartz-feldspar phytic dacite porphyry, phenocrysts to 4mm, sericite (m) altered phenocrysts, silica (w) altered groundmass, pyrite(3-5%) as disseminations and minor veinlets											
INTERVAL		ROCK CODES		Alteration summary				Pyrite		Chalco		Haem		Magnet		Potassic K-feldspar		Chloritic		Sericitic		Haematitic		T'maline		QVN		Other minerals / texture / colour											
FROM (m)	TO (m)	Sheet Code	Rock type	Primary Altn	2nd Altn	3rd Altn	Weathering	Style	Amount %	Style	Amount %	Style	Amount %	Style	Amount %	Style	Amount (MMS)	Style	Amount (MMS)	Style	Amount (MMS)	Style	Amount (MMS)	Style	Amount (MMS)	Style	Amount (MMS)	Mineral 1	Style	Amount %	Mineral 2	Style	Amount %	Broken (MMS)	Colour				
244.00	249.25		VSST	HEM	KSP	TML		D	0.1			Vn	0.1			SP	w/m					SP	m	Rp	w/m										W	4Br-4O-4R-4A	Dark brownish-red haematite and potassic altered quartz rich, lithic weak volcaniclastic sandstone with med-dark grey/black interbeds of fine quartz poor volc sandstone, spotty pink K-feldspar development particularly in the finer units, possible tourmaline replacement of matrix in fine units with pseudobreccia of coarse volc sandstone 'clasts', fine units appear to be fining up hole eg:246.5 and 248.7, however bed form is irregular and may indicate fluidised sediment		
249.25	265.25		VSST	HEM	KSP			Vn	0.1			Vn	0.3			SP	w	Vn	vw			SP	m/s												W	4R-4O-4Br	Dark brownish-red strong semi-pervasive and pervasive haematite and lesser potassic altered quartz rich, lithic weak volcaniclastic sandstone with grey or reddish haematitic 5-10cm interbeds of fine quartz poor volcaniclastic sandstone, very weak spotty pink K-feldspar development particularly in the finer units, one chloritic veined zone and one py-chl-hm-qtz vein		
265.25	267.20		VSST	Sil	KSP	HEM		D	2.5	Vn	0.1	Vn	4	Vn	0.2	P	m					Vn	m												W	2A-3O/Br	Light grey (pervasive silica altered) and medium orange-brown (pervasive potassic alteration) of coarse and fine volcaniclastic sandstone, potassic alteration favours the coarse unit and silica-pyrite alteration is preferential in the fine unit, late haematite veins up to 10/m with accessory pyrite, one magnetite bearing vein and cpy as clots in haematite veinlets		
267.20	270.60		VSST	KSP	HEM	Sil		D	0.1			Vn	0.5			P	m					SP	w/m				vw								W	3O>4A	Orange and grey quartz rich lithic poor volcaniclastic sandstone, with concentration of lithics down hole, pervasive potassic alteration, 30% rounded quartz to 8mm, pink K-feldspar replacement of crystal phase (plagioclase) and late haematite veinlets 3/m		
270.60	271.00		VSST	KSP	Chl	HEM		Vn	0.1			Vn	1			P	m	SP	w			Vn	w				vw								W	3O/Br-3A	Pinkish-brown fine grained quartz weak probably lithic rich volcaniclastic sandstone, K-feldspar replacing crystal or lithic phase to 3mm, late hem veinlets		
271.00	273.00		VSST	Sil	KSP	HEM		Vn	2	Sp	0.1	Vn	0.5			P	m					Vn	w												W	2A-3O/Br	Light grey (pervasive silica altered) and medium orange-brown (pervasive potassic alteration) coarse quartz rich volcaniclastic sandstone, silica alteration associated with 3% pyrite, late haematite veinlets, pink K-feldspar spotting in potassic altered zones replacing crystal phase and 2-3% (replaced biotite) tabular cream crystal phase to 2mm		
273.00	273.30		VSST	KSP	Sil			Vn	0.2			Vn	0.5			Sp	m					Vn	vw				vw								W	3O-4A	Pinkish-orange and medium grey fine grained potassically altered lithic rich volcaniclastic sandstone, pink spotty K-feldspar development replacing up to 30% of clasts/crystals		
273.30	282.90		VSST	KSP	Chl	HEM		Vn	0.5			Vn	0.2	Vn	0.2	P	m	SP	m			SP	w													W	3/4Br-4Gr	Orangish-brown and dark green-brown coarse quartz rich volcaniclastic sandstone, alternating zones of potassic-haematitic and potassic-chloritic alteration, chloritic alteration has some disseminated magnetite and magnetite occurs in a vein with concentrated pyrite, haematite veining associated with minor pyrite	
282.90	284.45		VSST	KSP	HEM			D	2							P	m					SP	w													W	4R-3O-4A	Pinkish-orange and medium grey fine grained potassically altered quartz weak lithic rich volcaniclastic sandstone, pink spotty K-feldspar development replacing up to 30% of clasts/crystals, up to 5% disseminated pyrite and semi-pervasive haematite	
284.45	289.15		VSST	KSP	HEM	Chl						Vn	0.5			P	w/m	Vn	w			SP	w/m				w									W	2Br-4Br	Light tan, orange and dark brown coarse quartz crystal rich volcaniclastic sandstone, potassic alteration overprinted by darker haematite stain, haematite veins 2/m, quartz-chlorite veins 5/m, pseudo breccia at start of interval with probable fine fluidised sediments	
289.15	290.00		VSST	KSP	HEM											P	m					SP	w													W	4R-3O-4A	Pinkish-orange and medium grey fine grained potassically altered quartz weak lithic rich volcaniclastic sandstone, pink spotty K-feldspar development replacing up to 30% of clasts/crystals and semi-pervasive haematite	
290.00	294.30		VSST	KSP	HEM	Chl						Vn	1			P	m	Vn	w			SP	w				w									W	2Br-3Br	Light tan, orange and brown coarse quartz crystal rich volcaniclastic sandstone, potassic alteration overprinted by darker haematite stain, haematite veins 3/m, quartz-chlorite veins 3/m, weak hint of chl and ser replacing crystal phases, fine interbed at 290.2-290.35/fluidised sediment injection	
294.30	294.60		VSST	Ser	HEM	KSP						Vn	0.5			Sp	w			P	w	SP	w													W	2Br-1Gr-R	Tan and light olive green fine grained quartz weak lithic rich volcaniclastic sandstone, weak pink spotty K-feldspar development, pervasive weak sericitisation of matrix, semi-pervasive haematite (w)	
294.60	302.60		VSST	KSP	HEM	Ser		Vn	0.3	Vn	0.05	Vn	0.5			P	m			Sv	w	SP	w				vw									W	3O-2Gr-3R-4Br	Pinkish-brown-orange and dark brown-red and olive green coarse quartz rich volcaniclastic sandstone, semi pervasive haematite alteration and veins with sericitic alteration haloes, pyrite and lesser chalcopyrite as vein accessories, one chl-qtz vein/m	
302.60	303.00		VSST	Chl	DSX			D	7	Vn	0.1											P	s														W	4Gr	Dark green chlorite-pyrite altered volcaniclastic sandstone, 7% disseminated pyrite and trace chalcopyrite in veins/clots, hint of early potassic alteration
303.00	312.30		VSST	KSP	HEM	Chl		D	0.1							P	w/m	Rp	vw	Rp	vw	SP	w				vw									W	3O-4Br-4Gr	Dark brown and medium orange, potassically altered coarse quartz rich volcaniclastic sandstone with weak replacement of crystal phases of by chlorite and sericite near vein selvages, haematite alteration as selvages to veins/haloes with semi-pervasive appearance, spotty pink K-feldspar development, one chl-qtz vein/m, trace pyrite. A few minor 3-15cm fine interbeds of lithic rich volc sst	
312.30	315.40		VSST	Sil	KSP			Vn	0.1			Vn	1			SP	w					Vn	w														W	2A	Pervasively silicified light grey coarse quartz rich volcaniclastic sandstone with hairin haematite-py veins and light mineral phase (tabular/wispy) replaced by white-cream mineral (2-3%, possibly biotite)
315.40	316.40		VSST	Chl	KSP			Vn	2	Vn	0.5	Vn	0.5			P	w	P	m										Ga	Vn	5				S	4Gr	Dark green broken and veined faulted? Volcaniclastic sandstone with moderate chlorite alteration and weakly potassically rubble, 3cm galena-pyrite-cpy-qtz vein		
316.40	322.30		VSST	KSP	Ser	Chl										P	m	Rp	vw	Rp	w						vw										W	3Br/O-4Br/Gr	Orange and dark brown-green potassically and weakly chloritic coarse quartz rich volcaniclastic sandstone with sericite replacing crystal phase (plagioclase) adjacent to veins giving a spotty appearance, one qtz-chl vein/m
322.30	322.70		VSST	Sil				Vn	5			Vn	1																								W	2A	Light grey strongly silicified coarse quartz crystal rich volcaniclastic sandstone with pyrite veining to 5% and lesser haematite in selvages
322.70	335.25		VSST	KSP	Ser	Chl										SP	m	Rp	w	Rp	w																W	4Br-4Gr-3Br	Medium orange-dark brown patchy potassic altered quartz rich lithic poor coarse volcaniclastic sandstone with spotty chlorite and sericite altered crystal phases
335.25	336.00		VSST	KSP	Mag			D	3			D	2	D	2	P	m					Vn	w														W	4A-3Br/O	Orange-dark grey fine lithic rich quartz weak volcaniclastic sandstone with moderate potassic alteration, grey magnetite rich alteration, disseminated and vein magnetite, 2% disseminated pyrite, possibly a magnetite halo from vein down hole, possibly fining up hole.
336.00	337.40		VSST	KSP	Chl			Vn	4	Vn	0.05	Vn	2			P	m	Rp	w			Vn	w					vw									W	3O-3Br>4A	Orange-brown potassically altered coarse quartz rich volcaniclastic sandstone with spotty k-feldspar and chlorite replacement of crystal phases other than quartz. Interval begins with two sulphidic veins, pyrite with haematite-pyrite selvage, hard black alteration adjacent may be tourmaline also possible sericite alteration (soft olive green), quartz chlorite-cpy veins in opposite orientation to sulphidic veins.

Magnetic Susceptibility Log (all figures x 10-3 SI units) - Pluton Resources

Hole_ID	From	To	Avg Mag	Peak Mag	Hole_ID	From	To	Avg Mag	Peak Mag
DR1	0.00	2.00	-0.04	0.42	DR1	120.00	122.00	0.27	0.82
DR1	2.00	4.00	-0.07	0.07	DR1	122.00	124.00	0.19	0.57
DR1	4.00	6.00	0.23	1.51	DR1	124.00	126.00	0.46	1.28
DR1	6.00	8.00	-0.04	0.44	DR1	126.00	128.00	0.24	0.70
DR1	8.00	10.00	0.10	0.83	DR1	128.00	130.00	0.28	0.64
DR1	10.00	12.00	0.02	0.25	DR1	130.00	132.00	0.49	1.52
DR1	12.00	14.00	0.11	0.22	DR1	132.00	134.00	0.51	1.11
DR1	14.00	16.00	0.00	0.24	DR1	134.00	136.00	0.43	0.90
DR1	16.00	18.00	-0.03	0.09	DR1	136.00	138.00	0.40	0.80
DR1	18.00	20.00	-0.13	0.40	DR1	138.00	140.00	0.42	0.96
DR1	20.00	22.00	0.28	2.45	DR1	140.00	142.00	0.44	1.31
DR1	22.00	24.00	0.10	0.68	DR1	142.00	144.00	0.32	1.18
DR1	24.00	26.00	1.03	2.53	DR1	144.00	146.00	0.72	2.67
DR1	26.00	28.00	0.16	0.43	DR1	146.00	148.00	0.26	0.65
DR1	28.00	30.00	0.10	1.15	DR1	148.00	150.00	0.12	0.28
DR1	30.00	32.00	0.23	0.96	DR1	150.00	152.00	0.15	0.79
DR1	32.00	34.00	0.11	0.22	DR1	152.00	154.00	0.14	0.60
DR1	34.00	36.00	0.34	0.70	DR1	154.00	156.00	0.29	1.34
DR1	36.00	38.00	0.58	1.19	DR1	156.00	158.00	0.23	0.56
DR1	38.00	40.00	0.64	1.62	DR1	158.00	160.00	0.11	0.31
DR1	40.00	42.00	0.21	0.61	DR1	160.00	162.00	0.25	0.95
DR1	42.00	44.00	0.21	0.58	DR1	162.00	164.00	0.16	0.76
DR1	44.00	46.00	0.73	1.88	DR1	164.00	166.00	0.11	0.53
DR1	46.00	48.00	0.24	1.10	DR1	166.00	168.00	0.13	0.74
DR1	48.00	50.00	0.34	0.92	DR1	168.00	170.00	0.34	1.02
DR1	50.00	52.00	0.25	0.58	DR1	170.00	172.00	1.44	7.65
DR1	52.00	54.00	0.16	0.37	DR1	172.00	174.00	1.16	3.04
DR1	54.00	56.00	0.38	0.93	DR1	174.00	176.00	0.35	0.74
DR1	56.00	58.00	0.21	0.38	DR1	176.00	178.00	0.43	1.11
DR1	58.00	60.00	0.28	0.58	DR1	178.00	180.00	0.37	0.99
DR1	60.00	62.00	0.39	0.61	DR1	180.00	182.00	0.38	1.22
DR1	62.00	64.00	0.43	0.98	DR1	182.00	184.00	0.36	1.25
DR1	64.00	66.00	0.22	0.57	DR1	184.00	186.00	0.34	1.19
DR1	66.00	68.00	0.40	0.97	DR1	186.00	188.00	0.70	1.43
DR1	68.00	70.00	0.13	0.91	DR1	188.00	190.00	0.42	1.33
DR1	70.00	72.00	0.39	0.95	DR1	190.00	192.00	0.72	2.00
DR1	72.00	74.00	0.27	0.54	DR1	192.00	194.00	0.43	1.27
DR1	74.00	76.00	0.51	1.11	DR1	194.00	196.00	0.76	1.73
DR1	76.00	78.00	0.30	0.58	DR1	196.00	198.00	1.19	2.15
DR1	78.00	80.00	0.23	0.60	DR1	198.00	200.00	0.59	1.50
DR1	80.00	82.00	0.32	0.74	DR1	200.00	202.00	1.28	3.28
DR1	82.00	84.00	0.17	0.36	DR1	202.00	204.00	1.02	4.61
DR1	84.00	86.00	0.23	0.65	DR1	204.00	206.00	0.39	2.05
DR1	86.00	88.00	0.16	0.40	DR1	206.00	208.00	1.38	6.54
DR1	88.00	90.00	0.30	0.94	DR1	208.00	210.00	8.74	16.00
DR1	90.00	92.00	0.16	0.46	DR1	210.00	212.00	3.67	7.74
DR1	92.00	94.00	0.32	0.77	DR1	212.00	214.00	4.70	11.20
DR1	94.00	96.00	0.31	1.01	DR1	214.00	216.00	7.76	58.50
DR1	96.00	98.00	0.26	0.62	DR1	216.00	218.00	17.20	30.40
DR1	98.00	100.00	0.26	0.77	DR1	218.00	220.00	14.20	18.30
DR1	100.00	102.00	0.33	0.62	DR1	220.00	222.00	23.90	44.20
DR1	102.00	104.00	0.49	0.79	DR1	222.00	224.00	17.10	28.30
DR1	104.00	106.00	0.23	0.85	DR1	224.00	226.00	17.20	29.50
DR1	106.00	108.00	0.69	1.59	DR1	226.00	228.00	9.40	22.30
DR1	108.00	110.00	0.25	1.26	DR1	228.00	230.00	5.36	8.88
DR1	110.00	112.00	0.13	0.22	DR1	230.00	232.00	4.22	13.30
DR1	112.00	114.00	0.01	0.33	DR1	232.00	234.00	0.05	0.76
DR1	114.00	116.00	0.11	0.46	DR1	234.00	236.00	-0.02	0.16
DR1	116.00	118.00	0.21	0.61	DR1	236.00	238.00	0.46	1.20
DR1	118.00	120.00	0.07	0.58	DR1	238.00	240.00	0.05	0.22

Significant intersection calculations

Project	Prospect	Hole_ID	From	To	Spl_Id	Au_ppm	Ag_ppm	Cu_ppm
Tas Porphyry	Powerful	DR1	232	233	129833	0.013	0.62	3420
Tas Porphyry	Powerful	DR1	233	234	129834	0.008	0.45	1795
Tas Porphyry	Powerful	DR1	234	235	129835	0.001	0.22	511
Tas Porphyry	Powerful	DR1	235	236	129836	0.009	0.33	1025
Tas Porphyry	Powerful	DR1	236	237	129837	0.034	0.94	606
Tas Porphyry	Powerful	DR1	237	238	129838	0.195	2.03	424
Tas Porphyry	Powerful	DR1	232	233	129833	0.013	0.62	3420
Tas Porphyry	Powerful	DR1	233	234	129834	0.008	0.45	1795
Tas Porphyry	Powerful	DR1	234	235	129835	0.001	0.22	511
Tas Porphyry	Powerful	DR1	235	236	129836	0.009	0.33	1025
Tas Porphyry	Powerful	DR1	236	237	129837	0.034	0.94	606
Tas Porphyry	Powerful	DR1	237	238	129838	0.195	2.03	424
Tas Porphyry	Powerful	DR1	238	239	129839	0.018	0.46	147.5
Tas Porphyry	Powerful	DR1	239	240	129840	0.0005	0.44	515
Tas Porphyry	Powerful	DR1	240	241	129841	0.001	0.38	175
Tas Porphyry	Powerful	DR1	241	242	129842	0.007	0.55	1125
					SUM	0.034156	0.688125	1095.281
from 232m					10m @	0.03g/t	0.64g/t	0.11%

Project	Tas Porphyry	Prospect	Five Mile Rise	Hole_ID	DR1
Pluton Resources - Sampling Notes					
Sample ID	Composite No.	From (m)	To (m)	Likely elements to assay	
129227		26	27	Au, Base Metals. Whole Rock and REE on 5m Comps	
129228		27	28	Au, Base Metals. Whole Rock and REE on 5m Comps	
129229		28	29	Au, Base Metals. Whole Rock and REE on 5m Comps	
129230		29	30	Au, Base Metals. Whole Rock and REE on 5m Comps	
129231	129231C	30	31	Au, Base Metals. Whole Rock and REE on 5m Comps	
129232		31	32	Au, Base Metals. Whole Rock and REE on 5m Comps	
129233		32	33	Au, Base Metals. Whole Rock and REE on 5m Comps	
129234		33	34	Au, Base Metals. Whole Rock and REE on 5m Comps	
129235		34	35	Au, Base Metals. Whole Rock and REE on 5m Comps	
129236	129236C	35	36	Au, Base Metals. Whole Rock and REE on 5m Comps	
129237		36	37	Au, Base Metals. Whole Rock and REE on 5m Comps	
129238		37	38	Au, Base Metals. Whole Rock and REE on 5m Comps	
129239		38	39	Au, Base Metals. Whole Rock and REE on 5m Comps	
129240		39	40	Au, Base Metals. Whole Rock and REE on 5m Comps	
129241	129241C	40	41	Au, Base Metals. Whole Rock and REE on 5m Comps	
129242		41	42	Au, Base Metals. Whole Rock and REE on 5m Comps	
129243		42	43	Au, Base Metals. Whole Rock and REE on 5m Comps	
129244		43	44	Au, Base Metals. Whole Rock and REE on 5m Comps	
129245		44	45	Au, Base Metals. Whole Rock and REE on 5m Comps	
129246	129246C	45	46	Au, Base Metals. Whole Rock and REE on 5m Comps	
129247		46	47	Au, Base Metals. Whole Rock and REE on 5m Comps	
129248		47	48	Au, Base Metals. Whole Rock and REE on 5m Comps	
129249		48	49	Au, Base Metals. Whole Rock and REE on 5m Comps	
129250		49	50	Au, Base Metals. Whole Rock and REE on 5m Comps	
129251	129251C	50	51	Au, Base Metals. Whole Rock and REE on 5m Comps	
129252		51	52	Au, Base Metals. Whole Rock and REE on 5m Comps	
129253		52	53	Au, Base Metals. Whole Rock and REE on 5m Comps	
129254		53	54	Au, Base Metals. Whole Rock and REE on 5m Comps	
129255		54	55	Au, Base Metals. Whole Rock and REE on 5m Comps	
129256	129256C	55	56	Au, Base Metals. Whole Rock and REE on 5m Comps	
129257		56	57	Au, Base Metals. Whole Rock and REE on 5m Comps	
129258		57	58	Au, Base Metals. Whole Rock and REE on 5m Comps	
129259		58	59	Au, Base Metals. Whole Rock and REE on 5m Comps	
129260		59	60	Au, Base Metals. Whole Rock and REE on 5m Comps	
129261	129261C	60	61	Au, Base Metals. Whole Rock and REE on 5m Comps	
129262		61	62	Au, Base Metals. Whole Rock and REE on 5m Comps	
129263		62	63	Au, Base Metals. Whole Rock and REE on 5m Comps	
129264		63	64	Au, Base Metals. Whole Rock and REE on 5m Comps	
129265		64	65	Au, Base Metals. Whole Rock and REE on 5m Comps	
129266	129266C	65	66	Au, Base Metals. Whole Rock and REE on 5m Comps	
129267		66	67	Au, Base Metals. Whole Rock and REE on 5m Comps	
129268		67	68	Au, Base Metals. Whole Rock and REE on 5m Comps	
129269		68	69	Au, Base Metals. Whole Rock and REE on 5m Comps	
129270		69	70	Au, Base Metals. Whole Rock and REE on 5m Comps	
129271	129271C	70	71	Au, Base Metals. Whole Rock and REE on 5m Comps	
129272		71	72	Au, Base Metals. Whole Rock and REE on 5m Comps	
129273		72	73	Au, Base Metals. Whole Rock and REE on 5m Comps	
129274		73	74	Au, Base Metals. Whole Rock and REE on 5m Comps	
129275		74	75	Au, Base Metals. Whole Rock and REE on 5m Comps	
129276	129276C	75	76	Au, Base Metals. Whole Rock and REE on 5m Comps	
129277		76	77	Au, Base Metals. Whole Rock and REE on 5m Comps	
129278		77	78	Au, Base Metals. Whole Rock and REE on 5m Comps	
129279		78	79	Au, Base Metals. Whole Rock and REE on 5m Comps	
129280		79	80	Au, Base Metals. Whole Rock and REE on 5m Comps	
129281	129281C	80	81	Au, Base Metals. Whole Rock and REE on 5m Comps	
129282		81	82	Au, Base Metals. Whole Rock and REE on 5m Comps	
129283		82	83	Au, Base Metals. Whole Rock and REE on 5m Comps	
129284		83	84	Au, Base Metals. Whole Rock and REE on 5m Comps	
129285		84	85	Au, Base Metals. Whole Rock and REE on 5m Comps	
129286	129286C	85	86	Au, Base Metals. Whole Rock and REE on 5m Comps	
129287		86	87	Au, Base Metals. Whole Rock and REE on 5m Comps	
129288		87	88	Au, Base Metals. Whole Rock and REE on 5m Comps	
129289		88	89	Au, Base Metals. Whole Rock and REE on 5m Comps	

129757		156	157	Au, Base Metals. Whole Rock and REE on 5m Comps
129758		157	158	Au, Base Metals. Whole Rock and REE on 5m Comps
129759		158	159	Au, Base Metals. Whole Rock and REE on 5m Comps
129760		159	160	Au, Base Metals. Whole Rock and REE on 5m Comps
129761	129761C	160	161	Au, Base Metals. Whole Rock and REE on 5m Comps
129762		161	162	Au, Base Metals. Whole Rock and REE on 5m Comps
129763		162	163	Au, Base Metals. Whole Rock and REE on 5m Comps
129764		163	164	Au, Base Metals. Whole Rock and REE on 5m Comps
129765		164	165	Au, Base Metals. Whole Rock and REE on 5m Comps
129766	129766C	165	166	Au, Base Metals. Whole Rock and REE on 5m Comps
129767		166	167	Au, Base Metals. Whole Rock and REE on 5m Comps
129768		167	168	Au, Base Metals. Whole Rock and REE on 5m Comps
129769		168	169	Au, Base Metals. Whole Rock and REE on 5m Comps
129770		169	170	Au, Base Metals. Whole Rock and REE on 5m Comps
129771	129771C	170	171	Au, Base Metals. Whole Rock and REE on 5m Comps
129772		171	172	Au, Base Metals. Whole Rock and REE on 5m Comps
129773		172	173	Au, Base Metals. Whole Rock and REE on 5m Comps
129774		173	174	Au, Base Metals. Whole Rock and REE on 5m Comps
129775		174	175	Au, Base Metals. Whole Rock and REE on 5m Comps
129776	129776C	175	176	Au, Base Metals. Whole Rock and REE on 5m Comps
129777		176	177	Au, Base Metals. Whole Rock and REE on 5m Comps
129778		177	178	Au, Base Metals. Whole Rock and REE on 5m Comps
129779		178	179	Au, Base Metals. Whole Rock and REE on 5m Comps
129780		179	180	Au, Base Metals. Whole Rock and REE on 5m Comps
129781	129781C	180	181	Au, Base Metals. Whole Rock and REE on 5m Comps
129782		181	182	Au, Base Metals. Whole Rock and REE on 5m Comps
129783		182	183	Au, Base Metals. Whole Rock and REE on 5m Comps
129784		183	184	Au, Base Metals. Whole Rock and REE on 5m Comps
129785		184	185	Au, Base Metals. Whole Rock and REE on 5m Comps
129786	129786C	185	186	Au, Base Metals. Whole Rock and REE on 5m Comps
129787		186	187	Au, Base Metals. Whole Rock and REE on 5m Comps
129788		187	188	Au, Base Metals. Whole Rock and REE on 5m Comps
129789		188	189	Au, Base Metals. Whole Rock and REE on 5m Comps
129790		189	190	Au, Base Metals. Whole Rock and REE on 5m Comps
129791	129791C	190	191	Au, Base Metals. Whole Rock and REE on 5m Comps
129792		191	192	Au, Base Metals. Whole Rock and REE on 5m Comps
129793		192	193	Au, Base Metals. Whole Rock and REE on 5m Comps
129794		193	194	Au, Base Metals. Whole Rock and REE on 5m Comps
129795		194	195	Au, Base Metals. Whole Rock and REE on 5m Comps
129796	129796C	195	196	Au, Base Metals. Whole Rock and REE on 5m Comps
129797		196	197	Au, Base Metals. Whole Rock and REE on 5m Comps
129798		197	198	Au, Base Metals. Whole Rock and REE on 5m Comps
129799		198	199	Au, Base Metals. Whole Rock and REE on 5m Comps
129800		199	200	Au, Base Metals. Whole Rock and REE on 5m Comps
129801	129801C	200	201	Au, Base Metals. Whole Rock and REE on 5m Comps
129802		201	202	Au, Base Metals. Whole Rock and REE on 5m Comps
129803		202	203	Au, Base Metals. Whole Rock and REE on 5m Comps
129804		203	204	Au, Base Metals. Whole Rock and REE on 5m Comps
129805		204	205	Au, Base Metals. Whole Rock and REE on 5m Comps
129806	129806C	205	206	Au, Base Metals. Whole Rock and REE on 5m Comps
129807		206	207	Au, Base Metals. Whole Rock and REE on 5m Comps
129808		207	208	Au, Base Metals. Whole Rock and REE on 5m Comps
129809		208	209	Au, Base Metals. Whole Rock and REE on 5m Comps
129810		209	210	Au, Base Metals. Whole Rock and REE on 5m Comps
129811	129811C	210	211	Au, Base Metals. Whole Rock and REE on 5m Comps

129812		211	212	Au, Base Metals. Whole Rock and REE on 5m Comps
129813		212	213	Au, Base Metals. Whole Rock and REE on 5m Comps
129814		213	214	Au, Base Metals. Whole Rock and REE on 5m Comps
129815		214	215	Au, Base Metals. Whole Rock and REE on 5m Comps
129816	129816C	215	216	Au, Base Metals. Whole Rock and REE on 5m Comps
129817		216	217	Au, Base Metals. Whole Rock and REE on 5m Comps
129818		217	218	Au, Base Metals. Whole Rock and REE on 5m Comps
129819		218	219	Au, Base Metals. Whole Rock and REE on 5m Comps
129820		219	220	Au, Base Metals. Whole Rock and REE on 5m Comps
129821	129821C	220	221	Au, Base Metals. Whole Rock and REE on 5m Comps
129822		221	222	Au, Base Metals. Whole Rock and REE on 5m Comps
129823		222	223	Au, Base Metals. Whole Rock and REE on 5m Comps
129824		223	224	Au, Base Metals. Whole Rock and REE on 5m Comps
129825		224	225	Au, Base Metals. Whole Rock and REE on 5m Comps
129826	129826C	225	226	Au, Base Metals. Whole Rock and REE on 5m Comps
129827		226	227	Au, Base Metals. Whole Rock and REE on 5m Comps
129828		227	228	Au, Base Metals. Whole Rock and REE on 5m Comps
129829		228	229	Au, Base Metals. Whole Rock and REE on 5m Comps
129830		229	230	Au, Base Metals. Whole Rock and REE on 5m Comps
129831	129831C	230	231	Au, Base Metals. Whole Rock and REE on 5m Comps
129832		231	232	Au, Base Metals. Whole Rock and REE on 5m Comps
129833		232	233	Au, Base Metals. Whole Rock and REE on 5m Comps
129834		233	234	Au, Base Metals. Whole Rock and REE on 5m Comps
129835		234	235	Au, Base Metals. Whole Rock and REE on 5m Comps
129836	129836C	235	236	Au, Base Metals. Whole Rock and REE on 5m Comps
129837		236	237	Au, Base Metals. Whole Rock and REE on 5m Comps
129838		237	238	Au, Base Metals. Whole Rock and REE on 5m Comps
129839		238	239	Au, Base Metals. Whole Rock and REE on 5m Comps
129840		239	240	Au, Base Metals. Whole Rock and REE on 5m Comps
129841	129841C	240	241	Au, Base Metals. Whole Rock and REE on 5m Comps
129842		241	242	Au, Base Metals. Whole Rock and REE on 5m Comps
129843		242	243	Au, Base Metals. Whole Rock and REE on 5m Comps
129844		243	244	Au, Base Metals. Whole Rock and REE on 5m Comps
129845		244	245	Au, Base Metals. Whole Rock and REE on 5m Comps
129846	129846	245	246	Au, Base Metals. Whole Rock and REE on 5m Comps
129847		246	247	Au, Base Metals. Whole Rock and REE on 5m Comps
129848		247	248	Au, Base Metals. Whole Rock and REE on 5m Comps
129849		248	249	Au, Base Metals. Whole Rock and REE on 5m Comps
129850		249	250	Au, Base Metals. Whole Rock and REE on 5m Comps
129851	129851C	250	251	Au, Base Metals. Whole Rock and REE on 5m Comps
129852		251	252	Au, Base Metals. Whole Rock and REE on 5m Comps
129853		252	253	Au, Base Metals. Whole Rock and REE on 5m Comps
129854		253	254	Au, Base Metals. Whole Rock and REE on 5m Comps
129855		254	255	Au, Base Metals. Whole Rock and REE on 5m Comps
129856	129856C	255	256	Au, Base Metals. Whole Rock and REE on 5m Comps
129857		256	257	Au, Base Metals. Whole Rock and REE on 5m Comps
129858		257	258	Au, Base Metals. Whole Rock and REE on 5m Comps
129859		258	259	Au, Base Metals. Whole Rock and REE on 5m Comps
129860		259	260	Au, Base Metals. Whole Rock and REE on 5m Comps
129861	129861C	260	261	Au, Base Metals. Whole Rock and REE on 5m Comps
129862		261	262	Au, Base Metals. Whole Rock and REE on 5m Comps
129863		262	263	Au, Base Metals. Whole Rock and REE on 5m Comps
129864		263	264	Au, Base Metals. Whole Rock and REE on 5m Comps
129865		264	265	Au, Base Metals. Whole Rock and REE on 5m Comps
129866	129866C	265	266	Au, Base Metals. Whole Rock and REE on 5m Comps
129867		266	267	Au, Base Metals. Whole Rock and REE on 5m Comps
129868		267	268	Au, Base Metals. Whole Rock and REE on 5m Comps
129869		268	269	Au, Base Metals. Whole Rock and REE on 5m Comps
129870		269	270	Au, Base Metals. Whole Rock and REE on 5m Comps
129871	129871C	270	271	Au, Base Metals. Whole Rock and REE on 5m Comps
129872		271	272	Au, Base Metals. Whole Rock and REE on 5m Comps
129873		272	273	Au, Base Metals. Whole Rock and REE on 5m Comps
129874		273	274	Au, Base Metals. Whole Rock and REE on 5m Comps
129875		274	275	Au, Base Metals. Whole Rock and REE on 5m Comps
129876	129876C	275	276	Au, Base Metals. Whole Rock and REE on 5m Comps

129877		276	277	Au, Base Metals. Whole Rock and REE on 5m Comps
129878		277	278	Au, Base Metals. Whole Rock and REE on 5m Comps
129879		278	279	Au, Base Metals. Whole Rock and REE on 5m Comps
129880		279	280	Au, Base Metals. Whole Rock and REE on 5m Comps
129881	129881C	280	281	Au, Base Metals. Whole Rock and REE on 5m Comps
129882		281	282	Au, Base Metals. Whole Rock and REE on 5m Comps
129883		282	283	Au, Base Metals. Whole Rock and REE on 5m Comps
129884		283	284	Au, Base Metals. Whole Rock and REE on 5m Comps
129885		284	285	Au, Base Metals. Whole Rock and REE on 5m Comps
129886	129886C	285	286	Au, Base Metals. Whole Rock and REE on 5m Comps
129887		286	287	Au, Base Metals. Whole Rock and REE on 5m Comps
129888		287	288	Au, Base Metals. Whole Rock and REE on 5m Comps
129889		288	289	Au, Base Metals. Whole Rock and REE on 5m Comps
129890		289	290	Au, Base Metals. Whole Rock and REE on 5m Comps
129891	129891C	290	291	Au, Base Metals. Whole Rock and REE on 5m Comps
129892		291	292	Au, Base Metals. Whole Rock and REE on 5m Comps
129893		292	293	Au, Base Metals. Whole Rock and REE on 5m Comps
129894		293	294	Au, Base Metals. Whole Rock and REE on 5m Comps
129895		294	295	Au, Base Metals. Whole Rock and REE on 5m Comps
129896	129896C	295	296	Au, Base Metals. Whole Rock and REE on 5m Comps
129897		296	297	Au, Base Metals. Whole Rock and REE on 5m Comps
129898		297	298	Au, Base Metals. Whole Rock and REE on 5m Comps
129899		298	299	Au, Base Metals. Whole Rock and REE on 5m Comps
129900		299	300	Au, Base Metals. Whole Rock and REE on 5m Comps
152001	152001C	300	301	Au, Base Metals. Whole Rock and REE on 5m Comps
152002		301	302	Au, Base Metals. Whole Rock and REE on 5m Comps
152003		302	303	Au, Base Metals. Whole Rock and REE on 5m Comps
152004		303	304	Au, Base Metals. Whole Rock and REE on 5m Comps
152005		304	305	Au, Base Metals. Whole Rock and REE on 5m Comps
152006	152006C	305	306	Au, Base Metals. Whole Rock and REE on 5m Comps
152007		306	307	Au, Base Metals. Whole Rock and REE on 5m Comps
152008		307	308	Au, Base Metals. Whole Rock and REE on 5m Comps
152009		308	309	Au, Base Metals. Whole Rock and REE on 5m Comps
152010		309	310	Au, Base Metals. Whole Rock and REE on 5m Comps
152011	152011C	310	311	Au, Base Metals. Whole Rock and REE on 5m Comps
152012		311	312	Au, Base Metals. Whole Rock and REE on 5m Comps
152013		312	313	Au, Base Metals. Whole Rock and REE on 5m Comps
152014		313	314	Au, Base Metals. Whole Rock and REE on 5m Comps
152015		314	315	Au, Base Metals. Whole Rock and REE on 5m Comps
152016	152016C	315	316	Au, Base Metals. Whole Rock and REE on 5m Comps
152017		316	317	Au, Base Metals. Whole Rock and REE on 5m Comps
152018		317	318	Au, Base Metals. Whole Rock and REE on 5m Comps
152019		318	319	Au, Base Metals. Whole Rock and REE on 5m Comps
152020		319	320	Au, Base Metals. Whole Rock and REE on 5m Comps
152021	152021C	320	321	Au, Base Metals. Whole Rock and REE on 5m Comps
152022		321	322	Au, Base Metals. Whole Rock and REE on 5m Comps
152023		322	323	Au, Base Metals. Whole Rock and REE on 5m Comps
152024		323	324	Au, Base Metals. Whole Rock and REE on 5m Comps
152025		324	325	Au, Base Metals. Whole Rock and REE on 5m Comps
152026	152026C	325	326	Au, Base Metals. Whole Rock and REE on 5m Comps
152027		326	327	Au, Base Metals. Whole Rock and REE on 5m Comps
152028		327	328	Au, Base Metals. Whole Rock and REE on 5m Comps
152029		328	329	Au, Base Metals. Whole Rock and REE on 5m Comps
152030		329	330	Au, Base Metals. Whole Rock and REE on 5m Comps
152031	152031C	330	331	Au, Base Metals. Whole Rock and REE on 5m Comps
152032		331	332	Au, Base Metals. Whole Rock and REE on 5m Comps
152033		332	333	Au, Base Metals. Whole Rock and REE on 5m Comps
152034		333	334	Au, Base Metals. Whole Rock and REE on 5m Comps
152035		334	335	Au, Base Metals. Whole Rock and REE on 5m Comps
152036	152036C	335	336	Au, Base Metals. Whole Rock and REE on 5m Comps
152037		336	337	Au, Base Metals. Whole Rock and REE on 5m Comps
152038	152038C	337	337.4	Au, Base Metals. Whole Rock and REE on 5m Comps

Summary Drill Log and Header

Pluton Resources Ltd.

PROJECT:	Tas Porphyry	HOLE NO:	DR2	DRILL TYPE:	Diamond
PROSPECT:	Powerful	DATE COMMENCED:	17/05/2007	DRILLER:	Almac Drilling
EL:	14/2006	DATE COMPLETED:	12/06/2007	LOGGED BY:	John McD
EASTING	427800 +50m	TOTAL DEPTH (m):	428	DATE:	7/09/2007
NORTHING	5397750 AGD66	AZIMUTH:	294	OXIDATION BOPO:	9.0
COLLAR RL:	510 25k map	DIP:	-60	BOCO:	3.6

Drilling details		
Core Size	From	To
PQ		
HQ	0.00	41.00
NQ	41.00	428.00
BQ		

Comments
Hole designed to test weak K-band radiometric anomalism bordering a pronounced aeromagnetic bulls-eye high, south of Lorinna. This bulls-eye high had been tested by an RC hole drilled by Shell in the early 1980's which passed through the Tertiary Basalt into Precambrian Schist, a satisfactory explanation of the magnetic anomaly was not determined and so an angled deeper hole was chosen. Main foliation in Precambrian is occasionally crenulated

Significant Intervals:			
Hole_ID	From	To	Interval
DR2	90.00	91.00	1m @ 1.96 g/t Au

Summary Log			
From	To	Graphic	Summary Description (Lith, Altn, Mineralisation)
0.00	57.95	Tb	Tertiary Basalt - vesicular, massive and occasional calcite/zeolite veining
57.95	70.80	Ts	Poorly consolidated friable dark brown Tertiary mudstone
70.80	91.30	pC	Brecciated Precambrian strongly foliated schist
91.30	98.00	pC	Haematite-pyrite rich brecciated Precambrian schist, including massive specular haematite veins with 10-15% py clots and chloritic selvages
98.00	244.30	pC	Strongly broken, weakly brecciated, strongly foliated Precambrian schist with pyrite as dissems and in foliation, some haematitic zones
244.30	259.70	pC/Cg	Precambrian metamorphics with small dykes of potassically altered granite
259.70	266.50	Cg	Variably potassic-chlorite-sericite-silica altered quartz-plagioclase-hornblende>biotite and k-feldspar granite
266.50	272.75	Cg	Haematite and quartz veined granite
272.75	428.00	Cg	Variably potassic-chlorite-sericite-silica altered quartz-plagioclase-hornblende>biotite and k-feldspar granite

Down Hole Surveys - Pluton Resources

Hole_ID	Depth	Azimuth	Dip	ID	Mag_azm	Type	Verified	Comment	Date
DR2	0	294	-60		280	2	N	Check Az	17/05/2007
DR2	50	294	-60		280	1	Y		18/05/2007
DR2	100	284	-60		270	1	Y		21/05/2007
DR2	150	311	-60		297	1	Y		
DR2	200	289	-60		275	1	Y		
DR2	250	289	-60		275	1	Y		28/05/2007
DR2	300	285	-59.75		271	1	Y		
DR2	350	294	-59.5		280	1	Y		31/05/2007
DR2	400	302.5	-58.75		288.5	1	Y		

Pluton Resources Detailed Drill Log																												
Hole Number	DR2	Sheet No	1																								Full description: including colour, main alteration type and	
INTERVAL		ROCK CODES		Alteration summary				Pyrite	Chalco	Haem	Magnet	Potassic K feldspar	Chloritic	Sericitic	Haematitic	T'maine	QVN	Other minerals / texture / colour					Broken (WMS)		Colour	Full description: including colour, main alteration type and strength, component minerals (pref in order of abundance), rock type, texture, alteration and mineralisation details eg: pale green phyllic (moderate) quartz-feldspar phyric dacite porphyry, phenocrysts to 4mm, sericite (m) altered phenocrysts, silica (w) altered groundmass, pyrite(3-5%) as disseminations and minor veinlets		
FROM (m)	TO (m)	Strat Code	Rock type	Primary Altn	2nd Altn	3rd Altn	Weathering	Amount % S/v%	Amount % S/v%	Amount % S/v%	Amount % S/v%	Amount (WMS) S/v%	Mineral 1 S/v%	Amount %	Mineral 2 S/v%	Amount %	Broken (WMS)	Colour										
0.00	57.95	Tb	LMB				T																w	4A	Tertiary Basalt - vesicular, massive and occasional calcite/zeolite veining			
57.95	70.80	Ts	SMDST																				w	4Br	Poorly consolidated friable dark chocolate brown Tertiary mudstone, possibly lake sediments			
70.80	86.50	pC	MUSED				D	1						P	w								s	2A	Strongly foliated medium and light grey striped fine grained "schist"			
86.50	88.70	pC	OHBX				D	0.1															s	3A	Breccia of precambrian "schist" consisting of dark angular clasts to 4cm in a fine soft light grey matrix, possibly sericite altered			
88.70	91.30	pC	MUSED				Vn	1		Vn	0.5												s	4A>2A	Dark>light grey schist with one pyrite-haematite-chlorite vein with pyrite clots			
91.30	98.00	pC	MUSED	HEM			Sp	10		Vn	30				Vn	s							w	4R-3Gr	Massive haematite veins with subordinate clots of pyrite in medium green brecciated Precambrian schist, including massive specular haematite veins to 60cm and locally 60% haematite and 30% pyrite and chloritic selvages			
98.00	106.60	pC	OHBX	Chl	KSP		D	3		Vn	3		Sp	w/m	P	m		Vn	w		w		m	4Gr	Dark green pervasive chlorite altered brecciated "schist" with weak patches and clots of potassic alteration, sparsely quartz>haematite>pyrite veined possibly with some intrusive material?			
106.60	137.00	pC	MUSED	Ser	Chl		Vn	2					SP	w/m	Sp	w							m/s	4A	Dark grey foliated fine Precambrian "schist" with occasional haematite veins nearer last interval, pyrite veins in foliation, weak zones of sericite alteration and chloritisation of brecciated portions of interval			
137.00	149.00	pC	MUSED	KSP			Vn	1					P	w/m									m	1Br-3A	Light orange-brown and darker grey strongly foliated "schist" with pervasive potassic (light brown) alteration, strongest in breccia zones			
149.00	157.70	pC	MUSED		KSP		Vn	1					SP	vw									m/s	4A	Dark grey moderately-strongly foliated fine Precambrian "schist" with 1% pyrite as veins in the foliation. Small 5cm dykes of orthoclase and quartz rich granite occur at 153.6 and 155.4 with associated weak potassic haloes			
157.70	159.90	pC	MUSED	Ser	KSP		Vn	0.5															s	2Gr/A-4A	Light green and dark grey striped strongly foliated fine Precambrian "schist", possibly a mudstone protolith, weak chlorite veinlets sub-parallel to long core axis			
159.90	175.50	pC	MUSED				Vn	1		Sp	0.1												m/s	2Br-4A	Tan-dark grey fine grained foliated Precambrian "schist", vein pyrite 1% in foliation with occasional clots, probable mudstone precursor			
175.50	182.50	pC	MUSED	HEM			Vn	3		Vn	3												w	4A>4O	Haematite-pyrite veined dark grey>dark orange foliated fine grained Precambrian "schist"			
182.50	195.85	pC	MUSED				Vn	0.5															m	4A-5Br	Dark fine grained Precambrian "schist" with fine quartz <1mm, with occasional 10cm hydrothermal breccia zones typically with a rubbly broken appearance, weak late potassic alteration approaching dyke down hole			
195.85	196.05	Cg	IFGRAN	Chl	Ser	KSP																	w	2Gr-2P	Light green and pink granite, consisting of 10-15% quartz, 40-45% zoned green plagioclase, chloritised mafics probably hornblende-biotite ~20% and ~25% interstitial pink K-feldspar (orthoclase) which may be an alteration product			
196.05	210.00	pC	MUSED	Ser	HEM		Sp	0.2		Vn	0.5												w/m	4A-2Gr	Dark grey and pale green foliated spotted Precambrian "schist" and minor breccia zones, potassic alteration approaching up hole contact with dyke and sericite and increasing haematite approaching dyke on down hole contact, trace cpy at 207m			
210.00	210.30	Cg	IFGRAN	KSP	Chl																		w	3O/P>4A	Banded fine grained aplite and coarse granite, quartz and K-feldspar rich, hard crystalline brown mineral in qtz vein with tan streak, possibly sphalerite or cassiterite			
210.30	216.00	pC	MUSED	HEM						Vn	5										Cl	Vn	0.2	w	3Gr-4A	Dark grey to medium green-grey fine weakly spotted and foliated precambrian "schist", haematite veined (m) and rare calcite veinlets		

Pluton Resources Detailed Drill Log																										
Hole Number		DR2	Sheet No	Mineralisation / Alteration and additional descriptors																					Full description: including colour, main alteration type and	
INTERVAL		ROCK CODES		Alteration summary				Pyrite	Chalco	Haem	Magnet	Potassic K feldspar	Chloritic	Sericitic	Haematitic	T'maline	QVN	Other minerals / texture / colour						Broken (WMS)	Colour	
FROM (m)	TO (m)	Strat Code	Rock type	Primary Altn	2nd Altn	3rd Altn	Weathering	Amount % S/ve	Amount (WMS) S/ve	Mineral 1 S/ve	Amount %	Mineral 2 S/ve	S/ve	Amount %	Broken (WMS)	Colour										
216.00	226.85	pC	MUSED					Vn	1.5				SP	vw									w/m	4A-5A	Dark grey-green fine-very fine grained foliated Precambrian schist with sparse pyrite clots as veins in foliation, occasionally spotted with brown mineral with a light brown streak (sphalerite?), weak semi-pervasive potassic alteration with dykes of K-feldspar rich granite at 220.4 (5cm) and 220.6(3cm)	
226.85	227.70	pC	OHBX					D	2	Sp	0.1	Sp	0.5										m	3Gr-4A	Brecciated Precambrian pale grey-green schist clasts in a dark grey-black and olive green matrix, angular clasts typically 1-4cm but up to 12cm, very weak patchy haematite alteration in matrix, minor py 1-2%, faulted down hole contact with gouge	
227.70	236.30	pC	MUSED	HEM				D	0.3	Sp	0.05												m/s	3A-4A	Medium to dark grey strongly foliated fine grained Precambrian "schist", haematite increasing approaching dyke down hole with up to 0.5% cpy in this zone	
236.30	236.60	Cg	IFGRAN	KSP																			w	P-2A	Pink- light green granite consisting of quartz-plagioclase-orthoclase (alteration?) and sericitised dyke margins and possible sphalerite clots on one margin	
236.60	242.80	pC	MUSED					Vn	0.5	Sp	0.01												w/m	4A-4Gr	Dark grey-green foliated and spotted (hornfels spotting) Precambrian "schist", potassic alteration extends 30cm into this interval away from up hole contact with dyke, vein and disseminated pyrite in foliation 1%	
242.80	243.55	Cg	IFPEG																				w	P-2Gr	Pink coarse grained granite/pegmatite intruded parallel to main foliation in Precambrian "schist", K-feldspar-quartz and 30% light green-yellow-tan silicate (possibly plagioclase), multiple quartz-chlorite-pyrite veinlets at low angle to LCA, <1% chlorite after biotite?, maximum dip of ~30 degrees	
243.55	244.60	pC	MUSED					Vn	0.2	Vn	0.01												m	3A-4A	Medium to dark grey spotted/foliated Precambrian "schist" with very fine sub 1mm white fleck, trace pyrite in foliation>>cpy	
244.60	244.95	Cg	IFPEG																				w	P	Pink coarse grained pegmatite, K-feldspar to 2cm>quartz> interstitial olive green and dark green minerals, orthoclase has granophyric looking wavy intergrowths?	
244.95	248.00	pC	MUSED	Ser	KSP			Vn	0.2				SP	vw			P	w/m			Cl	Vn	0.2	m/s	3A-1Gr	Med grey-pale green foliated and probably hornfels spotted Precambrian "schist" with pyrite in foliation and sericite alteration approaching the down hole contact
248.00	248.50	Cg	IFGRAN	Ser	KSP	Chl							P	w	Vn	w	P	m/s					m	P-2A	Light green and pink granite, qtz-ck-feldspar with strong pervasive sericite alteration>potassic alteration (or primary orthoclase) and minor chlorite veining	
248.50	253.50	pC	MUSED	KSP	Ser			Vn	1				SP	w			SP	w					m	4A	Dark grey>light orange foliated and spotted (hornfelsed) Precambrian "schist" with semi-pervasive sericite alteration near up hole contact and semi-pervasive potassic alteration near down hole contact, trace spotting of dark brown mineral with light brown streak	
253.50	255.70	Cg	IFGRAN					Vn	0.2	Vn	0.01		P	w			Rp	w					w	3Gr-2P-C	Pink and med-dark green potassic and probably silica altered nearly porphyritic granite, 15% larger quartz to 10mm and ~15% finer quartz, 5-7% chloritised mafics, yellowish-green and cream (replaced) plagioclase 40%	
225.70	259.70	pC	MUSED	KSP	Chl	Ser		Sp	2	Sp	0.2		Bnd	m									m/s	3P-4Gr	Dark green and pink foliated and weakly spotted Precambrian "schist" with strong K-feldspar alteration developed as bands in the foliation, clots of pyrite and rare clots of chalcopyrite in the foliation	
259.70	272.75	Cg	IFGRAN	HEM	Chl	Ser							P	w	Rp	w/m	Rp	w/m					w	3O-2/3Gr	Granite with irregular up hole contact, typically 30% large quartz, 15% ferromagnesian minerals (always replaced), 25 % plagioclase (yellowish green) and 25-30% orange-pink K-feldspar, haematite veined (w-m) with one large quartz-haematite vein (266.8m), pink K-feldspar replacing plagioclase in more orange coloured zones, chlorite and sericite developed strongly around some haematite veins (replacing plagioclase as well as ferromagnesian phases) also haematite replacing K-feldspar in strongest haematite-calcite veined zone	
272.75	300.70	Cg	IFGRAN	KSP	Chl							Vn	0.1	P	m	Rp	w/m	Rp	w				w	3O	Pinkish orange granite, typically 20% large quartz, 15-20% ferromagnesian minerals (replaced by chl), 25 % plagioclase (yellowish green) and 30-35% orange-pink K-feldspar and occasional chlorite and haematite veins (279.5-282), rare magnetite veinlets eg:276m, pervasive mod and strong K-feldspar alteration	
300.70	309.90	Cg	IFGRAN	Sil	KSP	Chl							SP	w	Rp	w/m							w	W-1Gr-N	White to pale green and black flecked granite, variably silica altered, occasionally swamped (white) with only remanent crystal patches, same original composition as previous interval K-Feldspar>Plag>Quartz>ferromags	
309.90	324.70	Cg	IFGRAN	KSP	Chl								P	w/m	Rp	w/m							w	P>3Gr	Pink - green granite, variably K-feldspar altered, chloritic replacement of ferromagnesian phase and zoned plagioclase with lighter rims, tiny trace of moly on one fracture, trace py in other fractures, K-Feldspar35>Plag30%>Quartz20%> chlorite replaces ferromagnesian minerals ~15%	
324.70	326.60	Cg	IFGRAN	Ser													Rp	m/s					w	3Gr	Green pink and white granite, strongly sericite altered (replacing plagioclase), typically quartz 30% = K-Feldspar 30% > Plagioclase 25% > chloritised ferromagnesian phases 15%	

Down Hole Structural Log - Pluton Resources

Hole_ID	At	Alpha angle (deg from LCA)	Beta angle (deg from BDC)	Structure_t ype	Comments	Azimuth (True)	Dip	Struc_ID
DR2	142.6	35	100	fol	Main foliation in pC schist			
DR2	142.7	32	105	fol	Pyrite in main foliation			
DR2	213.6	25	15	Vn	2-4mm haematite vein, cuts foliation			
DR2	213.7	35	290	fol	1mm haematite veinlet in main foliation			
DR2	213.9	35	290	fol	main foliation (1-4mm microlithons)			
DR2	214.4	7	200	Vn	1-3mm haematite veinlet cutting main foliation			
DR2	214.9	38	290	fol	main foliation (haematitic)			
DR2	215.7	34	289	fol	Pyrite in main foliation			
DR2	220.4	55	305	contact	uphole contact of narrow K-feldspar altered granite dyke			
DR2	220.45	60	295	contact	downhole contact of narrow K-feldspar altered granite dyke			
DR2	220.5	25	110	fol	main foliation			
DR2	220.6	65	280	dyke	3cm K-feldspar rich granitic dyke			
DR2	229	40	100	fol	main foliation in schist			
DR2	242.8	30	150	contact	up hole pegmatite contact with schist			
DR2	243.55	50	180	contact	down hole pegmatite contact with schist, flat lying?			
DR2	244.6	35	140	contact	up hole pegmatite (K-Felds and quartz)contact with schist parallel to foliation			
DR2	244.95	35	142	contact	down hole pegmatite contact with schist, low angle dip?			
DR2	245	35	142	fol	main foliation in schist			
DR2	248	35	50	fol	main foliation in sericitised schist			
DR2	250.2	35	160	fol	pyrite and K-Feldspar in main foliation of schist			
DR2	253.5	60	150	Vn	3mm chlorite vein in granite			
DR2	266.8	20	280	Vn	4cm quartz-haematite vein			
DR2	267.8	20	220	Vn	3mm haeamatite vein in granite			
DR2	260.5	60	125	Vn	carbonate-chlorite vein, possibly pre K-feldspar alteration?			
DR2	268.9	20	240	Vn	chlorite-haematite vein 2mm			
DR2	281.7	65	160	Vn	chlorite vein 3mm			
DR2	335.9	10	80	Fr	sericitic fracture			
DR2	350.4	40	230	Vn	3mm calcite vein in granite			
DR2	368	20		dyke	post granitic K-Feldspar dyke			
DR2	382	5		dyke	post granitic K-Feldspar dyke			
DR2	384.1	35	350	fr	Chlorite coated fracture			
DR2	389.2	30	45	fr	clean fracture			
DR2	389.25	35	285	fr	clean fracture			
DR2	389.35	40	340	Vn	3mm carbonate vein			
DR2	389.45	55	90	Vn	2mm chlorite-carbonate vein			
DR2	392.45	5	35	Vn	1mm chlorite vein			
DR2	398.3	30	295	fr	clean fracture			
DR2	399.3	30	295	fr	clean fracture			
DR2	403.35	30	275	Vn	4mm carbonate vein, chlorite selvedge			
DR2	406.3	30	285	Vn	clean fracture			
DR2	407.1	55	170	Vn	2mm chlorite vein, K-feldspar selvedge			
DR2	407.2	55	170	Vn	2mm chlorite vein, K-feldspar selvedge			
DR2	407.3	60	145	Vn	2mm chlorite vein, K-feldspar selvedge			
DR2	407.4	70	145	Vn	2mm chlorite vein, K-feldspar selvedge			
DR2	409.5	45	270	fr	Chlorite coated fracture			
DR2	416.1	32	45	Vn	chlorite veinlet			
DR2	422.75	45	275	fr	clean fracture			
DR2	422.85	50	100	fr	light green fault striae on fracture			
DR2	423	5	350	Vn	chlchlorite veinlet			
DR2	427.8	15	130	contact	fine-med grained phase (aplite?) within granite			

Magnetic Susceptibility Log (all figures x 10-3 SI units) - Pluton Resources

Hole_ID	From	To	Avg Mag	Peak Mag	Hole_ID	From	To	Avg Mag	Peak Mag
DR2	0.00	2.00	missing		DR2	120.00	122.00	0.09	0.13
DR2	2.00	3.60	missing		DR2	122.00	124.00	0.03	0.15
DR2	3.60	6.00	4.51	7.15	DR2	124.00	126.00	0.21	0.30
DR2	6.00	8.00	4.81	6.78	DR2	126.00	128.00	Broken Up	Broken Up
DR2	8.00	10.00	4.48	5.76	DR2	128.00	130.00	0.17	0.47
DR2	10.00	12.00	4.53	5.32	DR2	130.00	132.00	0.24	0.60
DR2	12.00	14.00	3.80	5.32	DR2	132.00	134.00	0.27	0.41
DR2	14.00	16.00	5.24	6.08	DR2	134.00	136.00	0.16	0.34
DR2	16.00	18.00	5.03	6.68	DR2	136.00	138.00	0.20	0.55
DR2	18.00	20.00	4.17	5.34	DR2	138.00	140.00	0.18	0.70
DR2	20.00	22.00	3.44	4.77	DR2	140.00	142.00	0.26	0.48
DR2	22.00	24.00	2.83	3.52	DR2	142.00	144.00	0.16	0.35
DR2	24.00	26.00	2.33	3.10	DR2	144.00	146.00	0.15	0.27
DR2	26.00	28.00	2.02	2.83	DR2	146.00	148.00	0.04	0.17
DR2	28.00	30.00	2.09	2.97	DR2	148.00	150.00	0.03	0.11
DR2	30.00	32.00	4.03	4.48	DR2	150.00	152.00	0.20	0.37
DR2	32.00	34.00	4.70	5.61	DR2	152.00	154.00	0.19	0.32
DR2	34.00	36.00	4.44	5.04	DR2	154.00	156.00	0.18	0.31
DR2	36.00	38.00	4.50	5.59	DR2	156.00	158.00	0.08	0.25
DR2	38.00	40.00	4.71	5.44	DR2	158.00	160.00	0.12	0.37
DR2	40.00	41.00	5.46	6.68	DR2	160.00	162.00	0.15	0.44
DR2	42.00	44.00	4.82	5.61	DR2	162.00	164.00	0.18	0.27
DR2	44.00	46.00	5.90	6.18	DR2	164.00	166.00	0.08	0.21
DR2	46.00	48.00	6.08	7.26	DR2	166.00	168.00	0.26	0.53
DR2	48.00	50.00	6.78	9.11	DR2	168.00	170.00	0.12	0.25
DR2	50.00	52.00	5.59	6.53	DR2	170.00	172.00	0.21	0.35
DR2	52.00	54.00	5.14	6.27	DR2	172.00	174.00	0.23	0.38
DR2	54.00	56.00	9.23	12.50	DR2	174.00	176.00	0.17	0.33
DR2	56.00	58.00	14.70	21.20	DR2	176.00	178.00	0.09	0.14
DR2	58.00	60.00	0.16	0.78	DR2	178.00	180.00	0.19	0.29
DR2	60.00	62.00	0.47	0.86	DR2	180.00	182.00	0.34	0.54
DR2	62.00	64.00	0.52	0.67	DR2	182.00	184.00	0.28	0.43
DR2	64.00	66.00	0.42	0.64	DR2	184.00	186.00	0.33	0.39
DR2	66.00	68.00	0.40	0.65	DR2	186.00	188.00	0.24	0.34
DR2	68.00	70.00	0.47	0.98	DR2	188.00	190.00	0.35	0.37
DR2	70.00	72.00	0.99	1.81	DR2	190.00	192.00	0.25	0.31
DR2	72.00	74.00	Broken up	Broken up	DR2	192.00	194.00	0.30	0.67
DR2	74.00	76.00	Broken up	Broken up	DR2	194.00	196.00	0.18	0.29
DR2	76.00	78.00	0.20	0.20	DR2	196.00	198.00	0.17	0.31
DR2	78.00	80.00	Broken up	Broken up	DR2	198.00	200.00	0.20	0.27
DR2	80.00	82.00	0.13	0.16	DR2	200.00	202.00	0.28	0.38
DR2	82.00	84.00	0.14	0.21	DR2	202.00	204.00	0.29	0.44
DR2	84.00	86.00	0.17	0.34	DR2	204.00	206.00	0.20	0.32
DR2	86.00	88.00	0.18	0.37	DR2	206.00	208.00	0.22	0.42
DR2	88.00	90.00	Broken up	Broken up	DR2	208.00	210.00	0.29	0.35
DR2	90.00	92.00	1.79	3.07	DR2	210.00	212.00	0.20	0.30
DR2	92.00	94.00	1.13	1.63	DR2	212.00	214.00	0.26	0.39
DR2	94.00	96.00	1.03	1.93	DR2	214.00	216.00	0.24	0.36
DR2	96.00	98.00	0.96	1.49	DR2	216.00	218.00	0.26	0.51
DR2	98.00	100.00	0.23	0.37	DR2	218.00	220.00	0.26	0.62
DR2	100.00	102.00	0.28	0.53	DR2	220.00	222.00	0.22	0.30
DR2	102.00	104.00	0.28	0.65	DR2	222.00	224.00	0.17	0.29
DR2	104.00	106.00	0.30	0.42	DR2	224.00	226.00	0.16	0.22
DR2	106.00	108.00	Broken up	Broken up	DR2	226.00	228.00	0.22	0.50
DR2	108.00	110.00	0.36	0.64	DR2	228.00	230.00	0.32	0.43
DR2	110.00	112.00	Broken up	Broken up	DR2	230.00	232.00	0.22	0.31
DR2	112.00	114.00	0.15	0.50	DR2	232.00	234.00	0.39	0.51
DR2	114.00	116.00	0.18	0.31	DR2	234.00	236.00	0.49	1.01
DR2	116.00	118.00	0.10	0.14	DR2	236.00	238.00	0.20	0.35
DR2	118.00	120.00	Broken up	Broken up	DR2	238.00	240.00	0.27	0.35

Hole_ID	From	To	Avg Mag	Peak Mag	Hole_ID	From	To	Avg Mag	Peak Mag
DR2	240.00	242.00	0.29	0.48	DR2	354.00	356.00	4.88	9.40
DR2	242.00	244.00	0.29	0.41	DR2	356.00	358.00	3.77	7.41
DR2	244.00	246.00	0.21	0.62	DR2	358.00	360.00	3.87	8.43
DR2	246.00	248.00	0.21	0.38	DR2	360.00	362.00	1.08	4.20
DR2	248.00	250.00	0.12	0.32	DR2	362.00	364.00	3.60	7.00
DR2	250.00	252.00	0.22	0.35	DR2	364.00	366.00	0.94	5.13
DR2	252.00	254.00	0.13	0.34	DR2	366.00	368.00	1.75	7.92
DR2	254.00	256.00	0.01	0.44	DR2	368.00	370.00	1.04	1.99
DR2	256.00	258.00	0.02	0.32	DR2	370.00	372.00	3.04	8.12
DR2	258.00	260.00	0.18	0.66	DR2	372.00	374.00	2.71	8.61
DR2	260.00	262.00	0.26	0.70	DR2	374.00	376.00	4.73	12.10
DR2	262.00	264.00	0.21	0.42	DR2	376.00	378.00	1.94	5.63
DR2	264.00	266.00	0.30	1.11	DR2	378.00	380.00	3.60	9.84
DR2	266.00	268.00	0.20	0.77	DR2	380.00	382.00	2.94	5.05
DR2	268.00	270.00	0.33	1.13	DR2	382.00	384.00	2.35	5.23
DR2	270.00	272.00	0.23	0.67	DR2	384.00	386.00	4.20	8.93
DR2	272.00	274.00	0.37	0.92	DR2	386.00	388.00	0.41	1.95
DR2	274.00	276.00	2.04	7.57	DR2	388.00	390.00	0.17	0.86
DR2	276.00	278.00	0.54	1.24	DR2	390.00	392.00	0.30	1.66
DR2	278.00	280.00	0.24	1.09	DR2	392.00	394.00	0.56	2.47
DR2	280.00	282.00	0.20	0.42	DR2	394.00	396.00	0.33	0.75
DR2	282.00	284.00	1.28	4.48	DR2	396.00	398.00	0.28	0.84
DR2	284.00	286.00	4.09	8.90	DR2	398.00	400.00	1.11	3.44
DR2	286.00	288.00	4.23	8.06	DR2	400.00	402.00	0.34	0.98
DR2	288.00	290.00	1.18	5.00	DR2	402.00	404.00	1.01	2.12
DR2	290.00	292.00	0.33	0.73	DR2	404.00	406.00	0.35	0.78
DR2	292.00	294.00	0.38	0.98	DR2	406.00	408.00	0.26	1.97
DR2	294.00	296.00	0.55	4.24	DR2	408.00	410.00	0.34	0.75
DR2	296.00	298.00	0.19	1.24	DR2	410.00	412.00	0.21	0.51
DR2	298.00	300.00	0.20	1.00	DR2	412.00	414.00	0.34	2.12
DR2	300.00	302.00	0.48	0.96	DR2	414.00	416.00	0.13	0.97
DR2	302.00	304.00	0.41	0.92	DR2	416.00	418.00	0.24	0.65
DR2	304.00	306.00	0.64	2.06	DR2	418.00	420.00	0.11	0.42
DR2	306.00	308.00	0.59	1.13	DR2	420.00	422.00	0.13	0.49
DR2	308.00	310.00	0.85	1.70	DR2	422.00	424.00	0.03	0.23
DR2	310.00	312.00	0.61	2.04	DR2	424.00	426.00	0.16	0.96
DR2	312.00	314.00	0.56	1.57	DR2	426.00	428.00	0.23	0.80
DR2	314.00	316.00	0.86	2.32			EOH		
DR2	316.00	318.00	0.50	1.86					
DR2	318.00	320.00	0.69	1.70					
DR2	320.00	322.00	2.70	6.29					
DR2	322.00	324.00	0.52	1.05					
DR2	324.00	326.00	0.46	1.22					
DR2	326.00	328.00	0.73	1.22					
DR2	328.00	330.00	0.44	1.84					
DR2	330.00	332.00	0.78	2.26					
DR2	332.00	334.00	0.64	1.98					
DR2	334.00	336.00	0.31	1.70					
DR2	336.00	338.00	4.84	10.30					
DR2	338.00	340.00	5.60	12.00					
DR2	340.00	342.00	1.10	5.50					
DR2	342.00	344.00	0.26	0.98					
DR2	344.00	346.00	0.65	4.20					
DR2	346.00	348.00	4.03	10.20					
DR2	348.00	350.00	5.39	10.70					
DR2	350.00	352.00	7.54	15.10					
DR2	352.00	354.00	5.02	7.74					

Project	Tas Porphyry	Prospect	Powerful	Hole_ID	DR2
Pluton Resources - Sampling Notes					
Sample ID	Composite No.	From (m)	To (m)	Likely elements to assay	
152101		85	86	Gold, Base Metals, Other	
152102		86	87	Gold, Base Metals, Other	
152103		87	88	Gold, Base Metals, Other	
152104		88	89	Gold, Base Metals, Other	
152105		89	90	Gold, Base Metals, Other	
152106		90	91	Gold, Base Metals, Other	
152107		91	92	Gold, Base Metals, Other	
152108		92	93	Gold, Base Metals, Other	
152109		93	94	Gold, Base Metals, Other	
152110		94	95	Gold, Base Metals, Other	
152111		95	96	Gold, Base Metals, Other	
152112		96	97	Gold, Base Metals, Other	
152113		97	98	Gold, Base Metals, Other	
152114		98	99	Gold, Base Metals, Other	
152115		99	100	Gold, Base Metals, Other	
152116		100	101	Gold, Base Metals, Other	
152117		101	102	Gold, Base Metals, Other	
152118		102	103	Gold, Base Metals, Other	
152119		103	104	Gold, Base Metals, Other	
152120		104	105	Gold, Base Metals, Other	
152121		105	106	Gold, Base Metals, Other	
152122		106	107	Gold, Base Metals, Other	
152123		107	108	Gold, Base Metals, Other	
152124		108	109	Gold, Base Metals, Other	
152125		109	110	Gold, Base Metals, Other	
152126	2m samples	110	112	Gold, Base Metals, Other	
152127		112	114	Gold, Base Metals, Other	
152128		114	116	Gold, Base Metals, Other	
152129		116	118	Gold, Base Metals, Other	
152130		118	120	Gold, Base Metals, Other	
152131		120	122	Gold, Base Metals, Other	
152132		122	124	Gold, Base Metals, Other	
152133		124	126	Gold, Base Metals, Other	
152134		126	128	Gold, Base Metals, Other	
152135		128	130	Gold, Base Metals, Other	
152136		130	132	Gold, Base Metals, Other	
152137		132	134	Gold, Base Metals, Other	
152138		134	136	Gold, Base Metals, Other	
152139		136	138	Gold, Base Metals, Other	
152140		138	140	Gold, Base Metals, Other	
152141		140	142	Gold, Base Metals, Other	
152142		142	144	Gold, Base Metals, Other	
152143		144	146	Gold, Base Metals, Other	
152144		146	148	Gold, Base Metals, Other	
152145		148	150	Gold, Base Metals, Other	
152146		150	152	Gold, Base Metals, Other	
152147		152	154	Gold, Base Metals, Other	
152148		154	156	Gold, Base Metals, Other	
152149		156	158	Gold, Base Metals, Other	
152150		158	160	Gold, Base Metals, Other	
152151		160	162	Gold, Base Metals, Other	
152152		162	164	Gold, Base Metals, Other	
152153		164	166	Gold, Base Metals, Other	
152154		166	168	Gold, Base Metals, Other	
152155		168	170	Gold, Base Metals, Other	

152156		170	172	Gold, Base Metals, Other
152157		172	174	Gold, Base Metals, Other
152158		174	176	Gold, Base Metals, Other
152159		176	178	Gold, Base Metals, Other
152160	1m samples	178	179	Gold, Base Metals, Other
152161		179	180	Gold, Base Metals, Other
152162		180	181	Gold, Base Metals, Other
152163		181	182	Gold, Base Metals, Other
152164		182	183	Gold, Base Metals, Other
152165		183	184	Gold, Base Metals, Other
152166	2m samples	184	186	Gold, Base Metals, Other
152167		186	188	Gold, Base Metals, Other
152168		188	190	Gold, Base Metals, Other
152169		190	192	Gold, Base Metals, Other
152170		192	194	Gold, Base Metals, Other
152171		194	196	Gold, Base Metals, Other
152172		196	198	Gold, Base Metals, Other
152173		198	200	Gold, Base Metals, Other
152174		200	202	Gold, Base Metals, Other
152175		202	204	Gold, Base Metals, Other
152176		204	206	Gold, Base Metals, Other
152177		206	208	Gold, Base Metals, Other
152178		208	210	Gold, Base Metals, Other
152179		210	212	Gold, Base Metals, Other
152180		212	214	Gold, Base Metals, Other
152181		214	216	Gold, Base Metals, Other
152182		216	218	Gold, Base Metals, Other
152183		218	220	Gold, Base Metals, Other
152184		220	222	Gold, Base Metals, Other
152185		222	224	Gold, Base Metals, Other
152186		224	226	Gold, Base Metals, Other
152187		226	228	Gold, Base Metals, Other
152188		228	230	Gold, Base Metals, Other
152189		230	232	Gold, Base Metals, Other
152190		232	234	Gold, Base Metals, Other
152191		234	236	Gold, Base Metals, Other
152192		236	238	Gold, Base Metals, Other
152193		238	240	Gold, Base Metals, Other
152194		240	242	Gold, Base Metals, Other
152195		242	244	Gold, Base Metals, Other
152196		244	246	Gold, Base Metals, Other
152197		246	248	Gold, Base Metals, Other
152198		248	250	Gold, Base Metals, Other
152199		250	252	Gold, Base Metals, Other
152200		252	254	Gold, Base Metals, Other
152201		254	256	Gold, Base Metals, Other
152202		256	257	Gold, Base Metals, Other
152203		257	258	Gold, Base Metals, Other
152204		258	259	Gold, Base Metals, Other
152205		259	260	Gold, Base Metals, Other
152206		260	261	Gold, Base Metals, Other
152207		261	262	Gold, Base Metals, Other
152208		262	263	Gold, Base Metals, Other
152209		263	264	Gold, Base Metals, Other
152210		264	265	Gold, Base Metals, Other
152211		265	266	Gold, Base Metals, Other
152212		266	267	Gold, Base Metals, Other
152213		267	268	Gold, Base Metals, Other

152214		268	269	Gold, Base Metals, Other
152215		269	270	Gold, Base Metals, Other
152216		270	271	Gold, Base Metals, Other
152217		271	272	Gold, Base Metals, Other
152218		272	273	Gold, Base Metals, Other
152219		273	274	Gold, Base Metals, Other
152220		274	275	Gold, Base Metals, Other
152221		275	276	Gold, Base Metals, Other, Whole Rock, Rare Earths
152222		285	286	Gold, Base Metals, Other, Whole Rock, Rare Earths
152223		295	296	Gold, Base Metals, Other, Whole Rock, Rare Earths
152224		305	306	Gold, Base Metals, Other, Whole Rock, Rare Earths
152225		315	316	Gold, Base Metals, Other, Whole Rock, Rare Earths
152226		325	326	Gold, Base Metals, Other, Whole Rock, Rare Earths
152227		335	336	Gold, Base Metals, Other, Whole Rock, Rare Earths
152228		345	346	Gold, Base Metals, Other, Whole Rock, Rare Earths
152229		355	356	Gold, Base Metals, Other, Whole Rock, Rare Earths
152230		365	366	Gold, Base Metals, Other, Whole Rock, Rare Earths
152231		375	376	Gold, Base Metals, Other, Whole Rock, Rare Earths
152232		385	386	Gold, Base Metals, Other, Whole Rock, Rare Earths
152233		395	396	Gold, Base Metals, Other, Whole Rock, Rare Earths
152234		405	406	Gold, Base Metals, Other, Whole Rock, Rare Earths
152235		415	416	Gold, Base Metals, Other, Whole Rock, Rare Earths
152236		425	426	Gold, Base Metals, Other, Whole Rock, Rare Earths

Down Hole Surveys - Pluton Resources									
Hole_ID	Depth	Azimuth	Dip	ID	Mag_azm	Type	Verified	Comment	Date
DR3	0	50	-60		36		N	Check Az	18/06/2007
DR3	50	51	-60.5		37		Y		19/06/2007
DR3	100	51.5	-60.5		37.5		Y		20/06/2007
DR3	150	51	-60		37		Y		
DR3	200	53	-60		39		Y	Az inferred	
DR3	250	55	-59.75		41		Y		25/06/2007
DR3	300	59	-59.25		45		Y		26/06/2007
DR3	350	59	-59.5		45		Y	Az inferred	
DR3	400	61	-60		47		N	No disc available	2/07/2007

Pluton Resources Detailed Drill Log																																						
Hole Number	DR3	Sheet No	Mineralisation / Alteration and additional descriptors																								Full description: including colour, main alteration type and strength, component minerals (pref in order of abundance), rock type, texture, alteration and mineralisation details eg: pale green phyllic (moderate) quartz-feldspar phyrlic dacite porphyry, phenocrysts to 4mm, sericite (m) altered phenocrysts, silica (w) altered groundmass, pyrite(3-5%) as disseminations and minor veinlets											
INTERVAL		ROCK CODES		Alteration summary				Pyrite	Chalco	Haem	Magnet	Potassic K-feldspar	Chloritic	Sericitic	Haematitic	T'maline	QVN	Other minerals / texture / colour																				
FROM (m)	TO (m)	Strat Code	Rock type	Primary Altn	2nd Altn	3rd Altn	Weathering	Style	Amount %	Style	Amount %	Style	Amount %	Style	Amount %	Style	Amount %	Style	Amount %	Style	Amount %	Style	Amount %	Style	Amount %	Style		Amount %										
0.00	27.70	Cg	IFGRAN		KSP	Chl	w					P	vw	Rp	vw										Li	Vn	0.2	m	20-C	Light orange and cream mottled med-coarse granite, partly friable and moderately broken, quartz 20%, K-feldspar 40%, plagioclase 30% and 10% ferromagnesian minerals (dominantly biotite, possible hornblende) plagioclase crystals are zoned with a soft green core (probable sericite) and a soft cream rim, quartz slightly larger crystals to 8mm, plagioclase typically 2-5mm, biotite typically 3-4mm and partially chloritised, goethite and limonite on fractures probably after haematite veinlets.								
27.70	29.30	Cg	IFGRAN	KSP	Chl		T					P	m	Rp	w													m	20-2Gr	Light orange and green med-coarse granite, moderately broken, quartz 20%, K-feldspar masked by K-feldspar alteration, plagioclase 30% and partially altered to K-feldspar and 10% chloritised ferromagnesian minerals								
29.30	31.40	Cg	OVEIN	QVN			T	Vn	0.5			Vn	5														s	m	W	Milky quartz vein with 5% haematite and 0.5% pyrite, haematite possibly late brecciating the quartz, rare open cavities containing crystalline quartz								
31.40	98.80	Cg	IFGRAN	KSP	Chl						D	0.1	P	m	Rp	w/m												w/m	30-C-2G	Orange green and cream mottled med-coarse granite, 30% large anhedral quartz to 1.5cm, 10-15% biotite (commonly chloritised), 20-25% cream and light green plagioclase, 30-40% orange K-feldspar, probably some primary interstitial with alteration clots to 2cm and pervasive alteration, magnetite rich hydrothermal breccia 83.7-83.9 minor veining including qtz-chl-cb, qtz-py-hem, chlorite alteration generally only replacing biotite and occasionally as veins								
98.80	104.20	Cg	IFGRAN	KSP	Hem	Chl				Vn	3	Vn	2	P	m	Rp	m		Vn	m								m	30-4Gr	Bright orange and minor green mottled coarse granite, massive magnetite-haematite veins to 3cm, quartz (20-25%) to 12mm, K-feldspar not differentiable due to pervasive K-feldspar alteration, plagioclase replaced by K-feldspar, ferromagnesian phases chloritised, nearly pegmatitic at down hole contact								
104.20	132.20	Cg	IFGRAD	Chl	KSP	Ser		D	0.5			D	0.5	P	w/m	Rp	m	Rp	w									w/m	1/2A-1P	Light grey and pink darkening down hole to dark grey-green and med pink medium grained granodiorite with 20-35% hornblende>>biotite, 30% light green plagioclase (often zoned), K-feldspar 20-30% typically as interstitial filling, minor quartz <5%, disseminated pyrite 0.5%, banded K-feldspar alteration and strongly xenolithic (intermediate to mafic xenoliths) near start of interval, more sparsely xenolithic down hole, alteration suggests previous unit is younger and intrudes this older unit								
132.20	133.50	Cg	OVEIN	Hem	QVN			Vn	2			Vn	30	Vn	3													s	w/m	W-R	White quartz vein impregnated with 20% haematite and minor pyrite, strong haematite alteration halo							
133.50	194.00	Cg	IFGRAD	KSP	Chl	Sil		D	0.2	Vn	0.01	Vn	0.1	D	0.5	P	w/m	Rp	w/m							Cb	Vn	0.1	w/m	3/4A>2P	Medium to dark grey and lesser light-medium pink granodiorite, 25-30% plagioclase crystals occasionally chloritised in strong K-feldspar altered zones, <5% quartz, K-feldspar 25-30% as amorphous interstitial non crystalline phase, crystalline hornblende and fine ferromagnesian interstitial material (commonly chloritised) -40%, pervasive (w-m) potassic alteration and chlorite replacing ferromagnesian phases and occasionally plagioclase, occasional narrow bands of pervasive silica, weakly xenolithic, trace disseminated pyrite and sparse pyrite and carbonate veins to 3mm, interstitial ferromagnesian phase may be biotitic potassic alteration							
194.00	195.35	Cg	IFGRAD	SQV	Chl	KSP		Vn	7			Vn	2	Vn	3	P	w/m	Sv	m/s									m	w/m	4G-W	Quartz-pyrite-magnetite-haematite veins with strong chloritic selvages and potassic haloes, pyrite generally clotted, haematite and magnetite typically massive and in selvages							
195.35	200.75	Cg	IFGRAD	KSP	Sil	Chl		Vn	0.1					SP	s	Rp	m/s												w/m	30-1Br	Tan pervasive strongly silica altered and pinkish-orange semi-pervasively potassically altered granodiorite, chloritised plagioclase (40%) near start of interval, primary crystalline texture wiped out in strong silica and K-feldspar alteration zones							
200.75	200.95	Cg	OVEIN	SQV	KSP			Vn	10									Vn	w									s	w	3Br/O-1A	Quartz-pyrite-K-feldspar-chlorite vein, pyrite generally clotted							
200.95	205.80	Cg	IFGRAD	KSP	Sil	Chl		D	0.1					SP	m														w/m	2A-30/P	Light grey/green pervasive moderately-strongly silica altered and pinkish-orange semi-pervasively potassically altered granodiorite, chloritised plagioclase (40%) near start of interval, med grained crystalline texture preserved in alteration zones, one 4cm qtz-py-Kl-chl vein as in previous interval							
205.80	209.00	Cg	IFGRAD		Sil			D	0.2																				w	1Gr-W-4A	Pale green silica altered black and white medium grained granodiorite, comprised dominantly of plagioclase (40%) and ferromagnesian minerals (40%) which are partially chloritised, ~10% quartz and possible light grey silica replacement of K-feldspar component.							
209.00	241.80	Cg	IFGRAD	KSP	Prop	Cb		Vn	0.5				D	2	P	w/m	P	w/m										vw	Cb	Vn	2	Ep	Vn	1	w	4G-3P	Dark green-medium pink hornblende rich (15-25%), quartz poor(-5%) medium grained equigranular granodiorite, weakly to moderately xenolithic (plag phyrlic andesite?), chlorite altered plagioclase, plag to 50%, rarely sericite altered, pervasive bands of K-feldspar, rare quartz-chlorite-pyrite veins to 2cm, pinkish cb-chl-py veins up to 8cm but typically <1cm approx 4cm, epidote veinlets to 3mm in the upper part of the interval with magnetite veins to 0.5-4cm more common lower in the interval, disseminated magnetite common throughout the interval but strongest in the end of interval	
241.80	256.80	Cg	IFGRAD	Chl	KSP			D	0.1				Vn	1	P	vw	Rp	w												Cb	Vn	0.2	Ep	Vn	0.1	w	C-2Gr-2P	Pale-dark green and cream and med-light pink hornblende rich (15-25%), plagioclase rich (40%), quartz poor(-5%) medium grained equigranular granodiorite, weakly xenolithic, chlorite altered plagioclase?, pervasive weak K-feldspar, weak carbonate, chlorite and epidote veins, one 3cm K-feldspar altered dyke at 245.5m
256.80	259.00	Cg	IFGRAD		Prop			D	0.05																					Ep	Vn	0.2				1P-W-N	Pale pink, green, white and black hornblende rich (25-30%) plagioclase rich (40-45%), K-feldspar (20%) and quartz <10% granodiorite, with multiple small (<10cm) dykes of more felsic composition (light grey and typically 30% quartz and <10% mafics partitioned into selvages, xenolithic (cut by dykes), trace disseminated pyrite	
259.00	275.50	Cg	IFGRAD		Prop			D	0.1																					Ep	Vn	0.5				1P-W-N	"Black and white" pale green and pale pink plagioclase rich(40%) hornblende rich (30-35%), trace K-feldspar and <15% quartz, weakly to strongly xenolithic with typical plagioclase phyrlic/microporphyrilic light-med grey andesite? xenoliths and more mafic dark grey 60% amphibole xenoliths, weak epidote veining, trace-1% disseminated pyrite	
275.50	280.75	Cg	IFGRAD	KSP	Prop			D	0.05					Sp	w															Ep	Vn	0.5	Cb	Vn	0.02		3A-2P	Medium grey altered "black and white" plagioclase/hornblende rich granodiorite with darker alteration, weak potassic bands, some probable chloritic alteration of plagioclase in darkest areas, epidote veins with potassic haloes, trace quartz veins and carbonate veinlets, weakly xenolithic, trace disseminated pyrite

Down Hole Structural Log - Pluton Resources

Hole_ID	At	Alpha angle (deg from LCA)	Beta angle (deg from BDC)	Structure_t ype	Comments	Azimuth (True)	Dip	Struc_ID
DR3	51.6	35	350	Vn	quartz-chlorite-cb vein in mag destructive zone of chl altn			
DR3	40	25		dyke	k-feldspar fine grained 4cm dyke			
DR3	44	20		Vn	cb-chl-py			
DR3	104.2	50	140	contact	irregular granite contact - best estimate of contact surface (indistinct)			
DR3	113.6	40	350	dyke	k-feldspar fine grained 4cm dyke			
DR3	120	50	335	Vn	1cm cb vein			
DR3	133.5	45	10	Vn	1cm chl-cb-py vein selvage on major quartz vein with haematite alteration halo			
DR3	142	30	0	Vn	chl-py vein associated with chl-ksp banding			
DR3	172	45	330	Vn	3mm cb vein			
DR3	182.5	25	320	Vn	1cm cb-py-chl vn			
DR3	189	40	335	Vn	1cm py-qtz-ksp vein with chl-cb selvage			
DR3	191	30	190	Vn	Probable epidote veinlet and k-feldspar alteration banding			
DR3	200.6	47	15	Vn	pyrite- ksp-chl-qtz-cb? Vein			
DR3	211.5	65	55	Vn	epidote-py veinlet 2mm			
DR3	214.9	22	280	Vn	0.5cm cb>chl>py vein, chlorite and pyrite in selvage			
DR3	214.1	55	55	Vn	1cm qtz>>chl>py vein			
DR3	213.9	45	80	Vn	1cm qtz-carbonate-chlorite-K feldspar>pyrite vein			
DR3	217.8	45	190	Vn	3mm cb vein (one of 4 in same orientation)			
DR3	226.4	25	295	Vn	0.5cm cb>>chl vein			
DR3	226.25	25	350	Vn	0.5cm cb>chl-hem-py>>cpy vein			
DR3	226.05	45	355	Vn	1cm magnetite-carbonate-chlorite-pyrite (pyritohedrons to 8mm) vein			
DR3	228.2	55	100	Vn	3mm carbonate vein with chlorite and disseminated pyrite in selvages			
DR3	229.4	25	350	Vn	12cm (true width) pinkish carbonate with chlorite selvages containing disseminated pyrite			
DR3	229.55	35	315	Vn	2mm cb vein made of 2 bands separated by chlorite with chlorite selvages and clots of pyrite			
DR3	229.9	30	350	Vn	weakly banded carbonate-chlorite vein with clots of quartz and clots of pyrite			
DR3	230	30	330	Vn	banded cb>chl vein with lesser quartz growing perpendicular to the vein as clots and disseminated pyrite			
DR3	233	40	325	Vn	carbonate-chlorite vein with dissem/clots of pyrite			
DR3	240.4	30	335	Vn	magnetite vein swarm with minor dissem pyrite			
DR3	240.35	20	335	Vn	carbonate-chlorite vein with dissem/clots of pyrite			

Hole_ID	At	Alpha angle (deg from LCA)	Beta angle (deg from BDC)	Structure_t ype	Comments	Azimuth (True)	Dip	Struc_ID
DR3	240.9	45	350	Vn	2mm magnetite vein with very fine epidote selvedge/halo			
DR3	245.45	42	340	dyke	Potassically altered 3cm aplite dyke (20% qtz, 30% mafics, 50% K feldspar)			
DR3	256.8	40	5	dyke	10cm leucocratic dyke, probably silica rich with <10% mafics			
DR3	257.1	50	345	dyke	2cm cream-milky quartz-plagioclase vein dyke			
DR3	257.5	50	350	dyke	6cm grey and white quartz-plagioclase porphyritic dyke wit <10% mafics, probably silica rich			
DR3	258.9	50	350	dyke	2cm cream-milky quartz-plagioclase vein dyke			
DR3	259	50	0	dyke	porphyritic greya nd white plagioclase phyric fine grained dyke, 15% mafics with more mafic contacts			
DR3	266.3	50	340	Vn	epidote - pyrite vein with 2cm alteration halo			
DR3	274.8	50	345	Vn	1-2mm epidote vein with 1cm alteration halo			
DR3	275.8	40	310	Vn	1cm quartz vein with chlorite alteration icm either side			
DR3	276	30	305	Vn	2cm quartz-chlorite-pyrite vein			
DR3	317.8	40	340	Vn	1mm epidite vein with k-feldspar halo			
DR3	381.4	35	90	Vn	imm epidote vein			
DR3	366.1	40	310	Vn	3cm carbonate>spahelrite and galena vein			
DR3	379.3	30	22	Vn	1.5 cm light pink-milky white carbonate vein			
DR3	408.35	45	190	Vn	3.5mm silica-epidote vein, fairly flat lying			
DR3	408.7	40	215	Vn	3mm grey silica vein with carbonate spotting and epidote in selvedges, fairly flat lying			
DR3	408.8	50	165	Vn	3mm carbonate vein with epidite selvedges			

Magnetic Susceptibility Log (all figures x 10-3 SI units) - Pluton Resources

Hole_ID	From	To	Avg Mag	Peak Mag	Hole_ID	From	To	Avg Mag	Peak Mag
DR3	0.00	20.00	too rubbly		DR3	120.00	122.00	7.12	16.30
DR3					DR3	122.00	124.00	7.72	18.50
DR3					DR3	124.00	126.00	1.68	12.40
DR3					DR3	126.00	128.00	1.70	7.83
DR3					DR3	128.00	130.00	2.45	10.20
DR3					DR3	130.00	132.00	1.01	4.55
DR3					DR3	132.00	134.00	1.67	3.53
DR3					DR3	134.00	136.00	5.24	15.90
DR3					DR3	136.00	138.00	16.40	28.00
DR3					DR3	138.00	140.00	25.70	30.40
DR3	20.00	22.00	5.54	6.78	DR3	140.00	142.00	27.80	33.40
DR3	22.00	24.00	5.09	7.25	DR3	142.00	144.00	16.20	25.90
DR3	24.00	26.00	3.35	4.77	DR3	144.00	146.00	21.60	29.60
DR3	26.00	28.00	1.81	3.96	DR3	146.00	148.00	11.60	28.80
DR3	28.00	30.00	0.36	0.89	DR3	148.00	150.00	16.60	41.50
DR3	30.00	32.00	0.71	1.36	DR3	150.00	152.00	3.84	19.70
DR3	32.00	34.00	0.49	1.05	DR3	152.00	154.00	0.46	3.16
DR3	34.00	36.00	0.37	0.93	DR3	154.00	156.00	18.50	31.70
DR3	36.00	38.00	6.27	10.60	DR3	156.00	158.00	9.48	20.60
DR3	38.00	40.00	8.21	11.70	DR3	158.00	160.00	4.51	19.60
DR3	40.00	42.00	5.44	9.75	DR3	160.00	162.00	14.50	22.40
DR3	42.00	44.00	5.65	9.88	DR3	162.00	164.00	10.80	24.70
DR3	44.00	46.00	6.73	10.60	DR3	164.00	166.00	7.10	17.90
DR3	46.00	48.00	7.20	15.60	DR3	166.00	168.00	6.39	16.10
DR3	48.00	50.00	7.97	13.50	DR3	168.00	170.00	3.83	15.10
DR3	50.00	52.00	0.30	0.89	DR3	170.00	172.00	8.80	24.90
DR3	52.00	54.00	4.44	8.50	DR3	172.00	174.00	9.76	18.50
DR3	54.00	56.00	5.37	10.20	DR3	174.00	176.00	4.64	9.82
DR3	56.00	58.00	4.24	7.77	DR3	176.00	178.00	8.12	19.60
DR3	58.00	60.00	0.22	2.00	DR3	178.00	180.00	8.98	28.70
DR3	60.00	62.00	2.00	3.64	DR3	180.00	182.00	7.87	18.80
DR3	62.00	64.00	2.15	4.19	DR3	182.00	184.00	17.50	26.20
DR3	64.00	66.00	3.59	7.22	DR3	184.00	186.00	12.50	25.50
DR3	66.00	68.00	4.35	8.56	DR3	186.00	188.00	8.91	16.30
DR3	68.00	70.00	3.20	7.30	DR3	188.00	190.00	22.20	33.10
DR3	70.00	72.00	1.19	3.09	DR3	190.00	192.00	23.60	31.30
DR3	72.00	74.00	3.03	6.89	DR3	192.00	194.00	0.56	0.71
DR3	74.00	76.00	5.28	11.40	DR3	194.00	196.00	7.49	16.60
DR3	76.00	78.00	6.70	12.70	DR3	196.00	198.00	0.49	3.05
DR3	78.00	80.00	6.24	13.20	DR3	198.00	200.00	0.25	0.71
DR3	80.00	82.00	12.10	19.10	DR3	200.00	202.00	0.20	0.49
DR3	82.00	84.00	8.55	262.00	DR3	202.00	204.00	0.31	0.40
DR3	84.00	86.00	13.70	15.50	DR3	204.00	206.00	0.23	0.43
DR3	86.00	88.00	2.93	6.62	DR3	206.00	208.00	0.27	0.49
DR3	88.00	90.00	9.38	14.80	DR3	208.00	210.00	0.19	0.42
DR3	90.00	92.00	4.68	12.10	DR3	210.00	212.00	4.13	15.50
DR3	92.00	94.00	8.80	13.90	DR3	212.00	214.00	14.10	27.20
DR3	94.00	96.00	9.95	18.10	DR3	214.00	216.00	27.10	68.80
DR3	96.00	98.00	8.03	11.20	DR3	216.00	218.00	4.83	32.30
DR3	98.00	100.00	43.10	248.00	DR3	218.00	220.00	0.37	0.47
DR3	100.00	102.00	1.14	4.11	DR3	220.00	222.00	1.77	11.70
DR3	102.00	104.00	5.75	15.30	DR3	222.00	224.00	10.80	17.60
DR3	104.00	106.00	24.20	57.80	DR3	224.00	226.00	16.10	27.00
DR3	106.00	108.00	4.49	11.70	DR3	226.00	228.00	17.30	42.50
DR3	108.00	110.00	7.80	15.50	DR3	228.00	230.00	13.60	23.90
DR3	110.00	112.00	20.20	25.80	DR3	230.00	232.00	20.50	27.10
DR3	112.00	114.00	19.50	27.50	DR3	232.00	234.00	19.10	30.30
DR3	114.00	116.00	14.80	29.60	DR3	234.00	236.00	22.30	30.00
DR3	116.00	118.00	19.30	24.40	DR3	236.00	238.00	21.10	32.20
DR3	118.00	120.00	15.00	21.80	DR3	238.00	240.00	77.50	399.00

Hole_ID	From	To	Avg Mag	Peak Mag	Hole_ID	From	To	Avg Mag	Peak Mag
DR3	240.00	242.00	82.80	536.00	DR3	354.00	356.00	1.39	2.87
DR3	242.00	244.00	7.77	15.50	DR3	356.00	358.00	1.56	5.70
DR3	244.00	246.00	7.47	22.40	DR3	358.00	360.00	7.47	19.30
DR3	246.00	248.00	2.19	4.77	DR3	360.00	362.00	5.97	17.10
DR3	248.00	250.00	1.04	6.29	DR3	362.00	364.00	7.20	25.00
DR3	250.00	252.00	21.80	37.80	DR3	364.00	366.00	20.60	33.30
DR3	252.00	254.00	12.20	23.70	DR3	366.00	368.00	6.48	19.20
DR3	254.00	256.00	2.10	14.30	DR3	368.00	370.00	0.40	0.49
DR3	256.00	258.00	3.93	15.30	DR3	370.00	372.00	1.66	8.36
DR3	258.00	260.00	6.59	19.00	DR3	372.00	374.00	4.20	8.71
DR3	260.00	262.00	4.20	12.20	DR3	374.00	376.00	0.63	2.03
DR3	262.00	264.00	2.80	12.20	DR3	376.00	378.00	1.19	6.47
DR3	264.00	266.00	5.79	19.30	DR3	378.00	380.00	7.92	20.00
DR3	266.00	268.00	2.57	8.28	DR3	380.00	382.00	7.01	14.30
DR3	268.00	270.00	4.51	23.60	DR3	382.00	384.00	8.10	16.20
DR3	270.00	272.00	2.96	6.95	DR3	384.00	386.00	5.92	10.20
DR3	272.00	274.00	4.99	17.50	DR3	386.00	388.00	0.55	0.62
DR3	274.00	276.00	8.63	16.70	DR3	388.00	390.00	2.25	7.70
DR3	276.00	278.00	11.70	24.30	DR3	390.00	392.00	1.09	2.15
DR3	278.00	280.00	9.59	18.00	DR3	392.00	394.00	1.14	2.74
DR3	280.00	282.00	7.91	16.80	DR3	394.00	396.00	3.72	11.20
DR3	282.00	284.00	3.32	6.91	DR3	396.00	398.00	3.41	11.50
DR3	284.00	286.00	4.83	7.46	DR3	398.00	400.00	5.23	11.60
DR3	286.00	288.00	4.29	7.74	DR3	400.00	402.00	6.42	29.90
DR3	288.00	290.00	4.14	10.70	DR3	402.00	404.00	9.01	21.70
DR3	290.00	292.00	14.50	28.40	DR3	404.00	406.00	8.11	16.30
DR3	292.00	294.00	9.50	17.70	DR3	406.00	408.00	7.53	21.40
DR3	294.00	296.00	13.50	20.90	DR3	408.00	410.00	5.42	19.10
DR3	296.00	298.00	16.00	23.00	DR3	410.00	411.70	7.82	14.80
DR3	298.00	300.00	14.00	25.50			EOH		
DR3	300.00	302.00	11.20	33.30					
DR3	302.00	304.00	0.87	1.02					
DR3	304.00	306.00	0.70	1.09					
DR3	306.00	308.00	0.62	0.86					
DR3	308.00	310.00	2.80	6.53					
DR3	310.00	312.00	1.17	3.40					
DR3	312.00	314.00	0.60	1.95					
DR3	314.00	316.00	0.46	0.62					
DR3	316.00	318.00	1.52	4.53					
DR3	318.00	320.00	4.04	9.77					
DR3	320.00	322.00	0.93	1.97					
DR3	322.00	324.00	0.45	1.02					
DR3	324.00	326.00	0.68	0.98					
DR3	326.00	328.00	0.88	1.33					
DR3	328.00	330.00	0.10	0.25					
DR3	330.00	332.00	0.65	8.28					
DR3	332.00	334.00	1.11	4.02					
DR3	334.00	336.00	3.03	10.70					
DR3	336.00	338.00	2.70	12.50					
DR3	338.00	340.00	6.15	9.57					
DR3	340.00	342.00	13.70	18.80					
DR3	342.00	344.00	9.67	21.80					
DR3	344.00	346.00	6.07	9.68					
DR3	346.00	348.00	1.66	3.62					
DR3	348.00	350.00	0.72	1.15					
DR3	350.00	352.00	0.85	2.04					
DR3	352.00	354.00	0.94	1.75					

Project	Tas Porphyry	Prospect	Powerful	Hole_ID	DR3
Pluton Resources - Sampling Notes					
Sample ID	Composite No.	From (m)	To (m)	Likely elements to assay	
152301		29	30	Gold, Base Metals, Other metals	
152302		30	31	Gold, Base Metals, Other metals	
152303		31	32	Gold, Base Metals, Other metals	
152304		32	33	Gold, Base Metals, Other metals	
152305		33	34	Gold, Base Metals, Other metals	
152306		50	51	Gold, Base Metals, Other metals	
152307		51	52	Gold, Base Metals, Other metals	
152308		52	53	Gold, Base Metals, Other metals	
152309		53	54	Gold, Base Metals, Other metals	
152310		54	55	Gold, Base Metals, Other metals	
152311		55	56	Gold, Base Metals, Other metals	
152312		56	57	Gold, Base Metals, Other metals	
152313		83	84	Gold, Base Metals, Other metals	
152314		84	85	Gold, Base Metals, Other metals	
152315		85	86	Gold, Base Metals, Other metals	
152316		98	99	Gold, Base Metals, Other metals	
152317		99	100	Gold, Base Metals, Other metals	
152318		100	101	Gold, Base Metals, Other metals	
152319		101	102	Gold, Base Metals, Other metals	
152320		102	103	Gold, Base Metals, Other metals	
152321		103	104	Gold, Base Metals, Other metals	
152322		104	105	Gold, Base Metals, Other metals	
152323		105	106	Gold, Base Metals, Other metals	
152324		106	107	Gold, Base Metals, Other metals	
152325		107	108	Gold, Base Metals, Other metals	
152326		108	109	Gold, Base Metals, Other metals	
152327		109	110	Gold, Base Metals, Other metals	
152328		110	111	Gold, Base Metals, Other metals	
152329		111	112	Gold, Base Metals, Other metals	
152330		112	113	Gold, Base Metals, Other metals	
152331		113	114	Gold, Base Metals, Other metals	
152332		114	115	Gold, Base Metals, Other metals	
152333		115	116	Gold, Base Metals, Other metals	
152334		116	117	Gold, Base Metals, Other metals	
152335		117	118	Gold, Base Metals, Other metals	
152336		118	119	Gold, Base Metals, Other metals	
152337		119	120	Gold, Base Metals, Other metals	
152338		120	121	Gold, Base Metals, Other metals	
152339		121	122	Gold, Base Metals, Other metals	
152340		122	123	Gold, Base Metals, Other metals	
152341		123	124	Gold, Base Metals, Other metals	
152342		124	125	Gold, Base Metals, Other metals	
152343		125	126	Gold, Base Metals, Other metals	
152344		126	127	Gold, Base Metals, Other metals	
152345		127	128	Gold, Base Metals, Other metals	
152346		128	129	Gold, Base Metals, Other metals	
152347		129	130	Gold, Base Metals, Other metals	
152348		130	131	Gold, Base Metals, Other metals	
152349		131	132	Gold, Base Metals, Other metals	
152350		132	133	Gold, Base Metals, Other metals	
152351		133	134	Gold, Base Metals, Other metals	
152352		134	135	Gold, Base Metals, Other metals	
152353		135	136	Gold, Base Metals, Other metals	
152354		136	137	Gold, Base Metals, Other metals	
152355		137	138	Gold, Base Metals, Other metals	

152356		138	139	Gold, Base Metals, Other metals
152357		139	140	Gold, Base Metals, Other metals
152358		140	141	Gold, Base Metals, Other metals
152359		141	142	Gold, Base Metals, Other metals
152360		182	183	Gold, Base Metals, Other metals
152361		183	184	Gold, Base Metals, Other metals
152362		184	185	Gold, Base Metals, Other metals
152363		185	186	Gold, Base Metals, Other metals
152364		186	187	Gold, Base Metals, Other metals
152365		187	188	Gold, Base Metals, Other metals
152366		188	189	Gold, Base Metals, Other metals
152367		189	190	Gold, Base Metals, Other metals
152368		190	191	Gold, Base Metals, Other metals
152369		191	192	Gold, Base Metals, Other metals
152370		192	193	Gold, Base Metals, Other metals
152371		193	194	Gold, Base Metals, Other metals
152372		194	195	Gold, Base Metals, Other metals
152373		195	196	Gold, Base Metals, Other metals
152374		196	197	Gold, Base Metals, Other metals
152375		197	198	Gold, Base Metals, Other metals
152376		198	199	Gold, Base Metals, Other metals
152377		199	200	Gold, Base Metals, Other metals
152378		200	201	Gold, Base Metals, Other metals
152379		201	202	Gold, Base Metals, Other metals
152380		202	203	Gold, Base Metals, Other metals
152381		203	204	Gold, Base Metals, Other metals
152382		204	205	Gold, Base Metals, Other metals
152383		205	206	Gold, Base Metals, Other metals
152384		206	207	Gold, Base Metals, Other metals
152385		207	208	Gold, Base Metals, Other metals
152386		208	209	Gold, Base Metals, Other metals
152387		209	210	Gold, Base Metals, Other metals
152388		210	211	Gold, Base Metals, Other metals
152389		211	212	Gold, Base Metals, Other metals
152390		212	213	Gold, Base Metals, Other metals
152391		213	214	Gold, Base Metals, Other metals
152392		214	215	Gold, Base Metals, Other metals
152393		215	216	Gold, Base Metals, Other metals
152394		216	217	Gold, Base Metals, Other metals
152395		217	218	Gold, Base Metals, Other metals
152396		218	219	Gold, Base Metals, Other metals
152397		219	220	Gold, Base Metals, Other metals
152398		220	221	Gold, Base Metals, Other metals
152399		221	222	Gold, Base Metals, Other metals
152400		222	223	Gold, Base Metals, Other metals
152401		223	224	Gold, Base Metals, Other metals
152402		224	225	Gold, Base Metals, Other metals
152403		225	226	Gold, Base Metals, Other metals
152404		226	227	Gold, Base Metals, Other metals
152405		227	228	Gold, Base Metals, Other metals
152406		228	229	Gold, Base Metals, Other metals
152407		229	230	Gold, Base Metals, Other metals
152408		230	231	Gold, Base Metals, Other metals
152409		231	232	Gold, Base Metals, Other metals
152410		232	233	Gold, Base Metals, Other metals
152411		233	234	Gold, Base Metals, Other metals
152412		234	235	Gold, Base Metals, Other metals
152413		235	236	Gold, Base Metals, Other metals

152414		236	237	Gold, Base Metals, Other metals
152415		237	238	Gold, Base Metals, Other metals
152416		238	239	Gold, Base Metals, Other metals
152417		239	240	Gold, Base Metals, Other metals
152418		240	241	Gold, Base Metals, Other metals
152419		241	242	Gold, Base Metals, Other metals
152420		365	366	Gold, Base Metals, Other metals
152421	Zn/Pb	366	367	Gold, Base Metals, Other metals
152422		367	368	Gold, Base Metals, Other metals
152423		368	369	Gold, Base Metals, Other metals
152424		369	370	Gold, Base Metals, Other metals
152425		370	371	Gold, Base Metals, Other metals
152426		371	372	Gold, Base Metals, Other metals
152427		372	373	Gold, Base Metals, Other metals
152428		373	374	Gold, Base Metals, Other metals
152429		374	375	Gold, Base Metals, Other metals
152430		401	402	Gold, Base Metals, Other metals
152431	Zn/Pb	402	403	Gold, Base Metals, Other metals
152432		403	404	Gold, Base Metals, Other metals
152433		404	405	Gold, Base Metals, Other metals
152434	Cu	405	406	Gold, Base Metals, Other metals
152435		406	407	Gold, Base Metals, Other metals
152901		34	35	Whole Rock and REE
152902		44	45	Whole Rock and REE
152903		64	65	Whole Rock and REE
152904		74	75	Whole Rock and REE
152905		80	81	Whole Rock and REE
152906		94	95	Whole Rock and REE
152907		164	165	Whole Rock and REE
152908		170	171	Whole Rock and REE
152909		175	176	Whole Rock and REE
152910		255	256	Whole Rock and REE
152911		265	266	Whole Rock and REE
152912		277	278	Whole Rock and REE
152913		287	288	Whole Rock and REE
152914		297	298	Whole Rock and REE
152915		307	308	Whole Rock and REE
152916		317	318	Whole Rock and REE
152917		329	330	Whole Rock and REE
152918		339	340	Whole Rock and REE
152919		349	350	Whole Rock and REE
152920		359	360	Whole Rock and REE
152921		377	378	Whole Rock and REE
152922		385	386	Whole Rock and REE
152923		399	400	Whole Rock and REE
152924		410	411	Whole Rock and REE

Lithology				Lithology (cont)			
CATEGORY	CODE	LITHOLOGY	New Lith_ID	CATEGORY	CODE	LITHOLOGY	New Lith_ID
COVER SEQUENCES	CFIL	Undifferentiated fill eg: drill pad/road rubble		INTRUSIVES	IFUND	Felsic undifferentiated intrusive	
	CLOS	Core loss - no lithology			IFGRAD	Granite	
	CAVE	Cavity or old workings			IFGRAD	Granodiorite	
	CASH	Recent ash fall			IFADAM	Adamellite	
	CSOILA	A horizon soil			IFPEG	Pegmatite	
	CSOILB	B horizon soil			IFGA	Intrusive fine grained granite - aplite or microgranite	
	CALUV	Alluvium			IUND	Intrusive intermediate undifferentiated	
	CCOL	Colluvium			IISY	Syenite	
	CELLUV	Elluvium			IID	Diorite (plag dominant, includes porphyry)	
	CAEOL	Aeolian			IIM	Monzonite (typically k-felds 35-65%, includes porphyry)	
	CHRD	Hardpan			IIT	Tonalite (qtz bearing >20% diorite, includes porphyry)	
	CFCT	Ferricrete			IIMDI	monzodiorite (plag rich up to 90%, includes porphyry)	
	CCCT	Calcrete			IIA	Anorthosite	
	CSCT	Silcrete			IMUND	Mafic intrusive - undifferentiated	
	CGOSS	Gossan !			IMGB	Gabbro	
SEDIMENTARY	SUCLAST	sedimentary undifferentiated clastic			IMDL	Dolerite	
	SUCHEM	sedimentary undifferentiated chemical			IMN	Norite	
	SSHLE	shale (includes carbonaceous/graphitic fine layered sediments)			IUUND	Ultramafic intrusive undifferentiated	
	SMDST	mudstone			IUPYRX	Pyroxenite	
	SSILT	siltstone			IUPERID	Peridotite	
	SSAND	sandstone - grain size not measured			IUDUNT	Dunite	
	SCONG	conglomerate - grainsize not measured		TECTONIC	TFBX	Fault breccia	
	SGWAC	greywacke			TCATA	Cataclasite	
	SFSAND	Fine sandstone (0.06-0.25mm)			TMYO	Mylonite	
	SMSAND	Medium sandstone (0.25-0.5mm)			TFG	Fault gouge	
	SCSAND	Coarse sandstone (0.5-2mm)		METAMORPHIC	MUSED	Undifferentiated metasediments	
	SGRANSAND	Granule sandstone - max detrital qtz grains 2-4mm			MSLAT	Slate	
	SGRANCONG	Granule conglomerate >50% 2-4mm grains/clasts			MPHYL	Phyllite	
	SPBSAND	Pebble sandstone - max detrital qtz grains 4-64mm			MSHST	Schist	
	SPBECONG	Pebble conglomerate >50% 4-64mm clasts			MQTZ	Quartzite	
	SCOBCONG	Cobble conglomerate clasts > 64mm commonly present			MHORN	Hornfels	
	SVCONG	Conglomerate with dominant volcanic clasts			MMBL	Marble	
	STILL	Tillite			MGN	Gneiss	
	SARK	arkose			MFGN	Felsic Gneiss	
	SESST	Epiclastic sandstone			MIGN	Intermediate gneiss	
	SBREC	Sedimentary breccia			MMSHST	Mafic schist	
	SCHERT	Chert			MMGN	Mafic Gneiss	
	SDOLM	Dolomite			MMA	Amphibolite	
	SLMST	Limestone			MUMSHST	Ultramafic schist	
	SLMST	Limestone			MUMSERP	Serpentinite	
	SBIFOX	Banded Iron Formation - Oxide Facies		STRONGLY MINERALISED / ALTERED	MSSX	Massive Sulphide ! - only to be used where the rock type is not clear, MSSX should be used primarily as an alteration/mineralisation code	
	SBIFCB	Banded Iron Formation - Carbonate Facies			MSSXC	Massive Sulphide (cumulate)	
	SBIFSX	Banded Iron Formation - Sulphide Facies		OTHER	OSKARN	Skarn - Only to be used where no primary textures are seen and alteration is pervasive and strong, undifferentiated sedimentary or igneous code code should be used as a preference	
	SCOAL	Coal			OVEIN	Vein - only to be used where the whole interval consist of a vein or >60% veining where alteration is so strong that primary textures are not evident, undifferentiated sedimentary or igneous code code should be used as a preference and vein orientations should be stored in structure	
VOLCANICLASTICS	VMDST	volcaniclastic mudstone			OIL	Lamprophyre	
	VSLST	volcaniclastic siltstone			OIK	Kimberlite	
	VSST	volcaniclastic sandstone			OIC	Carbonatite	
	VQXSST	quartz-crystal-rich volcaniclastic sandstone			OIP	Pepperite (describe phases fully)	
	VPSST	Pumecious volcaniclastic sandstone			OHBX	Hydrothermal breccia	
	VLLSST	Lapilli lithic volcaniclastic sandstone (lapilli size lithics)					
	VBLSST	Block lithic volcaniclastic sandstone (block sized lithics)					
	VB	volcanic breccia (undifferentiated origin)					
	VBB	volcanic block breccia (undifferentiated origin)					
	VUND	Undifferentiated volcaniclastic					
LAVAS	LFR	Rhyolite lava					
	LFD	Dacite lava					
	LIT	Trachyte - typically packed feldspars					
	LIA	Andesite lava					
	LMB	Basalt lava					
	LFUND	Undifferentiated felsic lava					
	LIUND	Undifferentiated intermediate lava					
	LMUND	Undifferentiated mafic lava					
	LUUND	Ultramafic lava - undifferentiated					
	LUKOMT	Komatite					

Appendix 5 – Rehabilitation Photos



Photo 1 – Example of silt traps used. Adjacent to drill site DR3 on “River Road” south of Lorinna.



Photo 2 – Slashed vegetation spread at drill site DR2 to aid regeneration with local seed, June 2007.



Photo 3 – Excavator recontoured slope at DR3 drill pad roadside cut, July 2007



Photo 4 – Rehabilitated drill site DR2, late August 2007.



Photo 5 – Drain constructed on Pioneers Road, inspected late August 2007 after heavy rain, note the drain is still effective and has accumulated some silt (background of photo).



Photo 6 – Pioneers Road inspected late August 2007 after heavy rain, note that only weak ruts are developed on the road as this was re-graded by a 20t excavator to improve on the original condition of the road surface which was uneven and eroded due to water running down the road.