

Final Report
for EL31/2004 Firetower East
for the Period 26 November 2004 to 25 November 2015

Author: G Cryan

Date: January 2016

ABSTRACT

EL31/2004 Firetower East is located in central north Tasmania approximately 15km west north-west of the town of Deloraine, and formed the central parts of the Company's Firetower project. The tenement covers some 10 strike kilometres of rocks assigned to the Mt Read Volcanic sequence. The company's main focus was gold mineralisation however other styles of mineralisation are present within the licence area.

Work completed during the 11 year period to 25 November 2015 included acquisition, compilation and review of previous exploration data, soil sampling, rock chip sampling, geological mapping and lithostructural interpretation. Results were considered subdued.

Compilation of previous exploration data highlighted gold and base metal prospectivity of the area, with little previous work focussing on gold.

Over 90 rock chip samples were collected from the tenement area. All samples were submitted for analysis of a broad multi element suite. Results included a maximum of 34ppb Au.

A total of 270 soil samples were collected at 50m intervals along traverses 200m apart at Lobster and Asarco target areas. Bulk soils to 1kg were collected at a depth of around 20cm and were submitted for analysis of a broad multi element suite. Highest results were 44ppb Au, 0.19ppm Ag, 15ppm As, 1.37ppm Bi, 55.8ppm Co, 210ppm Cu, 110ppm Pb, 4.33ppm Sb, 0.37ppm W and 109ppm Zn.

Mapping of the area was completed with lithologies of Proterozoic schist and quartzite, and Cambrian sandstone and conglomerate recorded.

Lithostructural interpretation was carried out over the area covered by the four ELs of the Firetower Project, including EL31/2004, in order to generate

exploration targets. The work outlined several targets within the Firetower East licence.

KEYWORDS

Geology/Mineralisation

Mt Read Volcanics, Gordon Group, Roland Conglomerate, Moina Sandstone,
Gordon Limestone

Soil samples, rock chip samples, mapping, lithostructural interpretation

Minerals

Gold, silver, copper, lead, zinc,

Deposits/Occurrences

Lobster, Asarco, Austamax

COORDINATES

All lat/long co-ordinates in this report refer to the AGD66 Datum

All AMG co-ordinates in this report refer to the AGD66 Datum - Zone55

FILE SUMMARY LIST

File Name	Format	Contents
EL312004_201601_01_report.pdf	pdf	report
EL312004_201601_02_geochem.txt	ASCII tab delimited	soil samples
EL312004_201601_03_geochem.txt	ASCII tab delimited	rock chip samples

SUMMARY OF ACTIVITIES FOR EL31/2004 FIRETOWER EAST FOR THE PERIOD 26 NOVEMBER 2004 to 25 NOVEMBER 2015

- Data Review
- Soil Sampling
- Rock Chip Sampling
- Geological Mapping
- Lithostructural interpretation

CONTENTS

	page
1.0 Introduction	1
2.0 Tenement Details	2
3.0 Location and Access	3
4.0 Geology and Mineralisation	3
5.0 Previous Exploration	7
6.0 Work Carried Out During the Period	8
7.0 Conclusions	11
References	16

FIGURES

Figure 1	Project Location and Regional Geology Map	13
Figure 2	Project Geology	14
Figure 3	Sampling location map	14
Figure 4	1:250,000-scale structural interpretation and regional targets based on satellite and airborne imagery	15

TABLES

Table 1	Tenement Details	2
---------	------------------	---

APPENDICES

Appendix I	Soil Samples
Appendix II	Rock Chip Samples

1.0 Introduction

This report details the exploration activities completed within EL31/2004 during the period 26 September 2004 to 25 November 2015. The lease is located in central north Tasmania adjacent to the town of Deloraine, and formed the eastern-central parts of the Company's Firetower project (Figure 1).

The tenement covers some 10 strike kilometres of rocks assigned to the Mt Read Volcanic sequence. The company's main focus was gold mineralisation however other styles of mineralisation are present within the licence area.

Work completed during the reporting period included acquisition, compilation and review of previous exploration data, soil sampling, rock chip sampling, geological mapping and lithostructural interpretation.

All lat/long co-ordinates in this report refer to the AGD66 Datum. All AMG co-ordinates in this report refer to the AGD66 Datum - Zone55.

2.0 Tenement Details

EL31/2004 Firetower East was applied for by Greatland Pty Ltd during April 2004 and was granted during November 2004 for a period of five years. The tenement initially covered an area of 29 square kilometres. Extensions of the term of the EL were granted annually up to 25 November 2015. Tenement details are shown in Table 1.

Greatland Pty Ltd entered into a farm-in agreement with Unity Mining Ltd (UML) on 12 October 2011 to explore on four granted ELs in the Firetower project area, including EL31/2004 Firetower East. Under the terms of the agreement, UML as manager and operator, were to earn a 51% interest by spending \$2 million within the initial two and a half years. This spend was not reached and the farm-in agreement came to an end in Q2 2015.

Table 1 – Tenement Details

Tenement	Holder	Date Applied	Date Granted	Size
EL31/2004 Firetower East	Greatland Pty Ltd 100%	5 April 2004	26 November 2004	29km ²

3.0 Location and Access

EL31/2004 Firetower East is located 55km west of Launceston and 40km south-southeast of Devonport in central north Tasmania on the boundary of the municipalities of Meander Valley and Kentish. It lies immediately west of the town of Deloraine and formed the eastern-central parts of the Company's Firetower project (Figure 1). The bulk of land within the tenement is private farming land with smaller portions of state forest.

The tenement straddles the Tasmania NW (SK55-20) and Tasmania NE (SK55-21) 1:250,000 map sheets. It falls within the four 1:100,000 map sheets of Mersey (8114), Forth (8115), Meander (8214) and Tamar (8215).

From Launceston, access to the project area is by sealed road to Deloraine then west or northwest via sealed roads into the licence. Local roads and logging tracks provide good access throughout the project area.

4.0 Geology and Mineralisation

The licence area covers some 10 strike kilometres of rocks assigned to the Cambrian Mt Read Volcanics (Figure 2). These Cambrian rocks are highly mineralised and host major polymetallic VHMS deposits, particularly in the west of Tasmania. The Cambrian volcanics and sediments are unconformably overlain by late Cambrian to early Ordovician Gordon Group consisting of siliclastics of the Roland Conglomerate and Moina Sandstone overlain by the Gordon Limestone. The regional and economic geological setting has been detailed in Askins and Baxter (2005).

Gold mineralisation has been well defined at the Firetower prospect located in the adjacent tenement of EL26/2004. Gold and base metal mineralisation, outlined by soil and rock chip sampling, extends east and west of the Firetower prospect for some kilometres.

Regional Geology and Mineralisation

Firetower East lies in the central north of Tasmania within equivalents of the Mt Read Volcanics (Figure 2). These rocks are highly mineralised and host major polymetallic VHMS deposits such as Hellyer and Rosebery, and volcanogenic copper-gold deposits such as Mt Lyell, and the structurally controlled high-grade Henty gold mine.

Regionally, the licence occurs in the Fossey Mountain Trough, an east-west subsidiary of the north-south trending Dundas Trough. The eastern margin of the Dundas Trough contains the Cambrian Mt Read Volcanics, overlain by unconformable to disconformable Cambro-Ordovician siliclastics and limestones. The Fossey Mountain Trough is similarly comprised of Cambrian Volcanics and overlying Cambro-Ordovician siliclastics. Cambrian rocks of the district have been assigned to the Gog Range Greywacke, Minnow Keratophyre and Beulah Formation.

The Gog Range Greywacke, the lowest unit, is a 600m thick sequence of mixed siliclastic and volcanoclastic rocks. The basal member is typically conglomeratic with rounded clasts of chert and quartzite interbedded with argillaceous and vitric siltstones, grading up into greywackes and siltstones. The acid volcanic content increases toward the top of the sequence.

Overlying the Gog Range Greywacke are andesitic volcanics of the Beulah Formation. Andesitic lavas, lava breccias and associated volcanoclastics are commonly composed of massive to vesicular feldspar-augite phyric rocks, with chlorite altered ferromagnesian minerals.

Also overlying the Gog Range Greywacke, within the project area, is the Minnow Keratophyre. This is a massive unit of quartz-feldspar porphyry with a fine-grained matrix. Quartz and feldspar phenocrysts are large (>4mm) and comprise 5-10% of the rock. Dating of the keratophyre yielded an age of approximately 500Ma.

The Cambrian volcanics and sediments are unconformably overlain by late Cambrian to early Ordovician Gordon Group consisting of siliclastics of the Roland Conglomerate and Moina Sandstone overlain by the Gordon Limestone. The Roland Conglomerate is a white to pink pebble-cobble conglomerate while the overlying Moina Sandstone is a pink to white, fine to medium grained quartz sandstone. Basal conglomerates of mixed siliclastic-volcaniclastic derivation are locally present, particularly at the andesite-conglomerate contact.

The Mt Read Volcanic-Gordon Group contact at Firetower suggests there was a significant tectonic event, involving overturned to recumbent folding of the southern margin of the volcanics followed by significant uplift and erosion prior to deposition of the Gordon Group. This is evident in a reversal of facing between the Gog Range Greywacke and the unconformably overlying Roland Conglomerate.

The next major deformation event during the Devonian resulted in widespread folding and faulting with numerous reverse and thrust faults. Faulting is common along lithological contacts and unconformities, thus surfaces have potentially been reactivated during deformation.

Stocks of diorite and monzodiorite were emplaced into the volcanic sequence during the late Cambrian. The intrusives are typically plagioclase-amphibole-minor quartz diorites, quartz-gabbro norites and biotite-hornblende-quartz monzodiorite. The 'Beulah granite' (monzodiorite) shows an age of approximately 495Ma.

Project Geology, Alteration and Mineralisation

EL 31/2004 Firetower East covers approximately 10km strike length of the Middle Cambrian volcanic, volcanoclastic and siliclastic sequence stratigraphy. These rocks are located in the keel of a synclinal structure and have been mapped in intermittent outcrop over a total width of 2 – 4 km within the licence area.

A basaltic lava, lava breccia and volcanoclastic sequence extends along the southeastern perimeter of the licence between the Mersey River and Lobster Rivulet. These mafic rocks possibly correlate to the Motton Spilite. The overlying Gog Range Greywacke comprises volcanoclastic and siliciclastic sediments, pumiceous rhyolitic volcanoclastics and localised andesitic lavas and volcanoclastics. The Firetower stockwork vein gold deposit occurs further along strike to the west within rhyolitic volcanoclastics and associated intrusives of the Gog Range Greywacke.

Sandstone and siliceous conglomerate of the Late Cambrian-Early Ordovician Owen Group (Roland Conglomerate) form the steep ridge lines of the eastern part of the Gog Range through to Gardners Ridge and the Magog. Further to the north and east, these siliciclastic rocks outcrop prominently at Conglomerate Hill and Punches Terror. Debris flow lobes derived from the Roland Conglomerate frequently obscure the older Palaeozoic rocks.

Tertiary basalt locally caps the Cambrian strata in the central northern section of the licence. Thin deposits of cobble to boulder conglomerate are preserved in dissected river terraces along the edges of the Mersey River floodplain.

The only recorded mineral occurrences within EL 31/2004 Firetower East are prospecting pits in the Lobster Rivulet area and several anomalous stream sediment sites. Main interest in this tenement was the potential for along strike extensions of the prospective Cambrian volcanic and volcanoclastic stratigraphy which hosts gold mineralisation at the Firetower deposit further to the west.

Alteration in the Firetower deposit area is localized in a 250-500 m wide zone lying sub-parallel to the contact between the Cambrian volcanic sequences and the overlying Roland Conglomerate. Dominant alteration is a pervasive silica+sericite+carbonate+pyrite assemblage. Gold mineralization is associated with fine quartz and carbonate vein stockworks, with 2-5% sulphides (mainly pyrite, with trace-minor chalcopyrite, sphalerite, galena and

arsenopyrite/glaucodot). Tungsten mineralisation, occurring as scheelite, is also associated with the carbonate veining.

5.0 Previous Exploration

The project area was sporadically held by Asarco, Amax and Outokumpu between 1973 and 1991. These companies completed BLEG and 80mesh drainage sampling that outlined a number of gold and basemetal anomalies in the project area with similar geochemical signatures, geology and structural setting to those at Firetower in the adjacent licence areas of EL26/2004.

The Firetower East project area was first explored by Asarco Australia Pty Ltd ('Asarco') for VMS style base metals in 1973. Their initial work program involved regional stream sediment sampling and geological reconnaissance which was successful in outlining a number of targets that included a weak base metal signature. However, no samples were analysed for gold. In 1976, CRA Exploration Pty Ltd (CRAE) entered into joint venture with Asarco to continue base metal exploration.

Asarco and CRAE's main focus was exploration for volcanogenic basemetal mineralisation; consequently very few gold analyses were made until late in the tenure period when a sparse program of drainage sampling was implemented. Asarco and CRAE relinquished the ground in 1988.

Amax carried out regional stream sediment sampling to relocate and confirm anomalies re-interpreted from previous exploration activities in the mid-1980s. They also carried out geological mapping at 1:25,000 scale over selected parts of the licence and an airborne EM survey over the region. They recommended but did not carry out follow up ground geophysics and subsequent drilling on anomalies.

Exploration Targets

The Austamax (West Mersey) Prospect was considered by Amax and also Outokumpu, (1991) to be related to silicification and weak vein-style mineralisation of local breccia/shear zones with little continuity. Best rock chip grades were 900 ppm Pb, 800 ppm Zn, 25 ppm Cu, 3.2 ppm Ag and 50 ppm As, Au was below detection (sample no. A6492). Although stream sediment gold samples located the anomaly, few gold rock chip assays were located over the prospect. Outokumpu should have assayed for gold but none can be located in the reported rock chipping.

In 1988 Cyprus intended to undertake gold exploration at Lobsters Rivulet and Gregory's Road Prospect, but appear not to have completed this work (Poltock, 1988).

Asarco Prospect – as is the case for the Austamax prospect, the Asarco prospect was outlined by regional drainage samples collected in the 1970s and 1980s and shows gold and base metal anomalism draining an area of 1km x 500m. No follow-up work was carried out.

6.0 Work Carried Out During the Period

Work completed during the reporting period included acquisition, compilation and review of previous exploration data, soil sampling, rock chip sampling, geological mapping and lithostructural interpretation.

Acquisition, Compilation and Review of Previous Exploration Data

A review of previous exploration data was completed during the period. Details are presented in Section 5.0 above.

Previous exploration data were compiled into digital data sets comprising geology, topography, surface geochemistry, surface geophysics and drilling

were available. Each data set was assembled and validated before integration into standard file formats for GIS.

Soil Sampling

A total of 270 soil samples were collected during the period. Samples were collected from the Lobster and Asarco West areas.

Samples were collected along traverses 200m apart. Samples were collected every 50m along each traverse. Material was taken from a depth of around 150mm, and coarse screened to -10mm; approximately 2kg of -10mm material was collected at each site.

At the Lobster area, 120 samples were initially collected along seven traverses. A further 65 samples were collected to extend the soil coverage area. At the Asarco West area, 85 samples were collected.

All samples were sent to Genalysis Laboratories in Adelaide/Perth for screening to -180micron (-80mesh) then analysis of Au, Ag, As, Bi, Co, Cu, Pb, Sb, W and Zn to detection limits of 0.0001, 0.05, 1, 0.01, 0.1, 1, 1, 0.02, 0.05 and 1ppm respectively. Gold analysis was by Aqua Regia digest with an enhanced sensitivity AAS read (lab code B/EETA). Cu and Zn were by Aqua Regia digest with an AAS read (lab code B/AAS) while all other elements were by Aqua Regia digest with a mass spectrometry read (lab code B/MS).

Highest results were 44ppb Au, 0.19ppm Ag, 15ppm As, 1.37ppm Bi, 55.8ppm Co, 210ppm Cu, 110ppm Pb, 4.33ppm Sb, 0.37ppm W and 109ppm Zn. All sample results are presented in Appendix I and locations are shown in Figures 3. Soil sample results were considered subdued.

Rock Chip Sampling

A total of 92 rock chip samples were collected from the prospect during the period.

A total of 92 rock chip samples were collected from the prospect during the period. A small number of reconnaissance rock chip samples were sporadically collected by the company from various parts of the tenement along with samples taken during mapping and as follow-up on soil sampling.

Samples were between 1kg and 2kg and all were sent to Genalysis Laboratories in Adelaide/Perth for analysis of Au, Ag, As, Bi, Co, Cu, Pb, Sb, W and Zn to detection limits of 0.0001, 0.05, 1, 0.01, 0.1, 1, 1, 0.02, 0.05 and 1ppm respectively. Gold analysis was by Aqua Regia digest with an enhanced sensitivity AAS read (lab code B/EETA). Cu and Zn were by Aqua Regia digest with an AAS read (lab code B/AAS) while all other elements were by Aqua Regia digest with a mass spectrometry read (lab code B/MS).

Highest results were 3.4ppb Au, 0.01ppm Ag, 38ppm As, 0.57ppm Bi, 45.3ppm Co, 226ppm Cu, 44ppm Pb, 1.74ppm Sb, 0.01ppm W and 147ppm Zn. All sample results are presented in Appendix II and locations are shown in Figure 3. Rock chip results were considered subdued.

Geological mapping

Geological mapping of the Lobster area was completed. The mapping identified a sequence of dolerites and basalts with overlying conglomerates, quartzites and sandstones. Schist, thought to be derived from Cambrian sediments and not previously identified in the area was also mapped. The location of the area covered by mapping is shown in Figure 3.

Lithostructural Interpretation

Work completed during the report period consisted of a litho-structural interpretation of the area covered by the four ELs of the Firetower Project with the aim of generating exploration targets.

Figure 4 shows the structural interpretation of the region and targets generated from this work. Digital datasets used in the interpretation included

regional airborne magnetics imagery and 1:25,000 scale geological data. These datasets were accessed and downloaded from the Mineral Resources Tasmania website. High resolution QuickBird satellite imagery, purchased by UML from Private Forests Tasmania was also used in the study.

The litho-structural study outlined several targets within the EL 31/2004 Firetower East area. The most promising of these is located in the far western section of the tenement (near the western boundary) along strike from the known gold mineralisation at Firetower deposit and on the flanks of a magnetic high. Complete imagery for the tenement areas, with additional regional coverage, was acquired. Film based colour aerial photography, at 1:30,000 scale, was flown over the Gog Range JV tenements in March-April 2012 by Information and Land Services, DPIPWE. GIS ready imagery was supplied as full and half resolution mosaics, geo-referenced and in ECW format, at 0.45 m and 0.9 m pixel size respectively and accuracy in the order of +/-5 m.

7.0 Conclusions

EL31/2004 Firetower East is located in central north Tasmania adjacent to the town of Deloraine, and formed the central part of the Company's Firetower project.

The tenement covers some 10 strike kilometres of rocks assigned to the Mt Read Volcanic sequence. The company's main focus was gold mineralisation however other styles of mineralisation are present within the licence area.

Work completed during the 11 year period to 25 November 2015 included acquisition, compilation and review of previous exploration data, soil sampling, rock chip sampling, geological mapping and lithostructural interpretation.

Soil sampling at two areas; Lobster and Asarco West; was carried out with the Lobster area extended during a following-up programme. Results from the initial programme at Asarco and follow-up programme at Lobster were considered subdued and not significant.

Rock chip sampling produced a maximum sample value of 3.4ppb Au from over 90 samples collected across the licence.

Geological mapping of the Lobster area was completed, identifying a sequence of dolerites and basalts with overlying conglomerates, quartzites and sandstones. Schist, thought to be derived from Cambrian sediments and not previously identified in the area was also mapped.

Lithostructural interpretation covering the four ELs of the Firetower Project outlined several targets within the licences. A helicopter borne magnetic and radiometric survey outlined a northwest – southeast trending magnetic high which is semi-continuous through the central section of the tenement.

Overall, prospectivity of the Cambrian volcanic and volcanoclastic stratigraphy in the EL 31/2004 area appears to be low compared to target areas to the west of the licence area.

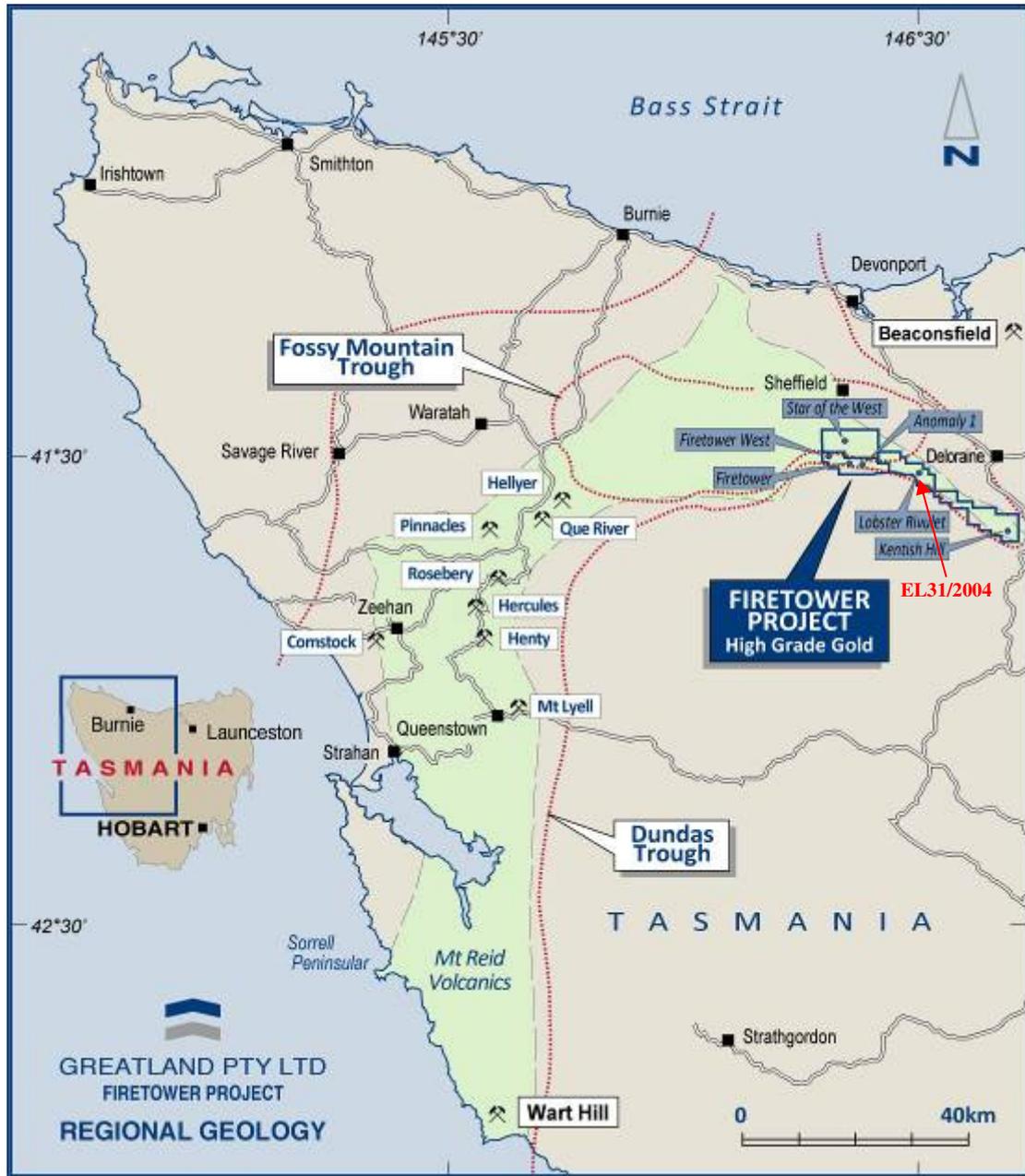


Figure 1: Project location and regional geology map

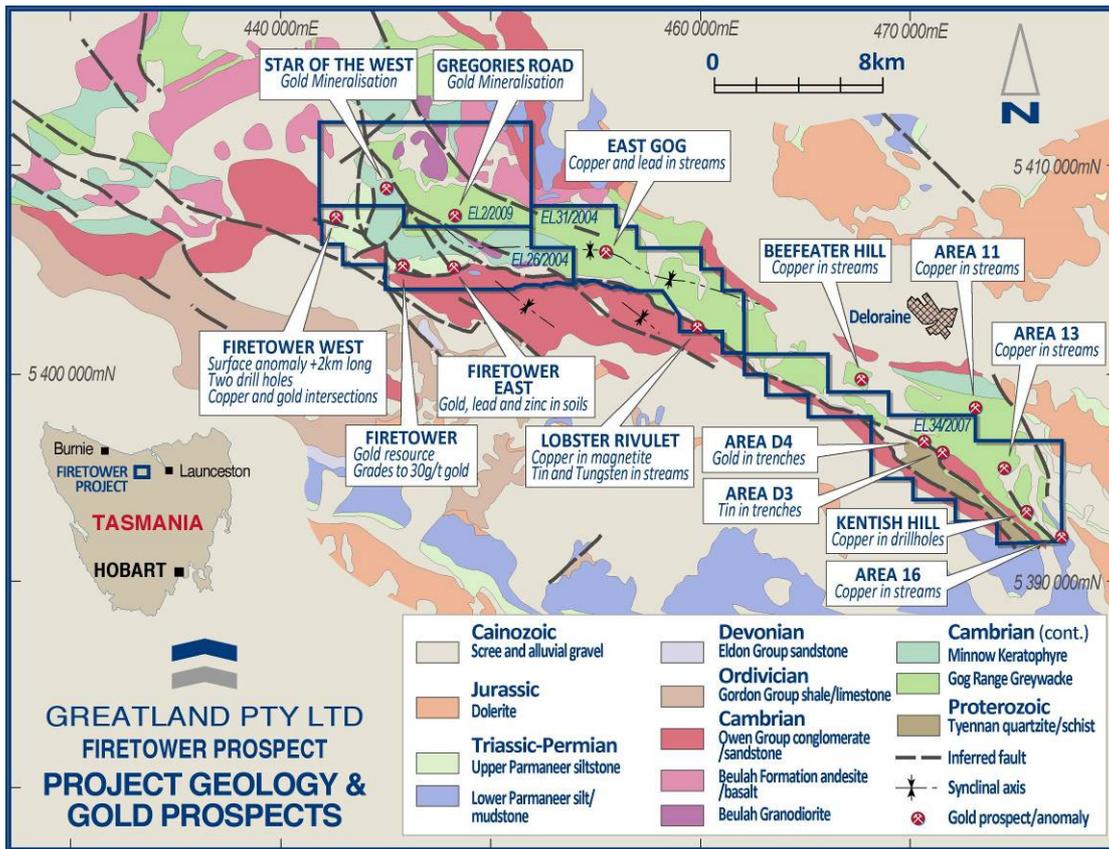


Figure 2: Project geology

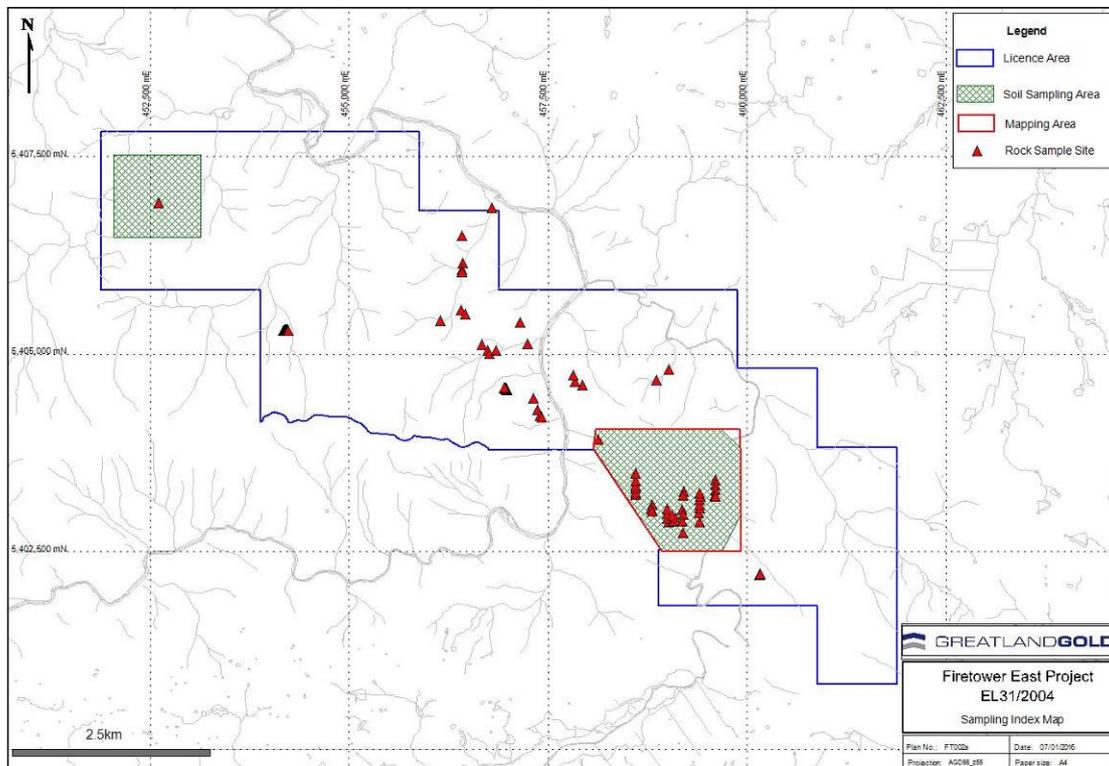


Figure 3: Sampling location map

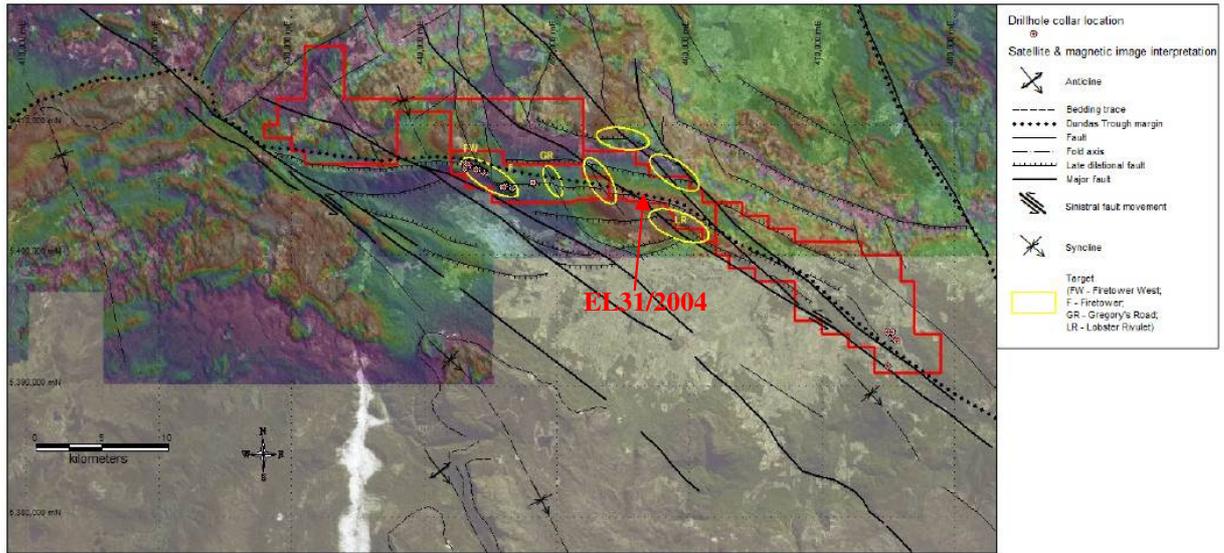


Figure 4: 1:250,000-scale structural interpretation and regional targets based on satellite and airborne imagery

References

- Askins, P.W. and Baxter, C., 2005. Annual Report for E26/2004 and E31/2004 for the Period to 26 November 2004 to 25 November 2005. Greatland Pty Ltd, p22. (unpublished)
- Banks, M. R. 1962. Ordovician System. In Spry, A.H. and Banks, M. R. (eds.), The Geology of Tasmania. Journal of the Geological Society of Australia, Vol. 9, No. 2, p147-176.
- Barker, R.G., 1975. Report for the Year Ending 15 March 1975 for E7/73 Paradise. Asarco Australia Pty Ltd, p2. (unpublished)
- Baxter, C., 2008. Annual Report for EL26/2004 for the Period to 26 November 2007 to 25 November 2008. Greatland Pty Ltd, p9. (unpublished)
- Baxter, C., 2009. Annual Report for EL26/2004 for the Period to 26 November 2008 to 25 November 2009. Greatland Pty Ltd, p5. (unpublished)
- Baxter, C., 2010. Annual Report for EL26/2004 for the Period to 26 November 2009 to 25 November 2010. Greatland Pty Ltd, p5. (unpublished)
- Brown, A.V., 1989. Eo-Cambrian – Cambrian. In, Burrett, S.F. and Martin, E.L. (Eds.), Geology and Mineral Resources of Tasmania. Geological Society of Australia, Special Publication 15, p47-74.
- Callaghan, T., 2001. Geology and Host-Rock Alteration of the Henty and Mount Julia Gold Deposits, Western Tasmania. Economic Geology, Vol. 96, No. 5, p1073-1088.
- Callaghan, T., 2002. Annual Report for E12/2001 Firetower for the Period 1 September 2001 to 31 August 2002. Auriongold Ltd, p26. (unpublished)

- Callaghan, T., Dunham, S. and Edgar, W., 1998. Henty Gold Deposit. In, Berkman, D.A. and Mackenzie, D.H. (Eds.), *Geology of Australian and Papua New Guinean Mineral Deposits*, Australasian Institute of Mining and Metallurgy, Monograph 22, p467-472.
- Close, R.J., 2000. Annual Report for E25/98 Mt Roland for the Period 1 February 1999 to 30 April 2000. Sirocco Resources NL, p17 (unpublished)
- Dare, T., 1998. Annual Report for E10/88 Gowrie Park for the Period August 1997 to July 1998. Plutonic Operations Ltd, p7. (unpublished)
- Denwer, K. and McNeill, A., 2001. Annual Report for E13/2000 Paradise for the Period 9 November 2000 to 8 November 2001. Pasminco Exploration Pty Ltd, p21. (unpublished)
- Evans, D.A., 2013. EL31/2004 Firetower East, Annual Report for Period 26 November 2012 to 25 November 2013. Unity Mining Ltd, p17. Unpublished Company Report to Mineral Resources Tasmania.
- Herrmann, W., 1991. Annual Report to 3/8/91 EL16/90, Deloraine. Outokumpu Exploration Australia Pty Ltd, p10. [TCR91-3277]
- Jennings, I.B., 1979. Geological Survey Explanatory Report. Geological Atlas 1 Mile Series, Zone 7, Sheet 37, Sheffield. Department of Mines Tasmania, p37.
- Jennings, I.B., MacCleod, W.N., Burns, K.L., Mayne, S.J., Robinson, R.G. 1959. Geological Atlas 1 Mile Series, Zone 7, Sheet 37, Sheffield. Department of Mines Tasmania, p43.
- Jones, P., 1989. Progress Report on Exploration Activities for E10/88 Gowrie Park for the Period 22 August 1988 to 22 July 1989. Noranda Pty Ltd, p41. (unpublished)

Jones, P., 1990. Progress Report on Exploration Activities for E10/88 Gowrie Park for the Period 22 August 1989 to 22 July 1990. Noranda Pty Ltd, p40. (unpublished)

Jones, P., 1991. Progress Report on Exploration Activities for E10/88 Gowrie Park for the Period 22 August 1990 to 22 July 1991. Noranda Pty Ltd, p41. (unpublished)

JORC, 2004. Australasian Code for Reporting of Exploration Results, Mineral Resources and Ore Reserves. Joint Ore Reserves Committee of the Australasian Institute of Mining and Metallurgy, Australian Institute of Geoscientists and Minerals Council of Australia, p20.

Kitto, J.; Morrison, K. 2008. First Annual Report EL43/2006 Gowrie Park Project For Period 8 March 2007 To 7 March 2008. Newcrest Mining Limited. (unpublished)

Lorrigan, A; Baxter, C. 2011. Annual Report For EL31/2004 Firetower East For The Period 26 November 2010 To 25 November 2011. Unity Mining Ltd., p15 (unpublished)

Lorrigan, A. N.; Evans, D. A. 2012. Gog Range Joint Venture EL 31/2004 Firetower East Annual Report for Period 26 November 2011 to 25 November 2012. Unity Mining Ltd., p12 (unpublished)

McClenaghan, M. P.; Green, D. C.; Seymour, D. B.; Brown, A. V.; Vicary, M. J. (compilers) 2008. Digital Geological Atlas 1:25,000 Scale Series. Sheet 4440. Gog. Mineral Resources Tasmania.

McLean, G. and Baxter, C., 2006. Annual Report for E26/2004 and E31/2004 for the Period to 26 November 2005 to 25 November 2006. Greatland Pty Ltd, p22. (unpublished)

- McLean, G., 2007. Annual Report for E26/2004 and E31/2004 for the Period to 26 November 2006 to 25 November 2007. Greatland Pty Ltd, p35. (unpublished)
- Noldart, A.J. and Threader, V.M., 1965. Gold Deposits of Tasmania. In, McAndrew, J. and Madigan, R.T. (Eds.), Geology of Australian Ore Deposits, Eighth Commonwealth Mining and Metallurgical Congress, Australasian Institute of Mining and Metallurgy, p518-521.
- Poltock, R. A. 2002. Western Tasmania Regional Minerals Program Ground Truthing Aeromagnetic and Radiometric Features, Northern Tasmania. Record Geological Survey Tasmania 2002/20.
- Stewart, J.I., 1998. Geochemical and Fractal Structural Studies in the Discovery of the Trilogy Au-Cu (Pb-Zn-Ag) Deposit. AngloAmerican plc (Mincorco), p12 (unpublished)
- Stewart, J.I., 1998. Regional Geochemical Orientation Studies with Partial Leach Geochemistry in the SW Yilgarn. Homestake Gold Australia Ltd, p20 (unpublished)
- Vicary, M., 2003. Final Report for E12/2001 Firetower for the Period 1 September 2002 to 27 May 2003. Auriongold Ltd, p12 (unpublished)
- Vivian, R.M., 1984. Annual Report on Exploration Activities for E49/82 Beula for the Period 30 August 1983 to 29 August 1984. Austamax Resources Ltd, p31 (unpublished)
- Williamson, H.C., 1975. Progress Report on the Firetower Project E7/73 Paradise. Asarco Australia Pty Ltd, p3 (unpublished)

APPENDIX I

Soil Samples

H0002 Version 3
 H0003 Date_generated 06-Jan-16
 H0004 Reporting_period_end_date 25-Nov-15
 H0005 State TAS
 H0100 Tenement_no/Combined_rept_no. EL31/2004
 H0101 Tenement_holder Greatland Pty Ltd
 H0102 Project_name Firetower
 H0106 Tenement_operator Greatland Pty Ltd
 H0150 250K_map_sheet_number SK55-20, SKK55-21
 H0151 100K_map_sheet_number 8114 8115 8214 8215
 H0152 50K_map_sheet_number
 H0153 25K_map_sheet_number
 H0200 Start_date_of_data_acquisition 01-Dec-08
 H0201 End_date_of_data_acquisition 25-Nov-10
 H0202 Data_format SG3
 H0203 Number_of_data_records 65
 H0204 Date_of_metadata_update 06-Jan-16
 H0500 Feature_located Surface location
 H0501 Geodetic_datum AGD66
 H0502 Vertical_datum
 H0503 Projection UTM
 H0531 Projection_zone 55
 H0532 Location_method GPS
 H0533 Surveying_company GregoryProspecting
 H0600 Sample_code soil
 H0601 Sample_type soil
 H0602 Sample_description "-180micron"
 H0700 Sample_preparation_code SSMG
 H0701 Sample_preparation_details Fine pulverise 85% < 75 microns
 H0702 Job_no 1170_0_0912269 904388 906737
 H0800 Assay_code B/EETA B/AAS B/MS
 H0801 Assay_company GENALYSIS
 H0802 Assay_description Aqua regia digest/graphite furnace/atomic absorption spectrometry/mass spectrometry
 H0900 Remarks "-1 indicates below detection -999 indicates no data"
 H1000 Sample_ID Sample_Code

				AGD66E	AGD66N	Au	Ag	As	Bi	Co	Cu	Pb	Sb	W	Zn	
				m	m	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	
							0.1	0.05	1	0.01	0.1	1	1	0.02	0.05	
H1001																
H1002																
H1003																
D	7947	Soil		458200	5403950	0.1	0.16	3	0.17	9	6	65	0.45	-1	38	
D	7948	Soil		458200	5403900	0.3	-1	2	0.07	4.3	5	26	0.3	-1	10	
D	7949	Soil		458200	5403850	0.5	-1	1	0.08	0.9	3	6	0.16	-1	4	
D	7950	Soil		458200	5403800	-1	-1	-1	0.06	0.4	2	1	0.11	-1	1	
D	7951	Soil		458200	5403750	-1	-1	-1	0.01	0.2	2	-1	0.03	-1	-1	
D	7952	Soil		458200	5403700	-1	-1	-1	0.12	1.7	25	4	0.2	-1	11	
D	7953	Soil		458200	5403650	0.6	0.09	10	0.34	23.8	56	6	0.92	-1	41	
D	7961	Soil		458400	5403650	2.5	0.05	5	0.29	11	59	33	0.5	-1	47	
D	7962	Soil		458400	5403700	0.3	-1	1	0.09	2.6	12	30	0.26	-1	12	
D	7963	Soil		458401	5403750	0.3	-1	1	0.07	1.1	7	3	0.27	-1	5	
D	7964	Soil		458400	5403800	0.2	-1	-1	0.03	0.4	2	-1	0.06	-1	4	
D	7965	Soil		458399	5403850	-1	-1	1	0.07	0.3	-1	2	0.17	-1	3	
D	7966	Soil		458400	5403900	0.3	-1	4	0.1	1.3	5	9	0.25	-1	8	
D	7967	Soil		458400	5403950	0.1	0.08	3	0.14	3.7	7	51	0.63	-1	37	
D	7968	Soil		458601	5403900	0.5	0.06	2	0.09	2.8	3	16	0.57	-1	24	
D	7969	Soil		458600	5403850	0.2	-1	2	0.1	2.1	3	17	0.42	-1	17	
D	7970	Soil		458601	5403800	0.3	-1	-1	0.04	0.2	2	1	0.13	-1	2	
D	7971	Soil		458600	5403750	0.2	0.06	2	0.11	6	15	7	0.33	-1	13	
D	7972	Soil		458600	5403700	0.8	0.07	11	0.25	2.6	28	8	1.41	-1	12	
D	7973	Soil		458600	5403650	0.6	-1	1	0.14	3.7	38	8	0.33	-1	12	
D	7974	Soil		458799	5403900	0.3	-1	1	0.1	2.3	13	7	0.31	-1	12	
D	7975	Soil		458800	5403850	-1	-1	-1	0.06	0.6	1	2	0.1	-1	5	
D	7976	Soil		458800	5403800	0.2	-1	1	0.07	0.6	2	3	0.21	-1	5	
D	7977	Soil		458801	5403750	0.4	-1	2	0.06	0.5	2	2	0.19	-1	3	
D	7978	Soil		458800	5403700	-1	-1	-1	0.03	0.2	-1	-1	0.1	-1	-1	
D	7979	Soil		458800	5403650	0.4	-1	2	0.07	0.4	3	2	0.12	-1	3	
D	7980	Soil		459000	5403900	0.2	-1	3	0.1	1.6	6	9	1.03	-1	15	
D	7981	Soil		459001	5403850	0.5	-1	3	0.1	0.7	2	24	0.46	0.07	15	
D	7982	Soil		459000	5403800	0.2	-1	2	0.11	0.5	1	19	0.28	0.05	3	
D	7983	Soil		459000	5403750	0.2	-1	-1	0.02	0.2	2	-1	-1	-1	-1	
D	7984	Soil		459000	5403700	0.2	-1	-1	0.04	0.1	-1	1	-1	-1	-1	
D	7985	Soil		459000	5403650	-1	-1	2	0.06	0.3	1	3	0.09	-1	2	
D	7986	Soil		459200	5403650	0.8	-1	1	0.09	0.5	-1	3	0.19	-1	3	
D	7987	Soil		459200	5403700	0.2	-1	-1	0.06	0.4	-1	2	0.1	-1	2	
D	7988	Soil		459200	5403750	0.1	-1	1	0.06	0.4	1	3	0.07	-1	3	
D	7989	Soil		459200	5403800	0.5	-1	1	0.06	0.6	1	2	0.08	-1	2	
D	7990	Soil		459200	5403850	0.2	-1	3	0.07	1	4	14	0.32	-1	12	
D	7991	Soil		459199	5403900	0.6	0.09	6	0.14	3	16	21	0.86	-1	36	
D	7992	Soil		459400	5403900	0.2	-1	2	0.05	1	4	13	0.11	-1	6	
D	7993	Soil		459400	5403850	0.1	0.19	5	0.08	4.9	8	32	0.49	0.05	34	
D	7994	Soil		459399	5403800	0.4	-1	8	0.15	44.8	6	110	0.52	0.07	18	
D	7995	Soil		459400	5403750	0.3	-1	3	0.17	18.4	6	50	0.29	-1	11	
D	7996	Soil		459401	5403700	-1	-1	3	0.1	0.4	2	7	0.18	-1	3	
D	7997	Soil		459400	5403650	0.3	-1	2	0.06	0.2	-1	4	0.12	-1	-1	
D	7998	Soil		459600	5403650	0.3	-1	1	0.1	0.7	2	7	0.07	-1	4	
D	7999	Soil		459600	5403701	0.2	0.1	4	0.14	5.5	5	48	0.24	-1	16	
D	8000	Soil		459600	5403750	-1	-1	3	0.11	0.4	2	7	0.14	-1	6	
D	8001	Soil		459600	5403800	-1	0.08	3	0.06	0.4	4	6	0.53	-1	13	
D	8002	Soil		459600	5403850	0.7	0.06	2	0.09	5.5	31	28	0.38	-1	50	
D	8003	Soil		459600	5403900	0.2	-1	1	0.06	1	4	4	0.12	-1	7	
D	8004	Soil		459800	5403050	0.3	-1	2	0.07	0.3	2	-1	0.05	-1	3	
D	8005	Soil		459800	5403100	0.1	-1	5	0.13	1	4	7	0.17	-1	9	
D	8006	Soil		459800	5403150	0.2	-1	2	0.06	0.5	2	4	0.07	-1	4	
D	8007	Soil		459801	5403200	-1	-1	-1	0.02	0.2	2	-1	0.02	-1	2	
D	8008	Soil		459805	5403250	0.2	-1	3	0.12	2.2	3	8	0.29	-1	9	
D	8009	Soil		459796	5403305	0.5	0.05	5	0.12	1.6	7	12	0.62	-1	7	
D	8010	Soil		459800	5403350	0.5	-1	3	0.15	2.2	6	8	0.28	-1	12	
D	8011	Soil		459799	5403400	0.4	-1	1	0.05	0.7	2	3	0.08	-1	3	
D	8012	Soil		459795	5403451	0.9	-1	2	0.14	3.4	12	7	0.15	-1	9	
D	8013	Soil		459802	5403500	0.9	-1	3	0.03	0.8	2	2	0.12	-1	5	
D	8014	Soil		459800	5403550	0.5	-1	4	0.05	1.4	4	11	0.1	-1	16	
D	8015	Soil		459801	5403600	0.5	-1	4	0.11	6.8	4	8	0.13	-1	51	
D	8016	Soil		459800	5403650	0.4	-1	2	0.09	2.3	3	24	0.04	-1	53	
D	8017	Soil		459801	5403700	0.6	-1	3	0.05	7.6	6	3	0.12	-1	19	
D	8018	Soil		459807	5403746	1.1	-1	5	0.08	12.3	-1	5	0.14	0.1	-1	
D	7578	Soil		452200	5406600	0.5	-1	-1	0.07	1.7	13	7	0.17	0.12	14	
D	7579	Soil		452250	5406600	0.6	-1	-1	0.1	0.8	6	5	0.07	-1	9	

D	7580	Soil	452300	5406600	-1	-1	-1	0.1	0.7	12	9	0.07	-1	9
D	7581	Soil	452350	5406600	0.3	-1	-1	0.09	0.9	9	5	0.05	-1	9
D	7582	Soil	452400	5406600	0.1	-1	-1	0.06	1.2	4	4	0.11	-1	11
D	7583	Soil	452450	5406600	0.2	-1	-1	0.04	0.8	2	3	0.09	-1	8
D	7584	Soil	452500	5406600	0.5	-1	-1	0.04	0.7	2	3	0.04	-1	8
D	7585	Soil	452550	5406600	0.2	-1	-1	0.05	1.4	5	4	0.05	-1	11
D	7586	Soil	452600	5406600	0.2	-1	-1	0.06	1.1	2	4	0.04	-1	7
D	7587	Soil	452650	5406600	0.7	-1	-1	0.07	1.1	2	5	0.06	-1	8
D	7588	Soil	452700	5406600	0.4	-1	-1	0.28	1.4	3	4	0.11	-1	11
D	7589	Soil	452750	5406600	0.8	-1	1	0.12	3.8	15	3	0.13	-1	13
D	7590	Soil	452800	5406600	0.6	-1	-1	0.14	4	4	4	0.22	-1	12
D	7591	Soil	452850	5406600	1.3	-1	-1	0.08	1.1	2	8	0.12	-1	8
D	7592	Soil	452900	5406600	0.5	-1	-1	0.39	3.8	4	5	0.2	-1	14
D	7593	Soil	452950	5406600	0.9	0.06	2	0.38	2.5	4	6	0.26	-1	15
D	7594	Soil	453000	5406600	0.4	-1	-1	0.12	1	4	4	0.17	-1	6
D	7595	Soil	452200	5406800	0.6	-1	2	0.16	7.5	10	5	0.12	-1	27
D	7596	Soil	452250	5406800	-1	-1	-1	0.1	4.4	7	4	0.13	-1	12
D	7597	Soil	452300	5406800	0.5	-1	-1	0.14	8	3	3	0.15	-1	12
D	7598	Soil	452350	5406800	0.4	-1	-1	0.09	0.9	2	2	0.08	-1	5
D	7599	Soil	452400	5406800	0.2	-1	-1	0.14	4	5	4	0.13	-1	16
D	7600	Soil	452450	5406800	0.3	-1	-1	0.12	2.3	1	3	0.11	-1	10
D	7601	Soil	452500	5406800	-1	0.06	-1	0.08	1.3	2	4	0.13	-1	9
D	7602	Soil	452550	5406800	-1	-1	-1	0.11	1.3	4	5	0.11	-1	9
D	7603	Soil	452600	5406800	0.5	-1	-1	0.07	1.7	2	5	0.13	-1	10
D	7604	Soil	452650	5406800	0.4	0.05	-1	0.18	2.1	4	5	0.12	-1	12
D	7605	Soil	452715	5406800	0.4	-1	1	0.29	3.4	7	8	0.29	-1	23
D	7606	Soil	452750	5406800	0.3	0.09	-1	0.46	4.2	4	8	0.72	-1	25
D	7607	Soil	452800	5406800	0.5	-1	1	0.8	2.7	12	7	0.41	-1	15
D	7608	Soil	452850	5406800	0.1	-1	-1	0.61	2.1	25	4	0.1	-1	12
D	7609	Soil	452900	5406800	0.4	0.05	1	0.99	1.5	8	5	0.16	-1	12
D	7610	Soil	452950	5406800	0.3	0.06	2	0.8	5.5	13	8	0.44	-1	26
D	7611	Soil	453000	5406800	0.4	-1	3	1.37	2.3	10	6	0.37	-1	13
D	7612	Soil	452750	5407000	0.5	0.08	3	0.16	2.6	27	10	4.33	-1	22
D	7613	Soil	453000	5407000	0.5	0.06	2	0.16	16.5	23	8	0.13	-1	34
D	7614	Soil	452950	5407000	0.9	-1	-1	0.14	28	42	15	0.08	-1	47
D	7615	Soil	452900	5407000	0.8	-1	2	0.19	22.7	80	16	0.07	-1	79
D	7616	Soil	452850	5407000	0.5	0.06	2	0.16	22.1	27	29	0.38	-1	89
D	7617	Soil	452800	5407000	0.2	0.1	5	0.18	10.3	37	17	1.23	-1	38
D	7618	Soil	452700	5407000	1.4	0.06	3	0.22	3.7	58	14	2.24	-1	30
D	7619	Soil	452650	5407000	0.8	0.07	4	0.21	2.6	35	13	3.38	-1	29
D	7620	Soil	452600	5407000	0.4	-1	2	0.48	6.1	9	8	0.62	-1	11
D	7621	Soil	452550	5407000	0.3	0.06	2	0.13	6.1	20	6	1.47	-1	44
D	7622	Soil	452500	5407000	0.2	-1	-1	0.25	1.8	4	5	0.56	-1	15
D	7623	Soil	452450	5407000	0.2	-1	1	0.41	3	5	7	0.7	-1	19
D	7624	Soil	452400	5407000	0.4	-1	-1	0.21	4.5	2	4	0.16	-1	9
D	7625	Soil	452350	5407000	1.2	-1	-1	0.22	8.6	4	9	0.21	-1	15
D	7626	Soil	452300	5407000	0.5	-1	-1	0.25	6.9	6	5	0.76	-1	30
D	7627	Soil	452250	5407000	0.4	0.07	1	0.17	3.1	5	6	0.29	-1	13
D	7628	Soil	452200	5407000	0.6	0.05	1	0.64	6	4	6	0.31	-1	18
D	7629	Soil	452650	5407200	0.3	-1	-1	0.05	6.3	5	9	0.22	-1	12
D	7630	Soil	452700	5407200	0.2	-1	-1	0.07	16.2	3	5	0.15	-1	36
D	7631	Soil	452750	5407200	0.6	-1	1	0.11	14.2	3	6	0.2	-1	39
D	7632	Soil	452800	5407200	0.5	0.06	2	0.6	19.3	5	13	0.21	-1	60
D	7633	Soil	452850	5407200	1	-1	1	0.18	10.3	3	11	0.24	-1	45
D	7634	Soil	452900	5407200	0.6	0.06	3	0.61	2.9	16	11	0.27	-1	15
D	7635	Soil	452950	5407200	0.7	0.13	15	0.53	4.4	33	38	0.59	0.06	43
D	7636	Soil	453000	5407211	0.9	0.17	1	0.1	12.1	43	46	0.36	-1	93
D	7637	Soil	452600	5407200	1.3	0.07	3	0.14	17.9	41	29	4.12	-1	85
D	7638	Soil	452550	5407200	0.7	-1	-1	0.09	14.3	5	6	0.42	-1	43
D	7639	Soil	452500	5407200	0.9	-1	2	0.1	5	7	10	1.98	-1	35
D	7640	Soil	452450	5407200	0.8	-1	1	0.43	2.5	12	7	0.83	-1	19
D	7641	Soil	452400	5407200	0.8	-1	2	0.42	3	14	9	1.1	-1	26
D	7642	Soil	452350	5407200	0.6	0.05	-1	0.18	9.2	4	8	0.52	-1	35
D	7643	Soil	452300	5407200	1.1	-1	2	0.19	3.6	7	10	0.28	-1	14
D	7644	Soil	452250	5407200	0.6	-1	1	0.14	5.9	4	10	0.2	-1	26
D	7645	Soil	452200	5407200	1	-1	2	0.27	11	13	11	0.47	-1	32
D	7646	Soil	452200	5407400	0.8	-1	1	0.13	1.8	7	7	0.14	-1	18
D	7647	Soil	452250	5407400	0.9	-1	2	0.2	3.4	10	7	0.71	-1	22
D	7648	Soil	452300	5407400	0.9	-1	-1	0.13	2	3	6	0.47	0.05	15
D	7649	Soil	452350	5407400	0.8	-1	-1	0.1	1.7	5	5	0.43	-1	12
D	7650	Soil	452425	5407425	0.8	-1	-1	0.06	2.9	3	4	0.11	-1	9
D	7651	Soil	452460	5407400	0.7	0.06	1	0.08	6.1	7	8	0.18	-1	17
D	7652	Soil	452500	5407390	0.3	-1	-1	0.05	1.9	4	4	0.11	0.07	20
D	7653	Soil	452570	5407415	0.5	-1	2	0.07	3.3	13	5	0.15	-1	11
D	7654	Soil	452600	5407400	0.7	-1	2	0.06	5.3	14	6	0.14	-1	27
D	7655	Soil	452650	5407400	0.9	-1	2	0.1	2.2	13	3	0.17	-1	13
D	7656	Soil	452700	5407400	1.4	-1	8	0.18	6.6	46	6	0.6	-1	18
D	7657	Soil	452750	5407400	1.4	0.08	3	0.05	9.8	33	5	0.27	0.37	10
D	7658	Soil	452800	5407400	1.2	0.06	6	0.22	5	41	6	0.7	-1	12
D	7659	Soil	452850	5407400	1.5	0.11	14	0.39	42.9	86	9	1.26	-1	22
D	7660	Soil	452900	5407400	1.1	-1	10	0.3	15.9	60	7	0.53	-1	11
D	7661	Soil	452950	5407400	0.7	0.06	8	0.27	5.7	37	8	0.66	-1	9
D	7662	Soil	453000	5407400	1.2	-1	10	0.34	5.5	26	12	0.46	-1	12
D	7701	Soil	458400	5403599	1.2	-1	1	0.14	2	11	6	0.07	-1	25
D	7702	Soil	458401	5403550	0.9	-1	-1	0.15	1.3	8	4	0.09	-1	14
D	7703	Soil	458400	5403500	1.1	-1	1	0.22	4.8	14	8	0.09	-1	44
D	7704	Soil	458399	5403449	2.1	-1	4	0.38	5	29	12	0.28	-1	55
D	7705	Soil	458399	5403401	0.2	-1	-1	0.11	1.2	5	3	0.04	-1	9
D	7706	Soil	458400	5403350	0.4	-1	2	0.22	1	3	3	0.09	-1	6
D	7722	Soil	458600	5403600	44	-1	2	0.08	3.9	72	13	0.1	-1	31
D	7723	Soil	458599	5403550	1.8	-1	1	0.08	2.8	23	10	0.08	-1	55
D	7724	Soil	458600	5403500	12	-1	1	0.07	3.6	51	9	0.11	-1	24
D	7725	Soil	458601	5403450	2.1	-1	2	0.07	3.8	48	13	0.12	-1	25
D	7726	Soil	458600	5403400	11	-1	2	0.08	4	72	11	0.11	-1	32
D	7727	Soil	458601	5403350	2.2	0.05	2	0.08	11.3	46	11	0.11	-1	26
D	7728	Soil	458600	5403299	1.7	-1	2	0.11	4.4	35	10	0.11	-1	31
D	7729	Soil	458600	5403250	6.1	-1	1	0.1	2.9	22	6	0.12	-1	20
D	7730	Soil	458600	5403200	0.2	-1	-1	0.06	1	5	3	0.04	-1	9
D	7731	Soil	458599	5403150	0.5	-1	-1	0.07	1.3	3	3	0.04	-1	7
D	7732	Soil	458600	5403100	0.5	-1	1	0.07	0.6	1	2	0.05	-1	7
D	7733	Soil	458600	5403050	1.1	-1	6	0.22	2.1	4	12	0.28	-1	11
D	7743	Soil	458800	5403600	0.5	0.06	-1	0.05	0.6	2	2	0.07	-1	6
D	7													

D	7747	Soil	458800	5403400	0.4	-1	-1	0.08	1	3	3	0.04	-1	7
D	7748	Soil	458800	5403350	0.6	-1	-1	0.11	1.3	6	6	0.06	-1	7
D	7749	Soil	458800	5403301	0.5	-1	-1	0.06	0.6	2	2	0.06	-1	6
D	7750	Soil	458800	5403250	0.7	-1	-1	0.08	1	4	4	0.08	-1	6
D	7751	Soil	458809	5403191	1.8	-1	-1	0.12	4.6	5	11	0.15	-1	13
D	7752	Soil	458802	5403150	0.4	-1	-1	0.06	0.6	2	1	0.07	-1	5
D	7753	Soil	458799	5403098	0.8	-1	-1	0.04	0.5	2	-1	0.05	-1	15
D	7754	Soil	458801	5403050	3	-1	-1	0.03	0.3	1	-1	-1	-1	5
D	7755	Soil	458800	5403000	2.2	-1	-1	0.02	0.4	2	-1	0.03	-1	3
D	7756	Soil	458800	5402950	0.6	-1	-1	0.01	0.4	2	-1	0.02	-1	5
D	7757	Soil	458799	5402899	0.5	-1	-1	0.02	0.4	2	1	0.05	-1	3
D	7758	Soil	458800	5402850	0.7	-1	-1	-1	0.4	2	-1	0.02	-1	4
D	7759	Soil	458798	5402799	0.4	-1	-1	-1	0.3	2	-1	0.03	-1	2
D	7760	Soil	458800	5402749	0.4	-1	-1	0.02	0.5	1	-1	0.03	-1	6
D	7764	Soil	459000	5403602	1	-1	-1	0.04	0.4	1	2	0.33	-1	7
D	7765	Soil	459000	5403550	2	-1	-1	0.06	0.7	4	2	0.22	-1	7
D	7766	Soil	459001	5403500	1.3	-1	1	0.11	3	16	10	0.23	-1	17
D	7767	Soil	459000	5403450	0.4	-1	-1	0.02	0.5	2	-1	0.02	-1	10
D	7768	Soil	459001	5403400	0.4	-1	-1	0.05	0.6	2	1	0.05	-1	7
D	7769	Soil	459000	5403350	0.9	0.05	-1	0.08	3.9	2	9	0.15	-1	12
D	7770	Soil	459000	5403300	0.5	-1	-1	0.08	2.4	2	6	0.1	-1	7
D	7771	Soil	459000	5403250	2.5	-1	-1	0.12	15.2	8	11	0.14	-1	34
D	7772	Soil	459000	5403200	0.6	-1	-1	0.08	2.5	3	5	0.07	-1	12
D	7773	Soil	459000	5403150	0.5	-1	-1	0.06	2.3	3	3	0.15	-1	8
D	7774	Soil	459001	5403100	0.7	-1	-1	0.08	2.6	3	5	0.17	-1	7
D	7775	Soil	459000	5403051	0.8	-1	-1	0.08	2.5	3	5	0.24	-1	9
D	7776	Soil	459000	5403000	6.9	-1	-1	0.12	9.4	10	8	0.43	-1	18
D	7777	Soil	459000	5402949	6.2	-1	-1	0.15	14.2	26	9	0.76	-1	32
D	7778	Soil	459000	5402900	3.6	-1	-1	0.11	16.1	18	7	0.43	-1	36
D	7779	Soil	459000	5402850	1.5	-1	-1	0.13	7.5	10	11	0.37	-1	19
D	7780	Soil	459000	5402799	0.7	-1	-1	-1	0.5	1	-1	0.06	-1	4
D	7781	Soil	459001	5402750	0.6	-1	-1	-1	0.4	-1	-1	0.03	-1	5
D	7782	Soil	459000	5402699	1	-1	-1	0.03	0.3	1	-1	0.06	-1	8
D	7783	Soil	459000	5402650	0.2	-1	-1	-1	0.4	1	-1	0.04	-1	5
D	7784	Soil	459000	5402601	0.6	-1	-1	-1	0.4	2	-1	0.04	-1	5
D	7785	Soil	459202	5402603	0.4	-1	-1	0.01	0.3	2	-1	-1	-1	5
D	7786	Soil	459200	5402651	0.9	0.1	-1	-1	0.4	2	-1	0.04	-1	7
D	7787	Soil	459200	5402700	0.3	-1	-1	0.02	0.4	1	-1	0.04	-1	5
D	7788	Soil	459200	5402750	4.6	-1	-1	0.13	47.6	94	6	0.55	-1	67
D	7789	Soil	459200	5402800	3.1	0.06	-1	0.16	49.9	99	10	0.61	-1	55
D	7790	Soil	459200	5402850	3.5	0.06	-1	0.15	22.5	93	8	0.71	-1	41
D	7791	Soil	459200	5402900	2.4	-1	-1	0.16	16	67	8	0.39	-1	43
D	7792	Soil	459199	5402950	3.1	-1	-1	0.2	25.4	67	9	0.72	-1	45
D	7793	Soil	459200	5403001	3	-1	-1	0.18	13.5	66	5	0.37	-1	28
D	7794	Soil	459200	5403050	2.5	-1	-1	0.19	13.6	26	8	0.46	-1	30
D	7795	Soil	459200	5403100	2.1	-1	-1	0.14	8.4	16	7	0.19	-1	18
D	7796	Soil	459199	5403149	2.7	-1	-1	0.08	12	21	5	0.23	-1	24
D	7797	Soil	459200	5403200	2.8	0.05	3	0.29	55.8	210	4	0.41	-1	69
D	7798	Soil	459200	5403250	2.7	-1	1	0.2	5.2	64	7	0.28	-1	23
D	7799	Soil	459200	5403300	3	0.06	4	0.28	4.8	39	8	0.45	0.05	28
D	7800	Soil	459200	5403350	1.6	-1	1	0.16	4.2	27	5	0.3	-1	20
D	7801	Soil	459201	5403400	2.2	-1	-1	0.13	2	3	5	0.06	-1	10
D	7802	Soil	459202	5403449	2.3	-1	-1	0.1	3.5	7	6	0.16	-1	13
D	7803	Soil	459200	5403499	0.9	-1	-1	0.08	1.3	2	4	0.23	-1	12
D	7804	Soil	459200	5403550	1.8	-1	4	0.14	6.3	9	7	0.71	-1	15
D	7805	Soil	459200	5403600	3.7	-1	1	0.09	1	3	5	0.21	-1	14
D	7806	Soil	459400	5403601	1.4	-1	3	0.16	0.7	2	7	0.19	-1	8
D	7807	Soil	459400	5403550	1.1	-1	-1	0.04	0.4	1	2	0.06	-1	5
D	7808	Soil	459400	5403500	1.1	-1	2	0.14	0.7	2	5	0.54	-1	6
D	7809	Soil	459399	5403451	1	-1	1	0.09	0.8	3	4	0.26	-1	23
D	7810	Soil	459400	5403400	1.3	-1	2	0.13	0.6	1	3	0.29	0.07	17
D	7811	Soil	459400	5403350	1.8	-1	4	0.12	0.8	5	4	0.34	-1	12
D	7812	Soil	459400	5403300	1.7	-1	9	0.13	0.9	6	3	0.46	-1	21
D	7813	Soil	459400	5403250	1	-1	-1	0.08	1	2	3	0.12	-1	10
D	7814	Soil	459400	5403200	6.5	-1	-1	0.04	0.4	2	-1	0.05	-1	8
D	7815	Soil	459400	5403150	1.7	-1	-1	0.09	2.7	22	5	0.16	-1	19
D	7816	Soil	459400	5403100	5.6	0.06	4	0.24	4.8	51	11	0.31	-1	31
D	7817	Soil	459400	5403050	0.7	-1	-1	0.05	1.2	6	2	0.06	-1	9
D	7818	Soil	459399	5402999	1.2	-1	-1	0.12	8.3	22	7	0.49	-1	25
D	7819	Soil	459400	5402950	2.6	-1	-1	0.13	13.6	45	7	0.15	-1	36
D	7820	Soil	459400	5402900	3.4	0.05	-1	0.07	39.6	155	11	0.15	-1	109
D	7821	Soil	459400	5402850	2.8	-1	1	0.26	22.1	145	18	1.12	-1	84
D	7822	Soil	459400	5402799	2.4	-1	1	0.13	8.3	41	9	0.3	-1	40
D	7823	Soil	459400	5402750	2.7	-1	2	0.24	6.2	60	12	0.51	-1	50
D	7824	Soil	459400	5402700	2.6	-1	2	0.24	13.4	71	16	0.68	-1	97
D	7825	Soil	459400	5402650	1.2	-1	-1	0.06	1.2	5	2	0.06	-1	13
D	7826	Soil	459400	5402600	1.9	-1	-1	0.02	0.5	2	-1	0.03	-1	8
D	7827	Soil	459601	5403602	3.1	0.1	4	0.14	0.8	2	27	0.24	-1	9
D	7828	Soil	459600	5403549	1.5	-1	2	0.1	0.8	1	20	0.14	-1	6
D	7829	Soil	459600	5403500	1	-1	-1	0.04	0.4	2	-1	0.02	-1	4
D	7830	Soil	459600	5403450	2	-1	-1	0.03	0.4	1	-1	0.04	-1	6
D	7831	Soil	459600	5403400	0.7	-1	2	0.07	0.8	2	2	0.17	-1	8
D	7832	Soil	459600	5403350	3.2	-1	1	0.17	9.4	31	6	0.22	-1	19
D	7833	Soil	459600	5403300	1.4	-1	-1	0.13	4.4	20	5	0.24	-1	12
D	7834	Soil	459600	5403252	1.6	-1	-1	0.12	3.1	18	9	0.12	-1	13
D	7835	Soil	459600	5403200	5.7	-1	3	0.21	6.1	21	10	0.22	-1	27
D	7836	Soil	459600	5403151	1.8	-1	1	0.15	0.9	1	7	0.15	-1	9
D	7837	Soil	459600	5403100	0.8	-1	-1	0.1	0.7	1	2	0.09	-1	6
D	7838	Soil	459600	5403050	1.5	-1	5	0.28	1.6	8	8	0.31	-1	9
D	7839	Soil	459599	5402999	1	0.08	2	0.21	1.7	6	7	0.25	-1	10
D	7840	Soil	459600	5402951	0.6	-1	3	0.23	4	22	20	0.32	-1	19
D	7841	Soil	459600	5402900	0.8	-1	1	0.1	1.8	30	4	0.15	-1	16
D	7842	Soil	459600	5402850	1.7	-1	-1	0.11	22.2	58	9	0.23	-1	27
D	7843	Soil	459600	5402800	0.9	-1	-1	0.04	2.9	14	3	0.09	-1	16
D	7844	Soil	459600	5402750	1.2	-1	1	0.11	2.2	30	8	0.25	-1	19
D	7845	Soil	459600	5402700	0.7	-1	-1	0.05	1.5	2	3	0.04	-1	11
D	7846	Soil	459600	5402650	1.8	-1	1	0.07	3.7	4	5	0.08	-1	22
D	7847	Soil	459584	5402600	1.5	-1	2	0.11	10.6	12	10	0.12	-1	38

EOF

APPENDIX II

Rock Chip Samples

H0002 Version 3
H0003 Date_generated 06-Jan-16
H0004 Reporting_period_end_date 25-Nov-15
H0005 State TAS
H0100 Tenement_no/Combined_rept_no. EL31/2004
H0101 Tenement_holder Greatland Pty Ltd
H0102 Project_name Firetower
H0106 Tenement_operator Greatland Pty Ltd
H0150 250K_map_sheet_number SK55-20, SK55-21
H0151 100K_map_sheet_number 8114 8115 8214 8215
H0152 50K_map_sheet_number
H0153 25K_map_sheet_number
H0200 Start_date_of_data_acquisition 04-Mar-07
H0201 End_date_of_data_acquisition 25-Nov-10
H0202 Data_format SG3
H0203 Number_of_data_records 92
H0204 Date_of_metadata_update 06-Jan-16
H0500 Feature_located Surface location
H0501 Geodetic_datum AGD66
H0502 Vertical_datum
H0503 Projection UTM
H0531 Projection_zone 55
H0532 Location_method GPS
H0533 Surveying_company GregoryProspecting
H0600 Sample_code rockchip
H0601 Sample_type rockchip
H0602 Sample_description grab
H0700 Sample_preparation_code SSMG
H0701 Sample_preparation_details Fine pulverise 85% < 75 microns

H0702 Job_no 1170_0_1008676, 1170_0_0703156, , 1170_0_0704635
H0800 Assay_code B/EETA B/AAS B/MS
H0801 Assay_company GENALYSIS
H0802 Assay_description Aqua regia digest/graphite furnace/atomic absorption spectrometry/mass spectrometry
H0900 Remarks "-1 indicates below detection -999 indicates no data"
H1000 Sample_ID Sample_Code

			AGD66E	AGD66N	Au	Ag	As	Bi	Co	Cu	Pb	Sb	W	Zn
			m	m	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
					0.1	0.05	0.01	0.01	0.1	0.1	1	1	0.02	0.05
					B/EETA	B/MS	B/MS	B/MS	B/MS	B/AAS	B/MS	B/MS	B/MS	B/AAS
D	80001	Rockchip	458600	5403226	0.8	-1	-1	0.03	0.3	2	-1	0.04	-1	-1
D	80002	Rockchip	458601	5403258	1.3	-1	2	0.1	0.3	2	-1	0.07	-1	-1
D	80003	Rockchip	458597	5403303	0.9	-1	38	0.09	2.8	6	7	0.1	-1	3
D	80004	Rockchip	458603	5403341	1.9	-1	-1	0.06	4.7	2	-1	0.03	-1	2
D	80005	Rockchip	458599	5403399	1.9	-1	5	0.14	3.6	36	5	0.09	-1	15
D	80006	Rockchip	458595	5403495	2.3	-1	-1	0.03	5.3	41	2	0.02	-1	17
D	80007	Rockchip	458805	5403095	0.8	-1	1	0.04	0.3	2	-1	0.03	-1	-1
D	80008	Rockchip	458796	5403046	0.8	-1	-1	0.02	0.1	1	-1	-1	-1	-1
D	80009	Rockchip	458809	5403010	1	-1	-1	0.02	0.2	2	-1	0.04	-1	-1
D	80010	Rockchip	459012	5402873	3.4	-1	-1	0.33	17	2	5	0.6	-1	24
D	80011	Rockchip	458992	5402923	1.6	-1	-1	0.23	8.5	16	4	0.23	-1	36
D	80012	Rockchip	458998	5402983	1.2	-1	-1	0.07	16.8	24	3	0.48	-1	40
D	80013	Rockchip	458997	5403043	1.5	-1	-1	0.26	6.1	63	7	1.3	-1	11
D	80014	Rockchip	459200	5403260	2	-1	-1	0.39	14.2	71	31	1.74	-1	21
D	80015	Rockchip	459199	5403208	0.9	-1	3	0.57	45.3	226	7	0.3	-1	108
D	80016	Rockchip	459184	5403039	0.9	-1	-1	0.06	20.8	88	4	0.3	-1	35
D	80017	Rockchip	459199	5402969	1.9	-1	-1	0.12	23.1	116	2	0.13	-1	54
D	80018	Rockchip	459181	5402890	1.9	-1	2	0.11	1.6	43	5	0.26	-1	11
D	80019	Rockchip	459192	5402740	2	-1	-1	0.17	26.9	56	44	0.32	-1	42
D	80020	Rockchip	459401	5402873	2.7	-1	-1	0.08	9.6	10	2	0.22	-1	22
D	80021	Rockchip	459397	5402997	0.8	-1	-1	0.34	17	15	7	0.87	-1	21
D	80022	Rockchip	459399	5403060	1.8	-1	7	0.15	0.7	5	3	0.33	-1	-1
D	80023	Rockchip	459400	5403102	1.5	-1	-1	0.04	0.4	1	1	0.07	-1	-1
D	80024	Rockchip	459406	5403157	0.9	-1	-1	0.13	0.4	-1	4	0.07	-1	-1
D	80025	Rockchip	459410	5403202	1.1	-1	-1	0.08	0.7	2	1	0.12	-1	-1
D	80026	Rockchip	459403	5403242	0.8	-1	-1	0.02	1	2	8	0.09	-1	147
D	80027	Rockchip	459598	5403405	0.9	-1	4	0.1	1	3	13	0.25	-1	5
D	80028	Rockchip	459605	5403352	0.9	-1	-1	0.01	0.5	2	1	0.08	-1	2
D	80029	Rockchip	459599	5403286	1.4	-1	2	0.08	3.4	13	1	0.15	-1	14
D	80030	Rockchip	459601	5403205	1.1	-1	2	0.07	0.5	2	6	0.18	-1	1
D	80031	Rockchip	459593	5403208	1.4	-1	-1	0.05	0.2	1	2	0.07	-1	17
D	80032	Rockchip	459597	5403202	0.9	-1	2	0.19	0.3	3	2	0.14	-1	4
D	7145	Rockchip	457150	5405400	-10	-1	-5	-1	-1	53	22	-999	-2	47
D	7171	Rockchip	454172	5405298	-10	-1	6	-1	1	75	39	-999	-2	41
D	7172	Rockchip	454174	5405295	-10	-1	9	-1	1	70	37	-999	-2	84
D	7173	Rockchip	454180	5405302	-10	-1	7	-1	-1	67	27	-999	-2	17
D	7174	Rockchip	454182	5405303	-10	-1	-5	-1	2	76	34	-999	-2	108
D	7175	Rockchip	454188	5405303	-10	-1	15	1	-1	47	43	-999	-2	24
D	7176	Rockchip	454189	5405307	-10	-1	9	1	2	62	53	-999	-2	122
D	7177	Rockchip	454196	5405311	-10	-1	11	-1	1	54	31	-999	-2	61
D	7178	Rockchip	454201	5405308	-10	-1	8	-1	1	70	38	-999	-2	133
D	7179	Rockchip	454205	5405306	-10	-1	6	1	39	71	176	-999	-2	76
D	7180	Rockchip	454209	5405304	-10	-1	8	-1	-1	68	30	-999	-2	69
D	7181	Rockchip	454217	5405312	-10	-1	11	-1	-1	88	37	-999	-2	130
D	7182	Rockchip	454221	5405306	-10	-1	5	-1	-1	52	20	-999	-2	20
D	7183	Rockchip	454225	5405306	-10	-1	11	1	-1	44	20	-999	-2	25
D	7184	Rockchip	454229	5405303	-10	-1	6	1	-1	78	30	-999	-2	36
D	7185	Rockchip	454234	5405303	-10	-1	7	2	-1	43	18	-999	-2	30
D	7186	Rockchip	454240	5405302	-10	-1	-5	-1	-1	63	18	-999	-2	36
D	7187	Rockchip	457312	5404444	-10	-1	36	4	-1	7	6	-999	-2	10
D	7188	Rockchip	457365	5404299	-10	-1	5	-1	-1	3	12	-999	-2	3
D	7189	Rockchip	457400	5404229	-10	-1	14	-1	5	7	13	-999	-2	10
D	7190	Rockchip	457415	5404203	-10	-1	-5	-1	12	4	10	-999	-2	81
D	7191	Rockchip	456982	5404554	-10	-1	-5	-1	-1	2	7	-999	-2	4
D	7192	Rockchip	456979	5404553	-10	-1	13	1	-1	6	10	-999	-2	3
D	7193	Rockchip	456975	5404560	-10	-1	-5	-1	-1	7	13	-999	-2	17
D	7194	Rockchip	456969	5404562	-10	-1	-5	-1	-1	7	17	-999	-2	27
D	7195	Rockchip	456966	5404565	-10	-1	-5	-1	-1	7	11	-999	-2	22
D	7196	Rockchip	456960	5404568	-10	-1	-5	-1	-1	3	8	-999	-2	14
D	7197	Rockchip	456955	5404571	-10	-1	-5	-1	-1	2	9	-999	-2	26
D	7198	Rockchip	456952	5404574	-10	-1	-5	-1	-1	2	6	-999	-2	16
D	7199	Rockchip	456950	5404578	-10	-1	-5	-1	10	3	112	-999	-2	33
D	7250	Rockchip	456670	5405118	-10	-1	6	-1	-1	57	14	-999	-2	21
D	7251	Rockchip	456742	5405048	-10	-1	7	-1	9	79	13	-999	-2	106
D	7252	Rockchip	456758	5405007	-10	-1	6	1	17	44	13	-999	-2	79
D	7253	Rockchip	456849	5405051	-10	-1	6	2	31	86	25	-999	-2	238
D	7254	Rockchip	457237	5405133	-10	-1	8	4	15	56	15	-999	-2	71
D	7313	Rockchip	458857	5404675	-10	-1	21	-1	33	90	12	-10	-2	114
D	7314	Rockchip	459014	5404814	-10	-1	30	-1	28	63	16	-10	-2	80
D	7315	Rockchip	459074	5402884	20	-1	-5	1	21	58	-5	-10	-2	42
D	7316	Rockchip	459101	5402928	10	-1	-5	-1	28	299	-5	-10	-2	47
D	7317	Rockchip	459060	5402959	-10	-1	-5	-1	11	20	6	-10	-2	51
D	7320	Rockchip	460157	5402207	30	-1	-5	-1	10	199	8	-10	-2	12
D	7321	Rockchip	460157	5402207	10	-1	-5	-1	9	81	-5	-10	-2	11
D	7322	Rockchip	460165	5402215	10	-1	-5	-1	11	288	6	-10	-2	10
D	7323	Rockchip	458125	5403920	10	-1	36	-1	2	15	24	-10	-2	33

D	7327	Rockchip	448201	5405245	-10	-1	10	-1	1	56	6	-10	-2	33
D	7330	Rockchip	448217	5405129	-10	-1	9	-1	1	5	19	-10	-2	24
D	7337	Rockchip	448294	5405263	10	-1	7	-1	2	3	-5	-10	-2	29
D	7338	Rockchip	448297	5405227	-10	-1	35	-1	-1	3	14	-10	-2	15
D	7356	Rockchip	456414	5406497	-10	-1	10	-1	-1	65	14	-10	-2	36
D	7357	Rockchip	456791	5406853	-10	-1	10	-1	12	55	12	-10	-2	78
D	7358	Rockchip	456144	5405424	-10	-1	14	-1	19	65	13	-10	-2	85
D	7359	Rockchip	456408	5405565	-10	-1	5	-1	-1	24	48	-10	-2	18
D	7360	Rockchip	456461	5405507	-10	-1	9	-1	1	36	25	-10	-2	17
D	7361	Rockchip	456426	5406158	-10	-1	13	-1	12	63	12	-10	-2	70
D	7362	Rockchip	456419	5406073	-10	-1	10	-1	11	61	11	-10	-2	70
D	7363	Rockchip	456420	5406043	-10	-1	11	1	18	61	15	-10	-2	73
D	7364	Rockchip	457927	5404616	-10	-1	-5	2	117	72	41	-10	-2	14
D	7365	Rockchip	457840	5404651	-10	-1	30	-1	130	85	7	-10	-2	129
D	7366	Rockchip	457814	5404739	-10	-1	13	2	55	71	8	-10	-2	203
D	7433	Rockchip	452604	5406920	220	-0.5	8	-1	28	7	7	-10	-2	105

EOF