Open File Envelope No. 11,243

EL 3420

FRANKTON

ANNUAL REPORTS TO LICENCE EXPIRY/SURRENDER FOR THE PERIOD 16/9/2005 TO 15/9/2009

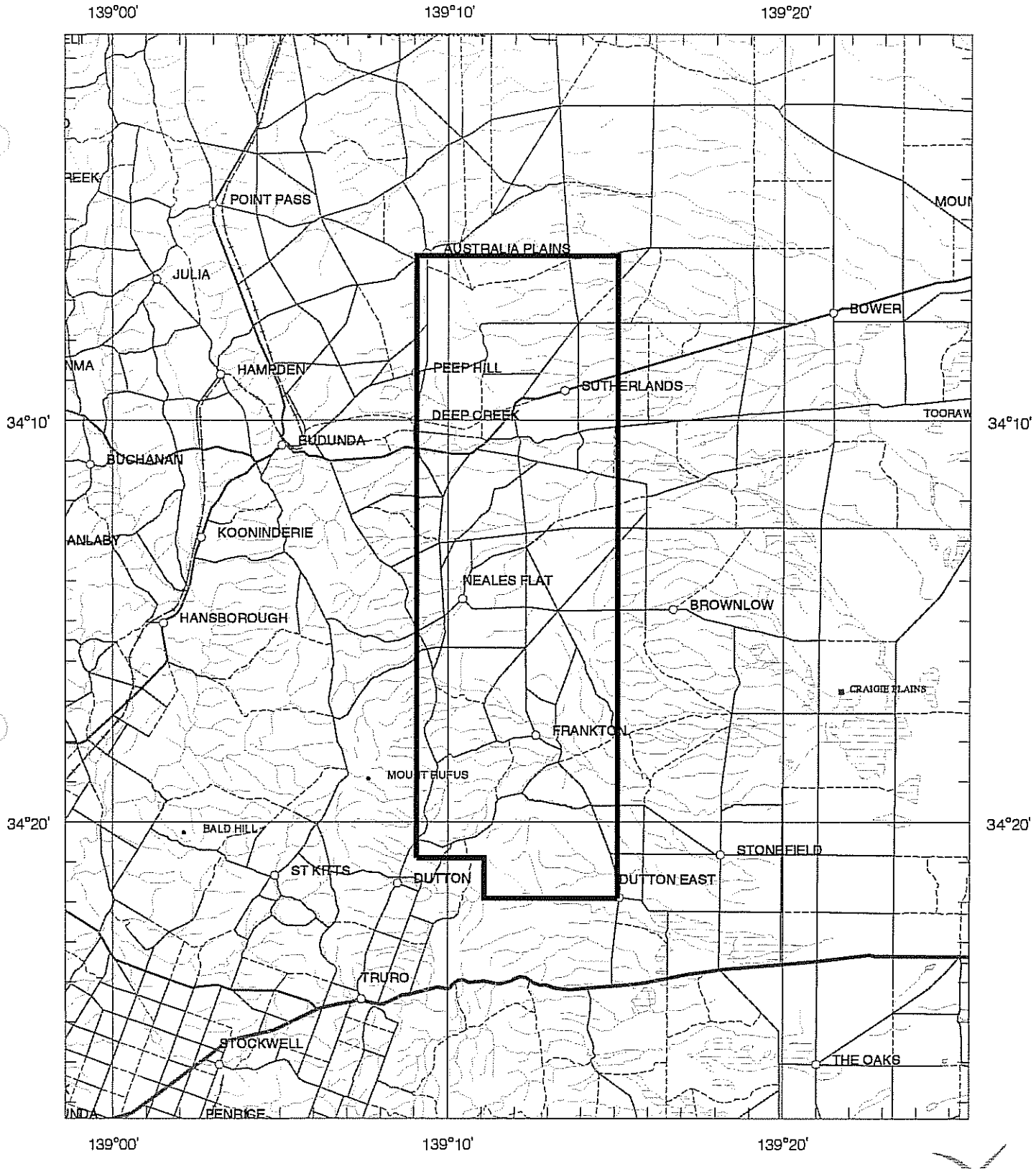
Submitted by
Sedex Minerals Pty Ltd and Lodestone Exploration Ltd
2010

Enquiries: Customer Services Branch
Minerals and Energy Resources
7th Floor
101 Grenfell Street, Adelaide 5000

Telephone: (08) 8463 3000
Facsimile: (08) 8204 1880

Government of South Australia
Primary Industries and Resources SA

SCHEDULE A



SCALE 1: 250 000

KILOMETRES 5 0 5 10 15 20 25 KILOMETRES

LICENCE GRANTED IN : DATUM AGD66

GDA GEOCENTRIC DATUM OF AUSTRALIA

APPLICANT : **SEDEX MINERALS PTY LTD**

FILE REF : **198/05** TYPE : **MINERAL ONLY** AREA : **267** km² (approx.)

1:250000 MAPSHEETS : **ADELAIDE**

LOCALITY : **FRANKTON AREA - Approximately 110 km northeast of Adelaide**

DATE GRANTED : **16-Sep-2005** DATE EXPIRED : **15-Sep-2006** EL NO : **3420**

Sedex Minerals Pty Ltd,
(ACN 113 595 798)
5338 Marine Drive North,
SANCTUARY COVE QLD 4212
25th October 2006.

The Director,
Mineral Resources Group,
Office of Minerals and Energy Resources SA,
5th Floor,
101 Grenfell Street,
ADELAIDE,

Re Annual Report for EL 3420 – Sedex Minerals Pty Ltd

Dear Sir/Madam,

Please find enclosed a hard copy of Sedex Minerals Annual Mineral Exploration Report on EL 3420 to 16th September 2006. to PIRSA.

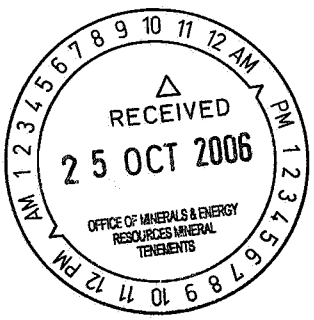
.

An e-mail copy of this report was filed with PIRSA on16-10-06.

Yours Sincerely,

Tim Hopwood,
Director, Sedex Minerals Pty Ltd.

PO Box 6255,
Fairfield Gardens,
QLD 4103.
p. 07 33929512.
Mob. 0401 498 114.



Received 25/10/06

SEDEX MINERALS PTY

LIMITED

KARINYA ZINC EXPLORATION

PROJECT

Annual Technical Report to 16-09-06 for

EL 3420

South Australia

16th September, 2006

SEDEX MINERALS PTY LIMITED

Karinya Zinc Exploration Targets

Title EL 3420 :

Sedex Minerals Pty Ltd was granted Exploration Licence EL 3420 on 16th September 2005, over the area of the Karinya Syncline, centered on Frankton. Frankton is a locality 17 km south-east of the town of Eudunda in the Northern Mount Lofty Ranges, in the vicinity of Adelaide, South Australia, see the area coloured red on Figure 1, page 6.

Infrastructure:

The area lies some 80 km north-east of Adelaide, and is 200km by rail to Port Pirie lead/zinc smelter/refinery complex. There is a well developed infrastructure around the Karinya Syncline area, with villages, sealed roads, rail heads, power and water supply nearby. The area is criss-crossed by gravel roads for access to farms in the area. There appear to be no Aboriginal Heritage issues.

Geological Setting and Targets:

The Karinya Shale unit lies within the Lower Kanmantoo Group, of middle Cambrian age. Lower Kanmantoo Group is host to widespread lead-zinc mineralisation, with a few larger deposits of up to 2 million tones, for example, Aclair Mine, Talisker Mine, Ross Both 1990. A recent discovery by Terramin within the Lower Kanmantoo Group, see www.terramin.com.au, is the Angus Deposit near Strathalbyn comprising 2.8 mT lead-zinc including 1.2 mT @ 20% zinc equivalent.. The Lower Kanmantoo is also host to the 4.05 million tonne Kanmantoo Copper Deposit. The predominant controls on the localisation of ore within the lower Kanmantoo Group appear to be stratigraphic controls combined with complex fault-associated fold structures, Abbot et al 2005.

The Karinya area lies on the complex intersection zone of two major continental scale lineaments defined by regional gravity-topographic data (O'Driscoll, 1981), which would tend to increase prospectivity for larger deposits.

The Karinya Syncline, Figure 2, Hopwood 2006 is defined by the Karinya Shale unit, which is the equivalent of the Nairne Pyrite Member, a thick stratigraphic unit of massive pyrite 5.5 mT. Beneath the Karinya Shale there is a stratigraphic mineralized horizon hosting numerous zinc-lead gossans assaying up to 17% Zn (Rio Tinto Truro EL 2198) see Dyson 1998. There were several follow up drillholes by Rio Tinto. Drillhole RC96TRO27 yielded intersections of 2m @ 8.1% Zn, 2.37% Pb and 33ppm Ag, and 12m @ 1.53% Zn and 0.45% Pb. The core from one of these holes shows epigenetic Zn-Pb mineralisation in pyritic siltstones, with calcareous bands. Of note is the observation by Dr Ian Dyson of a massive basic volcanic agglomerate, which lies below a thin Cu Zn Au gossan in the Karinya Shale.

Target

The aeromagnetics, Figure 3, page 7 Hopwood 2006, shows the magnetic Adelaidean proterozoic basement and the Palmer Fault truncating the Pyritic Karinya Shale at the Frankton Zn, Pb, Ag prospect. In this area west of Frankton, there appear to be a series of parallel north-east trending cross-faults transecting the basement and associated with two magnetic anomalies. This area is a complex anticline – syncline pair developed within the zinc anomalous gossanous Karinya Shale and presents an attractive drill target (fault-bound half-graben structure?). Dodds 1971 noted anomalous Sirotem and IP anomalies in the area. Morris 1991a, 1991b and 1991c, reported on the drilling of a Pb-Zn geochemical anomaly in the area with 1235ppm Pb and 1425ppm Zn, in pyritic, graphitic units of the Karinya shale, together with lamprophyres. The recommendation was for further drilling which has not been followed up.

The association of abundant pyritic black shales, stratigraphic gossans and carbonate-associated stratabound mineralisation, together with the basic volcanic agglomerate is indicative of a classical shale hosted lead-zinc environment similar to that of the major Zn-Pb deposits of Mount Isa (Queensland), Rammelsberg (Meggen, Germany), Sullivan (British Columbia, Canada) and Red Dog (Alaska, USA). See Hopwood 1977.

Investigation of Drill Core from Frankton No 2 and KM 1.

The author investigated Drillhole Frankton 2, drilled by PIRSA, Morris 1991, and Drillhole KM1, drilled by Minefinders Pty Ltd, drilled 6th October 1999, Fardon 1999.
Core from Drillholes Frankton 2 (194.2m) and KM1 (599m) are stored at the PIRSA Core Storage Facility, Glenside, SA.

Drillholes Frankton 2 and KM1 were drilled into the Karinya Shale Member. In core the Karinya Shale Member comprises black shales with frequent laminae of very fine pyrite. Occasionally thin units 2 to 5cm thick of massive fine pyrite are observed. Stringers and veinlets of carbonate and quartz are associated. The pyritic units contain 5% to 20% fine pyrite, and very occasionally, e.g. at 106.2m fine blebs of sphalerite are noted.

The monotonous thick black shale sequence often has 20cm to 3m thick units of white kaolin-altered felspathic (K-spar) quartz siltstone, 0.1mm to 1mm in grainsize, associated with white feldspar-quartz lenses and laminae. These units have been termed exhalites in logging, Fardon 1991, and probably represent felspathic acid tuffs.

Also noteworthy in the core was the frequent occurrence of lamprophyres, phlogopite rich and massive, veined by carbonates, often including clasts of black shale. The abundance of lamprophyres is interpreted as indicative of thin crust, and are probably controlled by the major north-west trending lineament which traverses the area, O'Driscoll 1981.

Investigation of Target Area

Figure 4, page 7, has been prepared from data kindly supplied by Brian Morris of PIRSA, see Morris 1991a, 1991b, and 1991c.

The Frankton Anticline-Syncline pair within the Karinya Shale Member is well exposed in Stockyard Creek and Rocky Creek south of Frankton Homestead. Sparsely scattered gossan float can be found in the same area. The Anticline-Syncline pair plunges approximately 45^0 north indicated by multiple bedding cleavage intersections, and numerous small parasitic folds.

As illustrated in Figure 4, page 7, an airborne magnetic anomaly, reproduced by a string of ground magnetic highs, occupies the core of this plunging anticlinal structure. This string of magnetic highs is associated with lead and zinc geochemical anomalies. This area of the hanging wall of the Frankton Anticlinal hinge region is also accompanied by a series of repeated Sirotem anomalies.

It is believed that this area of anomalous magnetics, anomalous geochemical response, combined with Sirotem anomalies within the hinge of the 45^0 north plunging Karinya anticline is worthy of at least four drillholes. It is advised that an understanding of the structure is taken into account when siting these holes and that the selection of drill sites is not based on drilling geophysical anomalies alone.

It is estimated this drill program will cost $600,000 and should be completed within 2 years.

References:

Abbott, P. Burrt, A. Ferguson, D. Moriarty, K. 2005: "Cambrian mineral resources come of age- the Kanmantoo revival", MESA Journal **36,** January 2005, pp 6-11.

Both, R.A. "Kanmantoo Trough – Geology and Mineral Deposits *in* Geology of the Mineral Deposits of Australia and Papua New Guinea Ed F. E. Hughes) pp 1195 – 1203, Australasian Institute of Mining and Metallurgy: Melbourne

Dodds, L.R.1971: Truro Prospect, South Australia, Final report, for Asarco Aust. Pty Ltd. SADME Open File Envelope 1621 (unpublished).

Dyson, I. A. 1998: "Sequence stratigraphy and base metal mineralisation in the Kanmantoo Group, Karinya Syncline." Geol Soc. Aust. Abstracts, vol 51, pp46-47. Inaugural Sprigg Memorial Symposium, Adelaide 1998.

Fardon R, 1999: Report on Karinya EL 2628 to 31.12.99. Report to PIRSA.

Hopwood, Tim 1977: "Geological environments of ore deposits" Workshop Course77/79, Australian Mineral Foundation.

Hopwood, Tim 2006: Karinya Zinc Exploration Project; EL 3420, South Australia, Six Monthly Report to 16-03-06

Morris, Brian.J. February 1991a: Kanmantoo Trough Geological Investigations, Karinya Syncline; Detailed Geochemical Surveys. SADME Report Book 91/19.

Morris, Brian.J. February 1991b: Kanmantoo Trough Geological Investigations, Karinya Syncline; Detailed Geophysical Surveys. SADME Report Book 91/19.

Morris, B.J. 1991c: Karinya Syncline – Regional Soil Sampling South Australian Department of Mines and Energy Review SA No 158

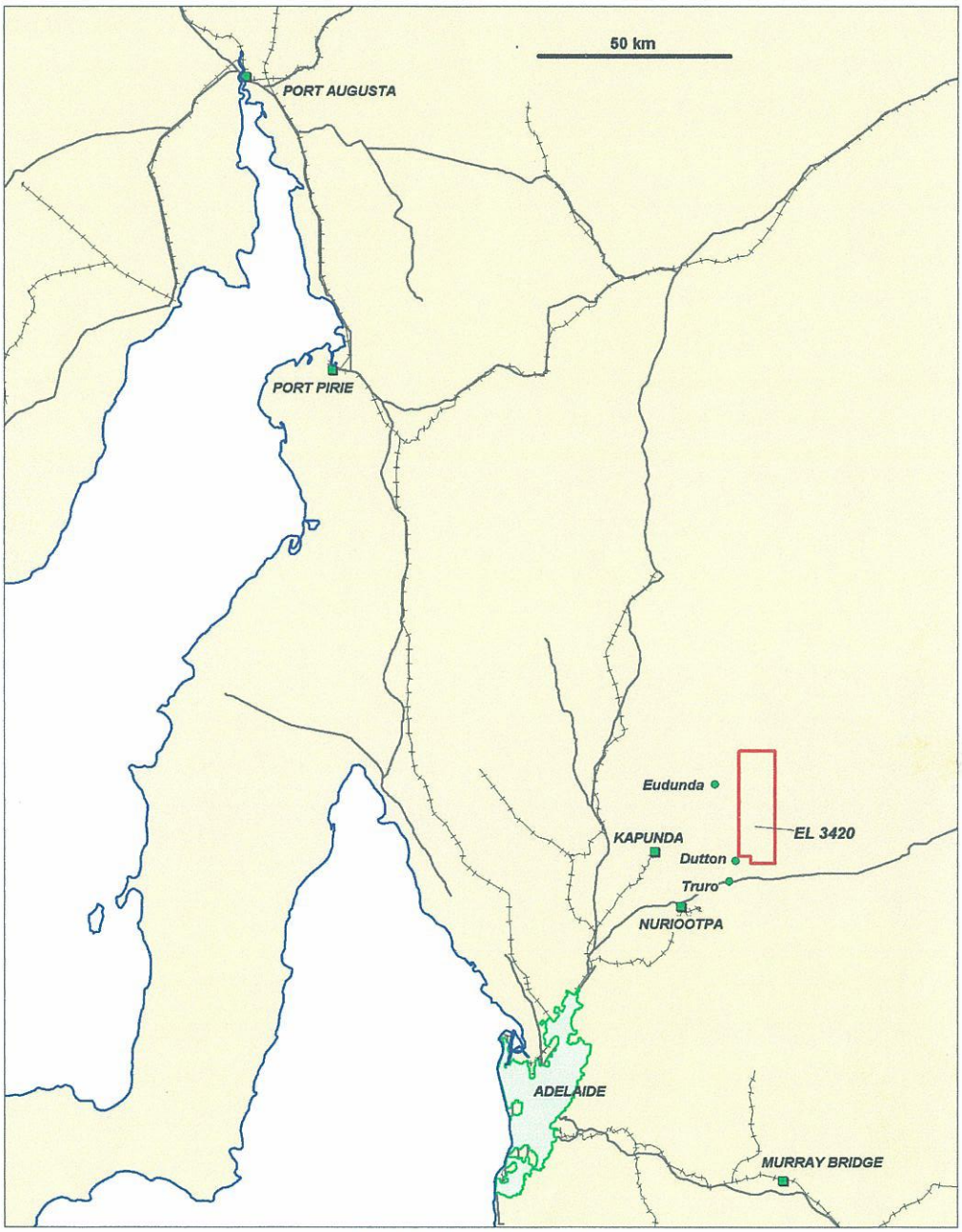
O'Driscoll, E.S.T.1981: "Structural Corridors in Landsat Lineament Interpretation." Mineral Deposits Vol 16, pp 85-101.

Kindly direct any queries of a technical nature to:

Tim Hopwood,

Brisbane p (07) 3392 9512
mob 0401 498 114
Broken Hill p 08 8088 1563

Broken Hill p 08 8088 8770 (after 7pm)
e-mail: TimH@timhopwood.com
Home page: http://www.timhopwood.com

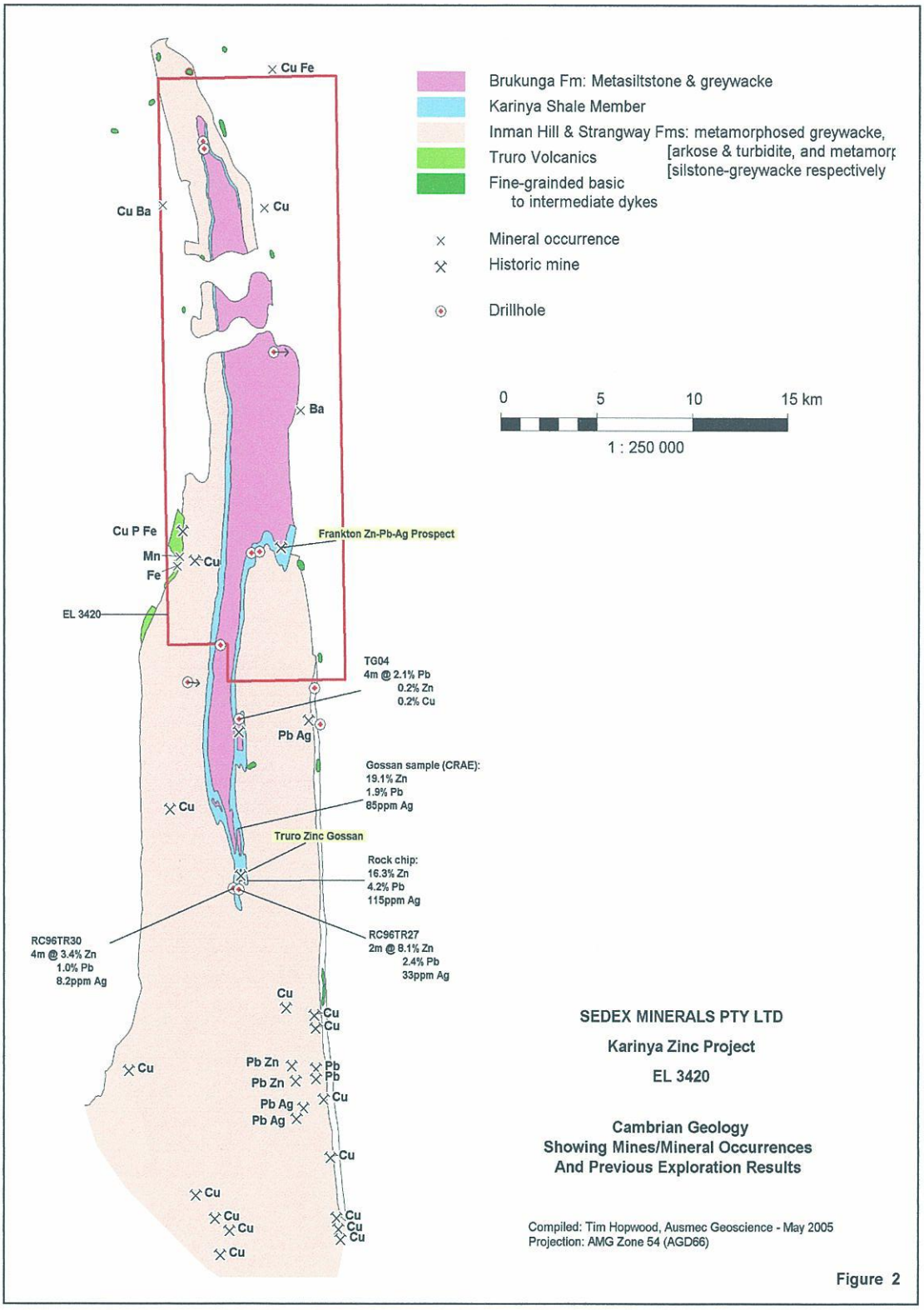


SEDEX MINERALS PTY LTD

Karinya Zinc Project

Location Map - EL 3420

Figure 1


Brukunga Fm: Metasiltstone & greywacke
Karinya Shale Member
Inman Hill & Strangway Fms: metamorphosed greywacke,
[arkose & turbidite, and metamorp
Truro Volcanics
[silstone-greywacke respectively
Fine-grainded basic
to intermediate dykes
Mineral occurrence
Historic mine
Drillhole
0
5
10
15 km
1 : 250 000
Cu Fe
Cu Ba
Cu
Ba
Cu P Fe
Mn
Fe
Cu
Frankton Zn-Pb-Ag Prospect
EL 3420
TG04
4m @ 2.1% Pb
0.2% Zn
0.2% Cu
Pb Ag
Gossan sample (CRAE):
19.1% Zn
1.9% Pb
85ppm Ag
Cu
Truro Zinc Gossan
Rock chip:
16.3% Zn
4.2% Pb
115ppm Ag
RC96TR30
4m @ 3.4% Zn
1.0% Pb
8.2ppm Ag
RC96TR27
2m @ 8.1% Zn
2.4% Pb
33ppm Ag
Cu
Cu
Cu
Cu
Pb Zn
Pb Zn
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Pb Ag
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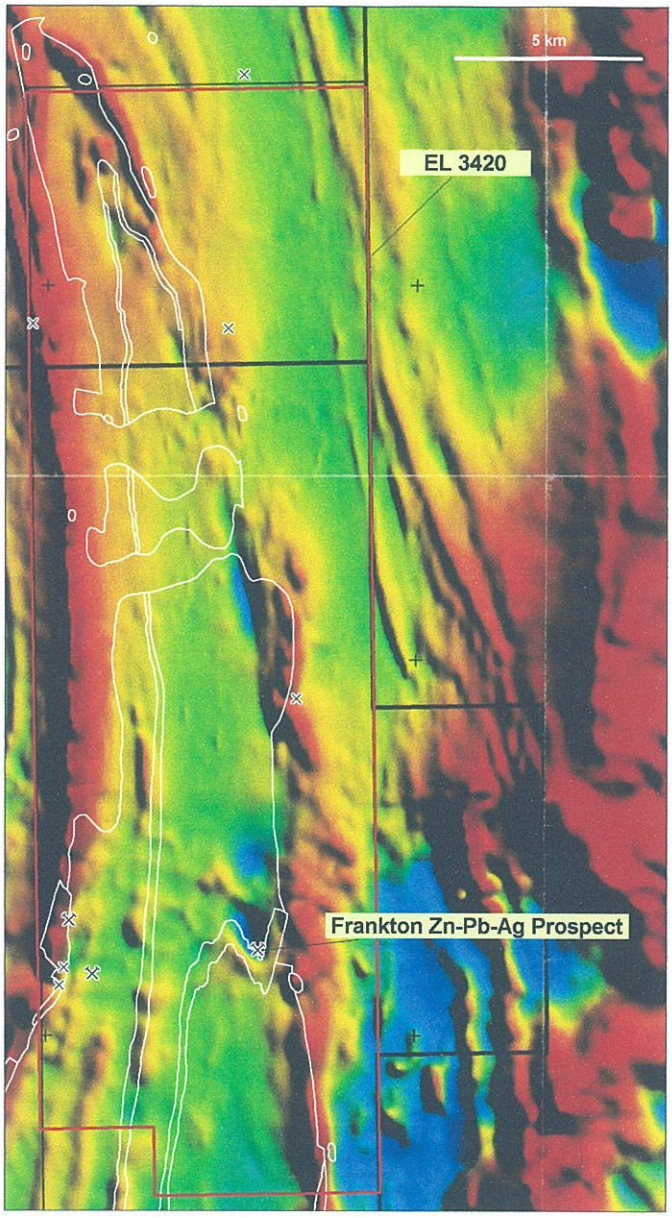
SEDEX MINERALS PTY LTD
Karinya Zinc Project
EL 3420
Cambrian Geology
Showing Mines/Mineral Occurrences
And Previous Exploration Results
Compiled: Tim Hopwood, Ausmec Geoscience - May 2005
Projection: AMG Zone 54 (AGD66)

Figure 2



SEDEX MINERALS PTY LTD

Karinya Zinc Project

Airborne Magnetics Image
EL 3420

Geological boundaries from Figure 2 shown in white

Figure 3

334000 E

335000 E

336000 E

6203000 N

6202000 N

6201000 N

Quarry

Fixed Loop 1

Fixed Loop 2

Frankton 1

Frankton 2

GEOLOGICAL REFERENCE

- Tapanappa Formation: Grey metasiltstone and fine matasandstone
- Karinya Shale: Black shale and gray calc-siltstone
- Backstairs Passage Formation: Crossbedded feldspathic metasandstone
- Exposed lamprophyre dyke
- Lamprophyre float
- Strike and dip of bedding
- Strike and dip of cleavage
- Direction and strike of fold
- Diamond drill hole
- Aeromagnetic anomaly
- Cu soil anomaly
- Pb soil anomaly
- Zn soil anomaly
- Induced polarisation traverse with anomalous zone
- Sirotem moving loop survey
- Sirotem fixed loop survey
- Sirotem fixed loop
- Road, track
- Drainage
- Fence
- Powerline

0 100 200 300 400 500m

SCALE 1 : 10,000

Projection: AMG Zone 54 Datum: AGD 66

Compiled from data from Morris 1991a, 1991b, 1991c

FIGURE 4

KARINYA EI3420
FRANKTON PROSPECT

GEOLOGICAL PLAN SHOWING GROUND MAGNETICS

Date: October, 2006

SEDEX MINERALS PTY

LIMITED

KARINYA ZINC EXPLORATION

PROJECT

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South Australia

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In April 2006 EL 3420 was joint ventured with Lodestone Exploration Limited who took over management of the project. On 4th September 2006 PIRSA granted extension of EL3420 until 15th September 2007. An extension for a further 12 months to September 2008 has been applied for with PIRSA.

Infrastructure:

The area lies some 80 km north-east of Adelaide, and is 200km by rail to Port Pirie lead/zinc smelter/refinery complex. There is a well developed infrastructure around the Karinya Syncline area, with villages, sealed roads, rail heads, power and water supply nearby. The area is criss-crossed by gravel roads for access to farms in the area. There appear to be no Aboriginal Heritage issues.

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In April 2006 EL 3420 was joint ventured with Lodestone Exploration Limited who took over management of the project, managed by Mr John McCawley of Lodestone Exploration Limited, and the Geophysical program was managed by Dr Jovan Silic.

SUMMARY OF WORK UNDERTAKEN DURING THE CURRENT TERM OF EL 3420

EM data was not submitted by Sedex. Sedex subsequently folded and data was unobtainable

A geophysical exploration program followed by drilling three drillholes costing more than $0.5 million, has been carried out in the current term to September 2007; most of it in the latter half year to 16 September 2007.

This program has consisted sequentially of:

- 300 line kilometres of low-level high-resolution aeromagnetics, flown at line intervals of 50 metres, by www.utsgeophysics.com.au of Perth, Western Australia.

- 15 square kilometers of precision gravity at 100 metre station intervals, surveyed by www.daishsat.com.au of Murray Bridge, South Australia.

- 21 line kilometers of moving-loop surface pulse EM, surveyed at 100 metre-300 metre line intervals by www.outer-rim.com.au of Townsville, Qld.

- 266 metres of reverse-circulation and diamond drilling in two holes, by Blacklaws Woods' contractors, of Elphinstone, Victoria.

- Down-hole electromagnetic surveying by www.zonge.com.au of Welland, South Australia.

- 660 metres of diamond drilling, in two holes, by Coughlans Contractors of Dry Creek, South Australia.

The aims of this program were to:

- Gain modern detailed magnetic data over a 6 kilometre by 2.5 kilometre area of interest at Frankton, so as to better define the distinctive magnetic lows and crosscutting structures evident in older, coarser data, in the most cost-effective way possible.

- Search for gravity features that might signify blind, dense mineralised bodies.

- Search for electromagnetic conductors that might represent base metal sulphides.

- Adequately drill-test the magnetic, gravity, and conductive targets identified during the integrated geophysical campaign.

Drilling Results: Four drill holes, varying from 66 metres to 510 metres tested combinations of targets. No significant mineralisation was found.

- Vertical drill hole FSRC01, drilled to 66 metres on line 6202200N, intersected graphitic shale carrying minor iron sulphides.

- Vertical drill hole FSD01A, drilled to 200 metres, showed that the strong conductivity evident on line 6202200N was due to graphitic shales.

  Down-hole EM confirmed that similar lithology extended for a radius of more than 100 metres from the hole.

- Drill hole FSD02, drilled at minus 80^{o} to a depth of 510 metres, targeted a coincident electromagnetic, gravity, and magnetic target on line 6202500N. As in FSRC01 and FSD01A, conductivity was sourced to graphitic shales that carried minor iron sulphides. Less certain, but plausible explanations for the gravity and magnetic anomalies have been advanced.

- Drill hole FND01, drilled to 150 metres at minus 80^{o} on line 6204000N, tested a coincident electromagnetic and magnetic target. As in each of

the three previous holes, highly conductive graphitic shales, devoid of significant mineralisation, were intersected.

EM data was not submitted by Sedex. Sedex subsequently folded and data was unobtainable

Results of the Geophysical Program

The results of the high resolution aeromagnetic TMI survey are presented in Figure 5, on page 14.

The results of the ground gravity survey are presented in Figure 6, on page 15.

And the results of the Moving Loop EM Channel 36 electromagnetic survey are superimposed on the aeromagnetic TMI survey and presented as Figure 7, page 16.

The DHEM results are contained in a powerpoint file included in the digital submission on CD-Rom.

All Geophysical data was not submittted by Sedex. Sedex subsequently folded and no data was obtained.

Appendix 1: List of Drillhole Logs and Geochemical Results.

1. Drillhole Frankton FN1, Summary Log by Sean Kennedy, 25-08-07
   FN1 Geology xls, FN1 Structure xls.

2. Drillhole Frankton FS2, Summary Log by Sean Kennedy, 20-08-07
   FS2 Geology xls, FS2 Structure xls.

3. Karinya Line 2200N EM, DHEM TR01, Jovan Sillic 26-07-07.

4. Frankton FS1, pdf file- geochemical assay results.

5. Frankton FS2, pdf file- geochemical assay results.

6. Geochemical assay results taken from outcrop of Plate 1, in creek below Drillhole FS1.

Plate 1

Plate 1: Outcrop of manganiferous oxidised pyritic gossan, in creek below drillhole FS1. The outcrop dips shallowly eastwards towards the drillhole and represents the pyritic units intercepted in the shallower parts of the drillhole. The geochemical assay results include 4.0% Fe, 4.0% Mn, 96 ppm Pb, 370 ppm Cu, 800 ppm Zn, 4 ppm Ag, 140, As.

EXPLORATION LICENCE 3420 – KARINYA PROJECT FIELD EXPENDITURE TO 15-08-07

	$
Geophysics	
• UTS high-resolution aeromagnetics	13,200
• DAISHSAT precision gravity	57,359
• Outer-Rim electromagnetics	91,427
• Zonge DHEM	3,432
• Supervision and interpretation	18,067
Drilling	
• Blacklaws drillers	133,059
• Coughlans' Drillers	105,275
• Jarrett landholder liaison and management project	14,211
Geology	
• Sean Kennedy @ $605/d	17,919
• Ken Harvey	3,630
Accommodation, Vehicles	
• Amanda Vance	3,737
Freight and Supplies	
• Supplies	4,227
Total:	$465,543

Draft: 6.9.07

E&OE

Note: Dollars are actuals to 15-08-07.

References:

Abbott, P. Burrt, A. Ferguson, D. Moriarty, K. 2005: "Cambrian mineral resources come of age- the Kanmantoo revival", MESA Journal **36,** January 2005, pp 6-11.

Both, R.A. "Kanmantoo Trough – Geology and Mineral Deposits *in* Geology of the Mineral Deposits of Australia and Papua New Guinea Ed F. E. Hughes) pp 1195 – 1203, Australasian Institute of Mining and Metallurgy: Melbourne

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Hopwood, Tim 2006: Karinya Zinc Exploration Project; EL 3420, South Australia, Six Monthly Report to 16-03-06

Hopwood, Tim 2006: Karinya Zinc Exploration Project; EL 3420, South Australia, Annual Technical Report to 16-09-06

Morris, Brian.J. February 1991a: Kanmantoo Trough Geological Investigations, Karinya Syncline; Detailed Geochemical Surveys. SADME Report Book 91/19.

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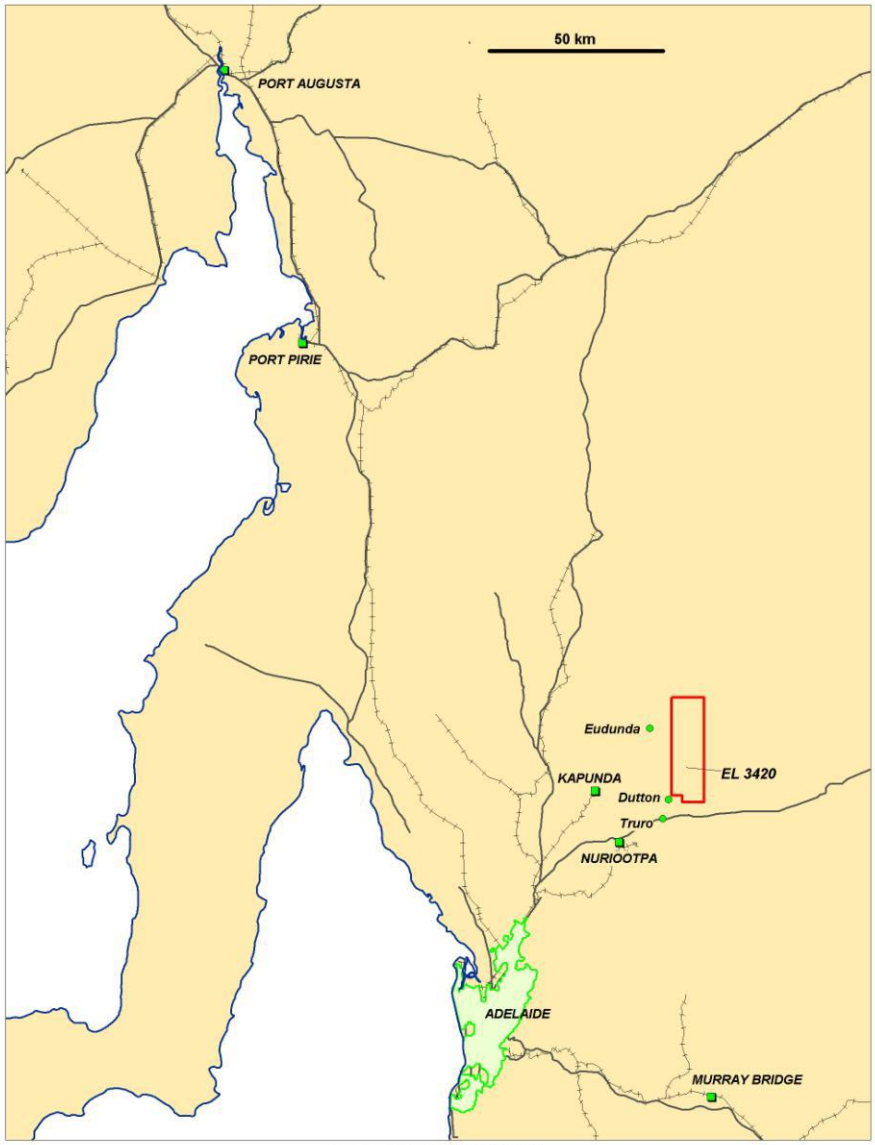
O'Driscoll, E.S.T.1981: "Structural Corridors in Landsat Lineament Interpretation." Mineral Deposits Vol 16, pp 85-101.

Kindly direct any queries of a technical nature to:

Tim Hopwood,

Brisbane p (07) 3392 9512
mob 0401 498 114
e-mail: TimH@timhopwood.com
Home page:http://www.timhopwood.com



SEDEX MINERALS PTY LTD

Karinya Zinc Project

Location Map - EL 3420

Figure 1

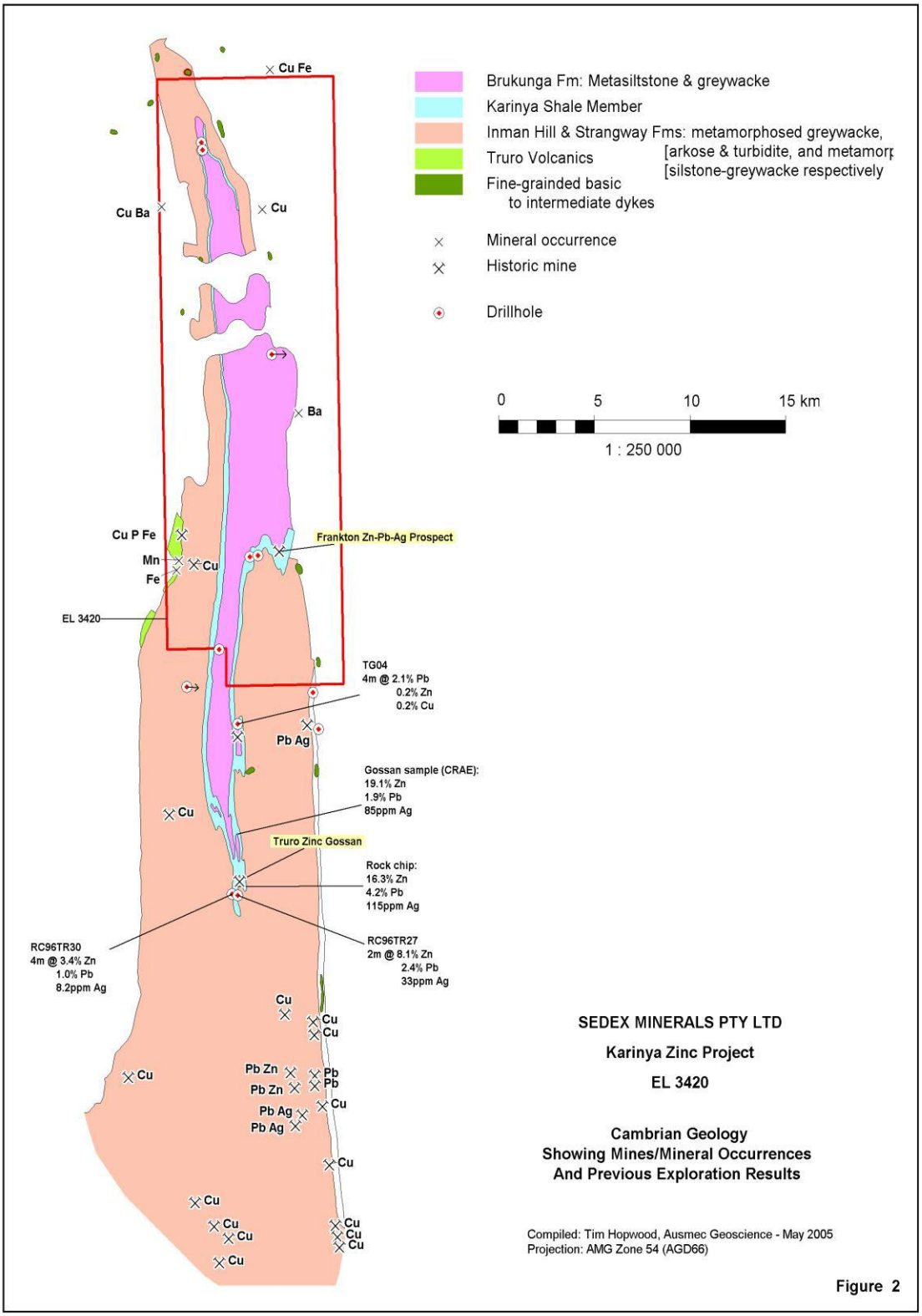
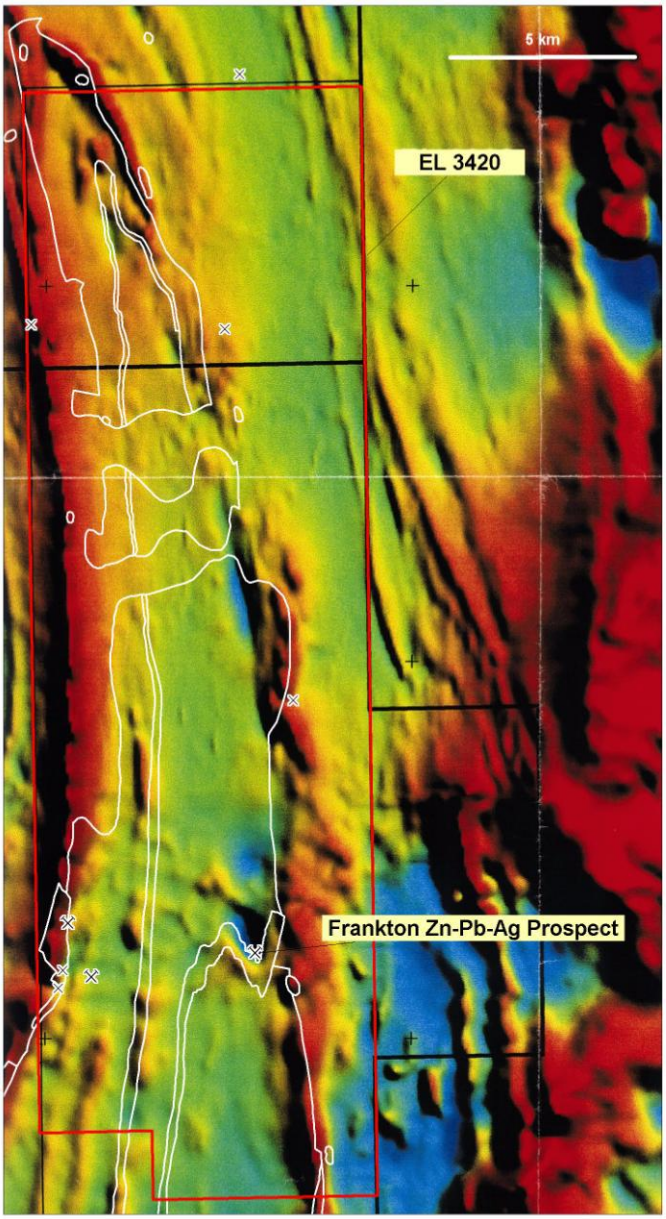

Brukunga Fm: Metasiltstone & greywacke
Karinya Shale Member
Inman Hill & Strangway Fms: metamorphosed greywacke,
[arkose & turbidite, and metamorp
[silstone-greywacke respectively
Truro Volcanics
Fine-grainded basic
to intermediate dykes
Mineral occurrence
Historic mine
Drillhole
0
5
10
15 km
1 : 250 000
Cu Fe
Cu Ba
Cu
Ba
Cu P Fe
Mn
Fe
Cu
Frankton Zn-Pb-Ag Prospect
EL 3420
TG04
4m @ 2.1% Pb
0.2% Zn
0.2% Cu
Pb Ag
Gossan sample (CRAE):
19.1% Zn
1.9% Pb
85ppm Ag
Truro Zinc Gossan
Rock chip:
16.3% Zn
4.2% Pb
115ppm Ag
RC96TR30
4m @ 3.4% Zn
1.0% Pb
8.2ppm Ag
RC96TR27
2m @ 8.1% Zn
2.4% Pb
33ppm Ag
Pb Zn
Pb
Pb Ag
SEDEX MINERALS PTY LTD
Karinya Zinc Project
EL 3420
Cambrian Geology
Showing Mines/Mineral Occurrences
And Previous Exploration Results
Compiled: Tim Hopwood, Ausmec Geoscience - May 2005
Projection: AMG Zone 54 (AGD66)

Figure 2



SEDEX MINERALS PTY LTD

Karinya Zinc Project

Airborne Magnetics Image
EL 3420

Geological boundaries from Figure 2 shown in white

Figure 3

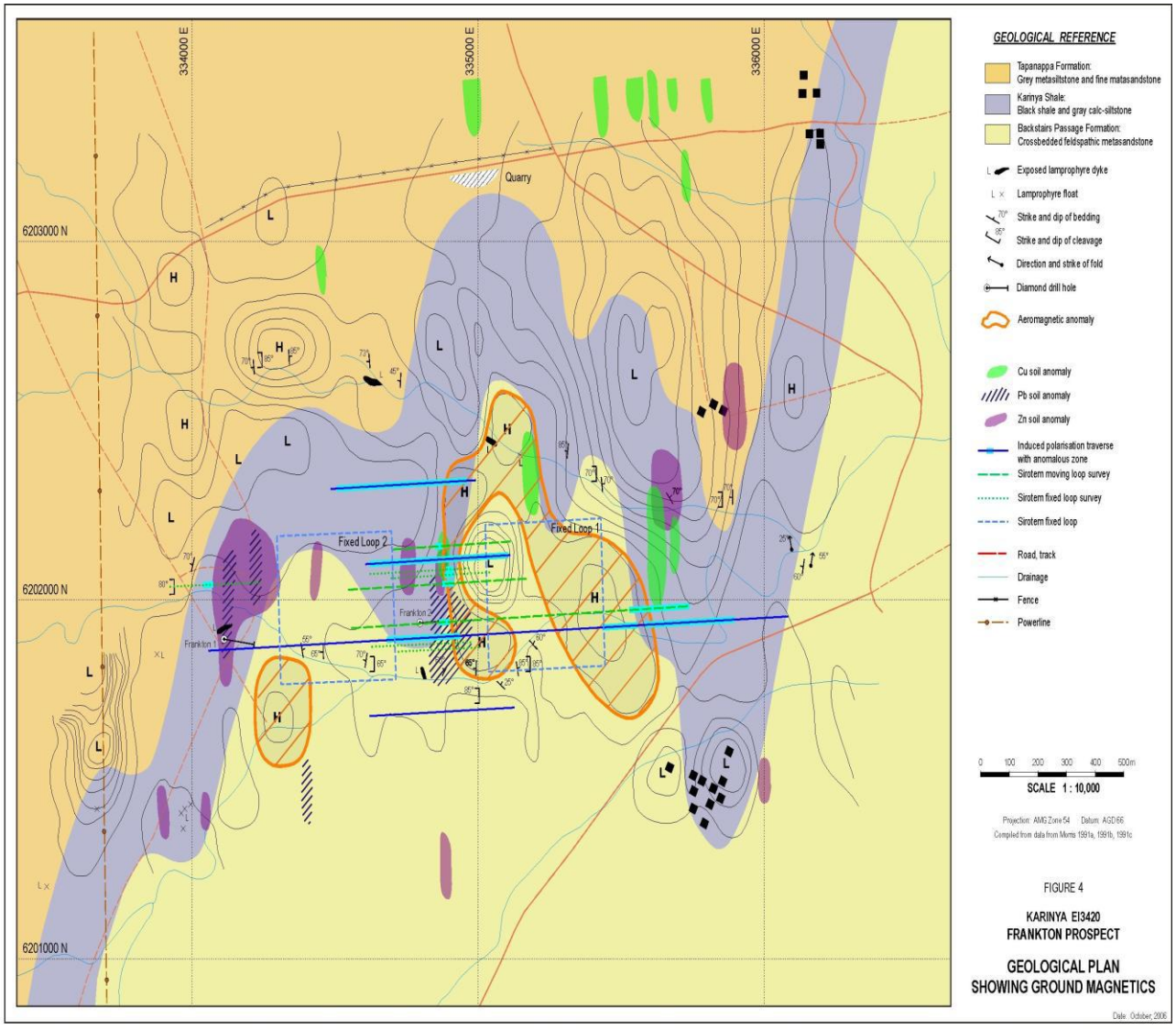

334000 E
335000 E
336000 E
6203000 N
6202000 N
6201000 N
Quarry
Fixed Loop 2
Fixed Loop 1
Frankton 2
Frankton 1
GEOLOGICAL REFERENCE
Tapanappa Formation:
Grey metasiltstone and fine matasandstone
Karinya Shale:
Black shale and gray calc-siltstone
Backstairs Passage Formation:
Crossbedded feldspathic metasandstone
Exposed lamprophyre dyke
Lamprophyre float
Strike and dip of bedding
Strike and dip of cleavage
Direction and strike of fold
Diamond drill hole
Aeromagnetic anomaly
Cu soil anomaly
Pb soil anomaly
Zn soil anomaly
Induced polarisation traverse
with anomalous zone
Sirotem moving loop survey
Sirotem fixed loop survey
Sirotem fixed loop
Road, track
Drainage
Fence
Powerline
0 100 200 300 400 500m
SCALE 1 : 10,000
Projection: AMG Zone 54 Datum: AGD66
Compiled from data from Morris 1991a, 1991b, 1991c
FIGURE 4
KARINYA EI3420
FRANKTON PROSPECT
GEOLOGICAL PLAN
SHOWING GROUND MAGNETICS
Date: October, 2006

Figure 5: Karinya Airborne TMI

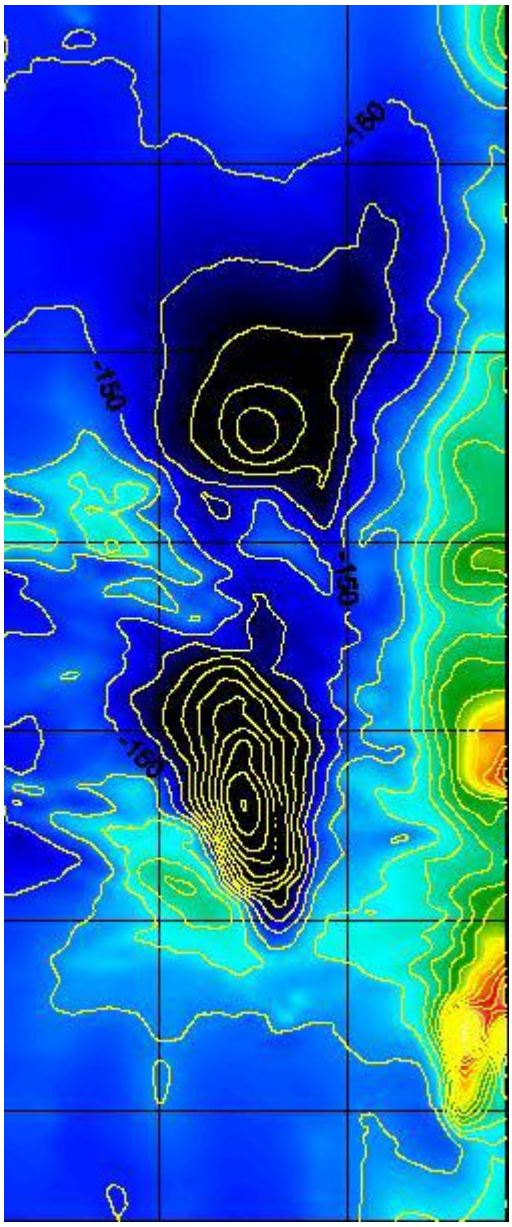
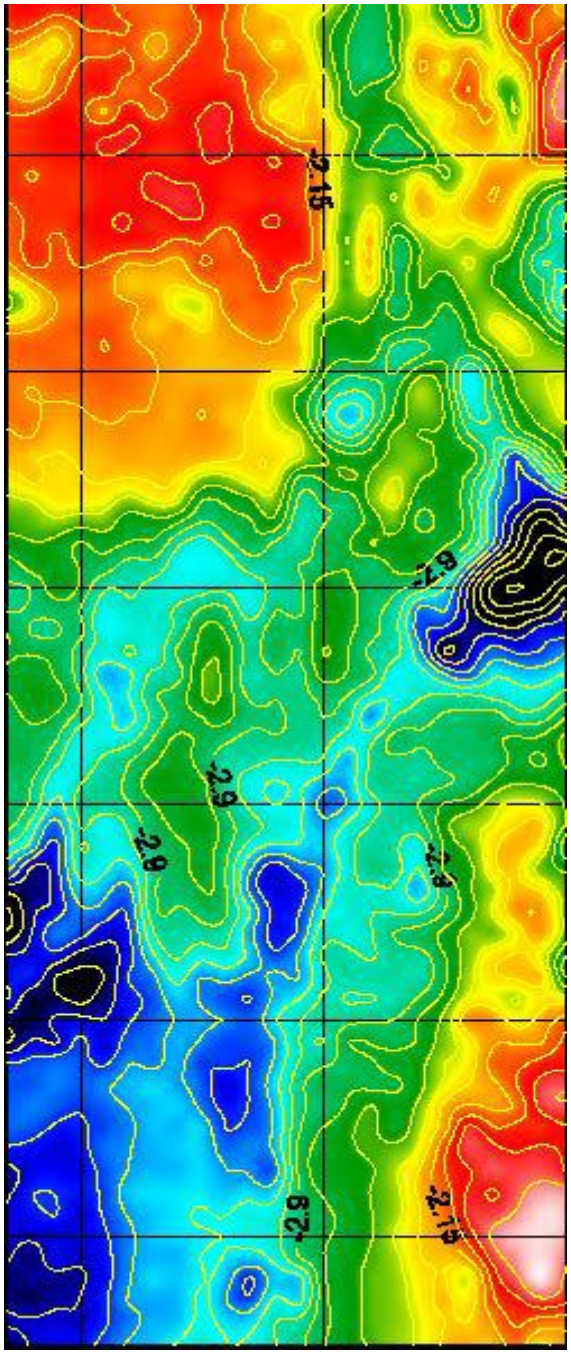


Figure 6 Karinya Ground Gravity Survey

335000E 336000E



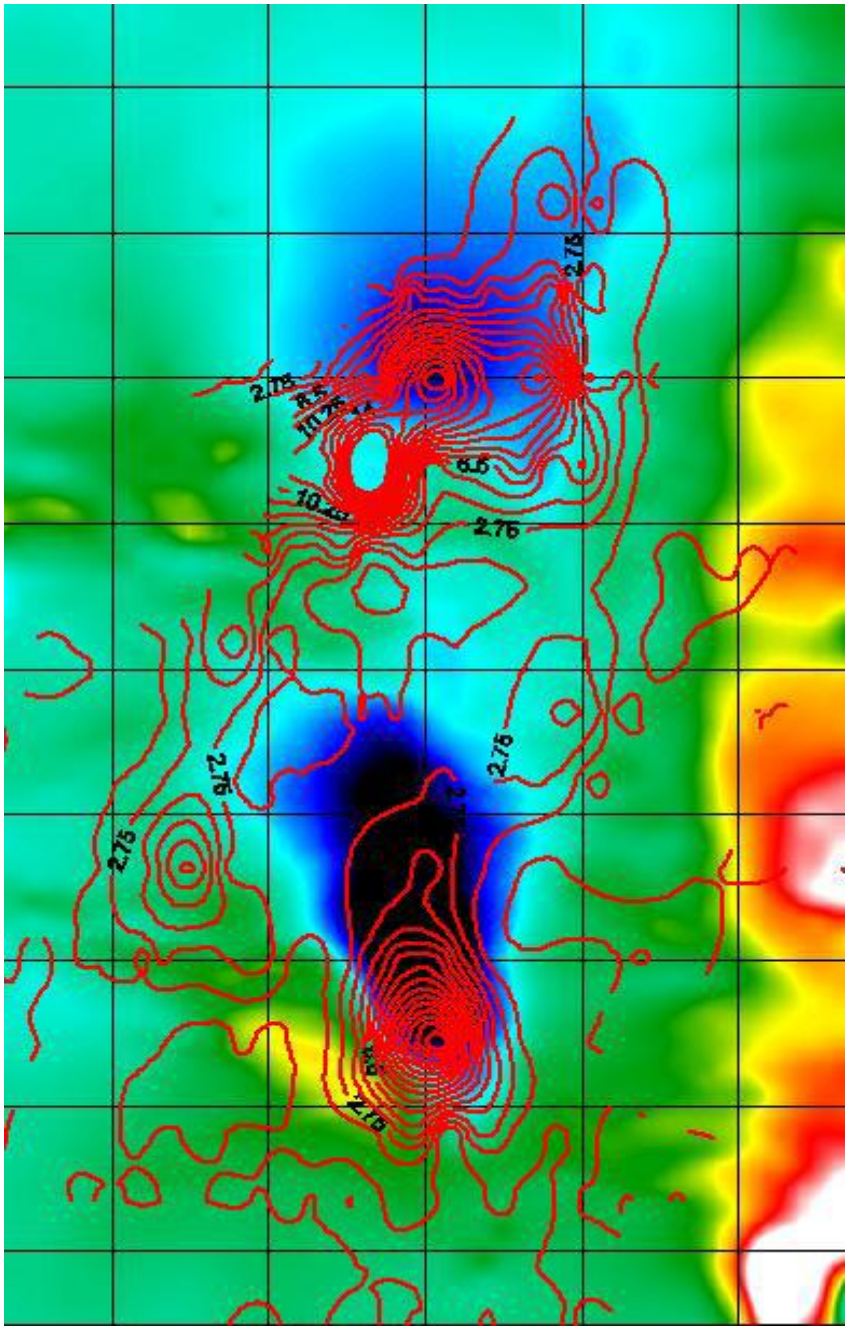
6204000N

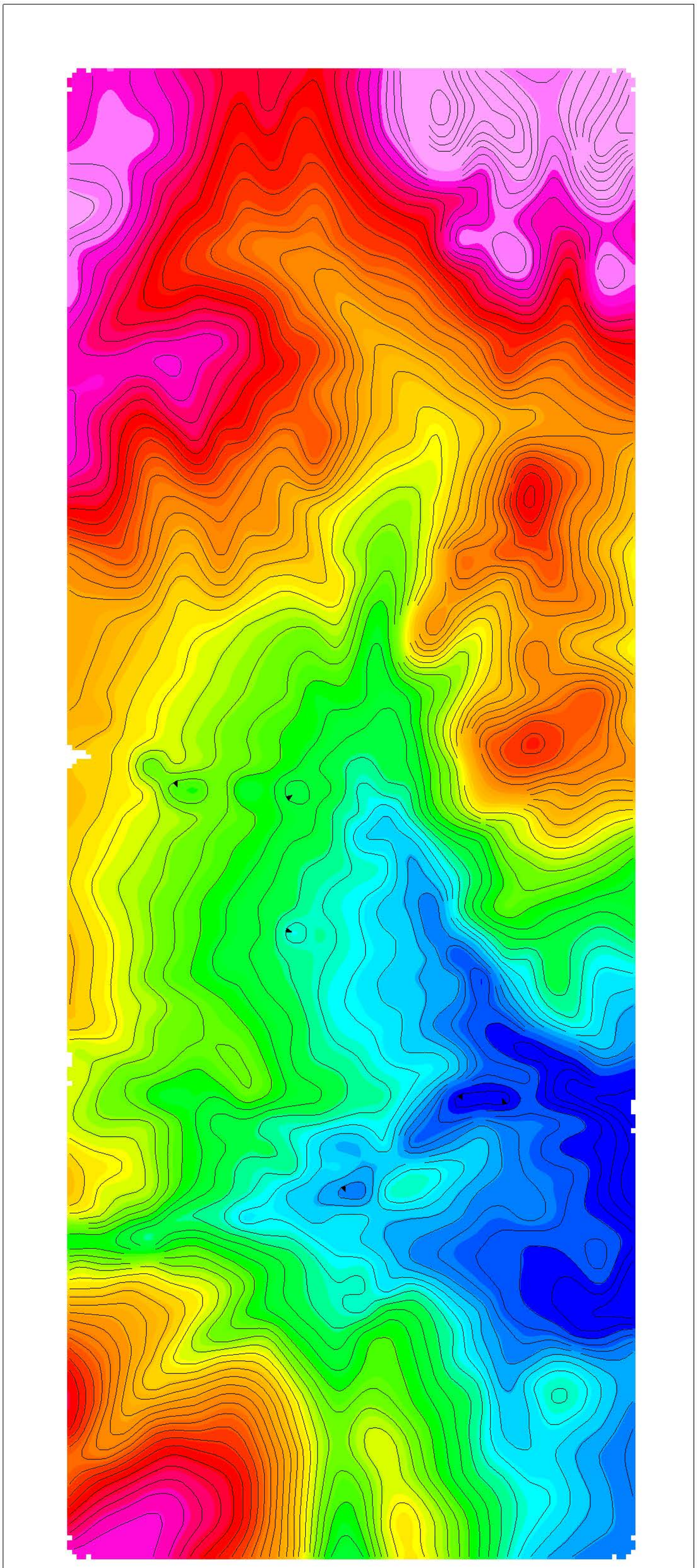
6203000N

6202000N

6201000N

Figure 7: Karinya TMI with Moving Loop EM Channel 36.





N

GPS Derived Elevations
(m)

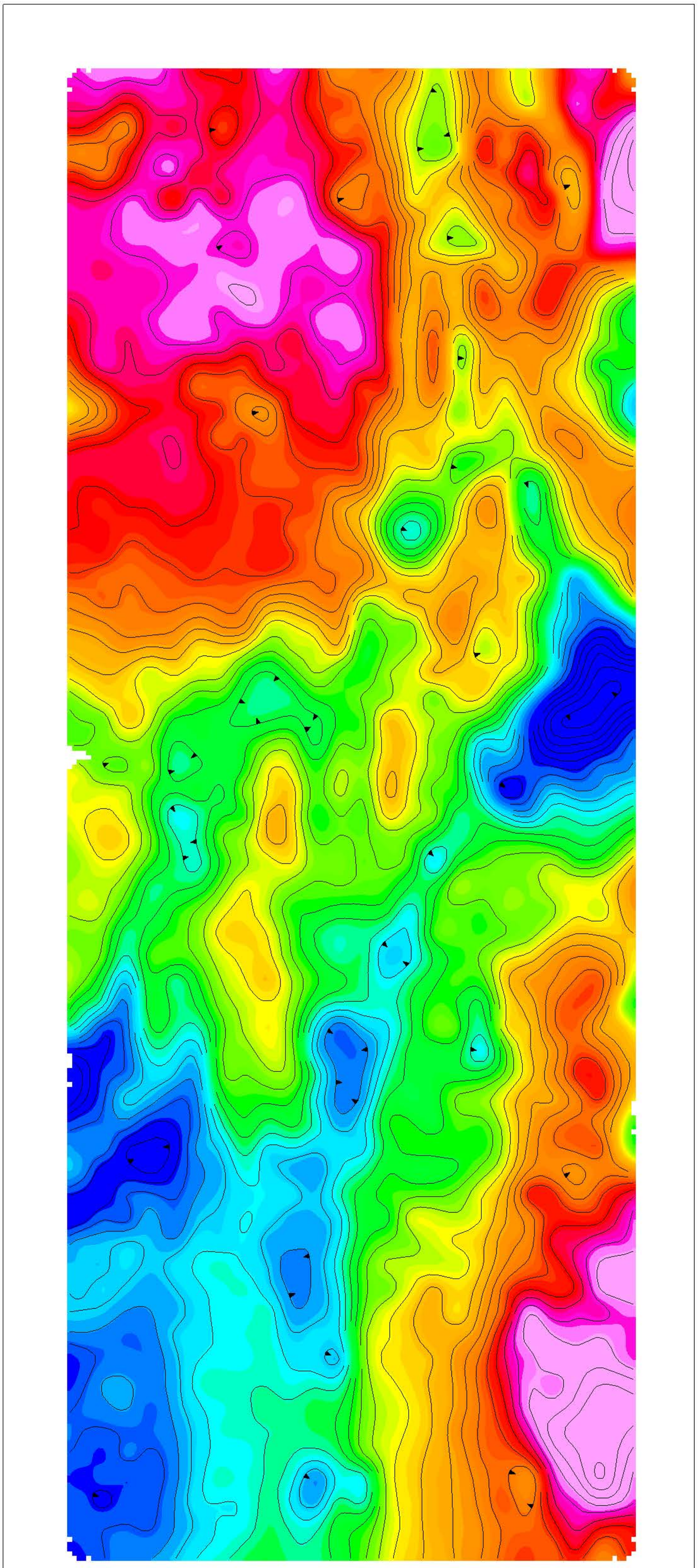
209.9 221.5 229.2 235.7 242.1 250.0 258.4 269.9

Scale 1:21000

250 0 250 500 750

(meters)

07003 LODESTONE MINING
Frankton Gravity Survey **Image of GPS Derived Elevation** **Histogram Equalisation, Contour Interval 1m**
Surveyed By: Daishsat Geodetic Surveyors January 2007 www.daishsat.com
GC



N

BG267
(mGal)

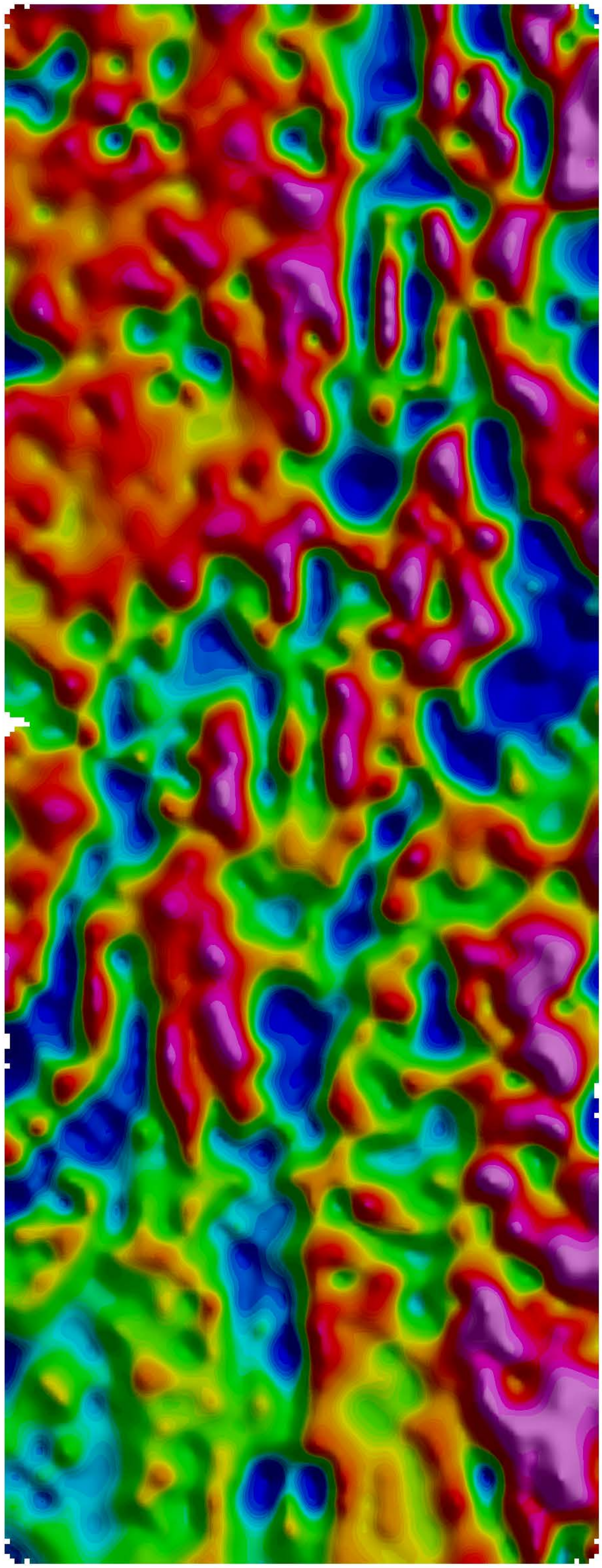
-3.8 -3.5 -3.2 -3.1 -2.9 -2.8 -2.6 -2.4 -2.2 -2.0

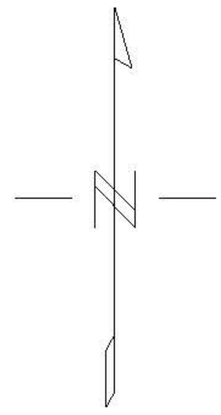
Scale 1:21000

250 0 250 500 750

(meters)

07003 LODESTONE MINING
Frankton Gravity Survey **Image of GPS Derived Elevation** **Histogram Equalisation, Contour Interval 1m**
Surveyed By: Daishsat Geodetic Surveyors January 2007 www.daishsat.com
GC





1VD

-0.004 -0.001 -0.001 0.000 0.001 0.001 0.002

Scale 1:21000

250 0 250 500 750

(meters)

07003 LODESTONE MINING
Frankton Gravity Survey **Image of GPS Derived Elevation** **Histogram Equalisation, Contour Interval 1m**
Surveyed By: Daishsat Geodetic Surveyors January 2007 www.daishsat.com
GC

Appendix 1: List of Drillhole Logs and Geochemical Results.

1. Drillhole Frankton FN1, Summary Log by Sean Kennedy, 25-08-07
   FN1 Geology xls, FN1 Structure xls.

2. Drillhole Frankton FS2, Summary Log by Sean Kennedy, 20-08-07
   FS2 Geology xls, FS2 Structure xls.

3. Karinya Line 2200N EM, DHEM TR01, Jovan Sillic 26-07-07.

4. Frankton FS1, pdf file- geochemical assay results.

5. Frankton FS2, pdf file- geochemical assay results.

6. Geochemical assay results taken from outcrop of Plate 1, in creek below
   Drillhole FS1.

LODESTONE EXPLORATION FRANKTON PROJECT GEOLOGY LOG HOLE ID:- FN1

Geologist:- SEAN KENNEDY Date Logged:- August 2007

depth m			character	% alteration & vein minerals						% ore minerals				comments
from	to	colour	lithology	grain size	graphite	quartz	carbonate	pyrite	pyrrhotite	galena	sphalerite	chalcopyrite	oxidation state	
0	1	BR	CL	F									ox	
1	2	BR	CL	F									ox	0-5 OPEN HOLE WITH DRAG BIT
2	3	BR	CL	F									ox	0-5.0 brown clay
3	4	BR	CL	F									ox	
4	5	BR	CL	F									ox	
5	6	BR,GR	SL,CL	F									pox	5.0-35.6 HQ CORING
6	7	BR,GR	SL,CL	F									pox	5-9 brown clay and siltstone
7	8	BR,GR	SL,CL	F									pox	
8	9	BR,GR	SL,CL	F									pox	
9	10	BR,YL	SL	F									pox	16.1 bedding planes
10	11	BR,YL	SL	F									pox	
11	12	BR,YL	SL	F									pox	
12	13	BR,YL	SL	F									pox	9-19 yellow brown siltstone
13	14	BR,YL	SL	F									pox	
14	15	BR,YL	SL	F									pox	
15	16	BR,YL	SL	F									pox	
16	17	BR,YL	SL	F									pox	
17	18	BR	SL	F									pox	
18	19	BR	SL	F									pox	
19	20	BR	SL	F									pox	
20	21	BR	SL	F									pox	
21	22	BR	SL	F									pox	
22	23	BR	SL	F									pox	21.5 bedding planes
23	24	BR	SL	F									pox	
24	25	BR	SL	F									pox	
25	26	BR	SL	F									pox	
26	27	BR	SL	F									pox	
27	28	BR	SL	F									pox	
28	29	BR	SL	F									pox	
29	30	GR,BL	SL	F									frs	

LODESTONE EXPLORATION FRANKTON PROJECT GEOLOGY LOG HOLE ID:- FN1

Geologist:- SEAN KENNEDY Date Logged:- August 2007

depth m			character	% alteration & vein minerals						% ore minerals				comments
from	to	colour	lithology	grain size	graphite	quartz	carbonate	pyrite	pyrrhotite	galena	sphalerite	chalcopyrite	oxidation state	
30	31	GR, BR, BL	SL	F									frs	
31	32	GR, BR, BL	SL	F									frs	30.6-35.6 black, brown and grey siltstone
32	33	GR, BR, BL	SL	F									frs	
33	34	GR, BR, BL	SL	F									frs	
34	35	GR, BR, BL	SL	F									frs	34.0 30mm gossanous layer
35	36	GR, BR, BL	SL	F									frs	
36	37	BL	SL	F									frs	35.6 - 150.6 NQ2 CORING
37	38	GR	SSQ	F									frs	
38	39	GR	SSQ	F									frs	
39	40	GR	SSQ	F									frs	37.5-41.8 grey fine grained quartzite
40	41	GR	SSQ	F									frs	41.8-41.9 coarse grained sandstone
41	42	GR	SSQ	F									frs	42.1-49.0 fractured dark grey siltstone
42	43	GR	SL	F									frs	
43	44	GR	SL	F									frs	
44	45	GR	SL	F									frs	
45	46	GR	SL	F									frs	
46	47	GR	SL	F									frs	
47	48	GR	SL	F									frs	
48	49	GR	SL	F									frs	
49	50	GR	SSQ	F									frs	
50	51	GR	SS	F				1					frs	49.0- 49.8 grey quartzite
51	52	GR	SS	F									frs	49.8-52.5 coarse grained sandstone with pyrite
52	53	GR	SL	C									frs	52.5-55.5 dark grey fine grained siltstone vein at
53	54	GR	SL	F									frs	(90^{o}
54	55	GR	SL	F									frs	
55	56	GR	SSQ	F									frs	
56	57	GR	SL	F				1					frs	
57	58	GR	SL	F				1					frs	
58	59	GR	SL	F				1					frs	
59	60	GR	SL	F				1					frs	

LODESTONE EXPLORATION FRANKTON PROJECT GEOLOGY LOG HOLE ID:- FN1

Geologist:- SEAN KENNEDY Date Logged:- August 2007

depth m			character	% alteration & vein minerals						% ore minerals				
from	to	colour	lithology	grain size	graphite	quartz	carbonate	pyrite	pyrrhotite	galena	sphalerite	chalcopyrite	oxidation state	comments
60	61	GR	SL	F				1					frs	
61	62	GR	SL	F				1					frs	
62	63	GR	SL	F				1					frs	
63	64	GR	SL	F				1					frs	
64	65	GR	SL	F				1					frs	
65	66	GR	SL	F				1					frs	
66	67	GR	SL	F				1					frs	65.7 1 mm pyrite stringer at 60°
67	68	GR	SL	F				1					frs	66.3-70.3 pyrite in fractures
68	69	GR	SL	F				1					frs	
69	70	GR	SL	F				1					frs	68.9 bedding planes at 45°
70	71	GR	SL	F									frs	
71	72	GR	SL	F									frs	
72	73	GR	SL	F									frs	
73	74	GR	SL	F									frs	
74	75	GR	SL	F									frs	
75	76	GR	SL	F									frs	70-86.5 dark grey siltstone
76	77	GR	SL	F									frs	
77	78	GR	SL	F									frs	
78	79	GR	SL	F									frs	86.4 15mm calcite and pyrite vein at 50°
79	80	GR	SL	F									frs	
80	81	GR	SL	F									frs	
81	82	GR	SL	F									frs	
82	83	GR	SL	F									frs	
83	84	GR	SL	F									frs	
84	85	GR	SL	F									frs	
85	86	GR	SL	F									frs	
86	87	GR	SL	F									frs	86.5 base of Tapanappa and top of Karinya Shale
87	88	BL	SH	F	30								frs	
88	89	BL	SH	F	30								frs	
89	90	BL	SH	F	30								frs	

LODESTONE EXPLORATION FRANKTON PROJECT GEOLOGY LOG HOLE ID:- FN1

Geologist:- SEAN KENNEDY Date Logged:- August 2007

depth m			character	% alteration & vein minerals						% ore minerals				
from	to	colour	lithology	grain size	graphite	quartz	carbonate	pyrite	pyrrhotite	galena	sphalerite	chalcopyrite	oxidation state	comments
90	91	BL	SH	F	30			1					frs	
91	92	BL	SH	F	30			1					frs	
92	93	BL	SH	F	30			1					frs	
93	94	BL	SH	F	30			1					frs	Pyrite veins at 93.1,97.0,98.0, 98.5
94	95	BL	SH	F	30			1					frs	at 50°-70°
95	96	BL	SH	F	30			1					frs	
96	97	BL	SH	F	30			1					frs	
97	98	BL	SH	F	30			1					frs	
98	99	BL	SH	F	30			1					frs	
99	100	BL	SH	F	30			2					frs	
100	101	BL	SH	F	30			2					frs	
101	102	BL	SH	F	40			2					frs	
102	103	BL	SH	F	40			2					frs	
103	104	BL	SH	F	40			2					frs	
104	105	BL	SH	F	40			2					frs	
105	106	BL	SH	F	40			2					frs	
106	107	BL	SH	F	40			2					frs	
107	108	BL	SH	F	40			2					frs	
108	109	BL	SH	F	40			2					frs	
109	110	BL	SH	F	40			2					frs	
110	111	BL	SH	F	40			2					frs	
111	112	BL	SH	F	40			2					frs	110.9, 113.9 bedding planes indicate easterly dip
112	113	BL	SH	F	40			2					frs	
113	114	BL	SH	F	50			2					frs	
114	115	BL	SH	F	50			2					frs	
115	116	BL	SH	F	50			2					frs	
116	117	BL	SH	F	50			2					frs	
117	118	BL	SH	F	50			2					frs	116.4-125.0 very black shale with numerous thin
118	119	BL	SH	F	50			2					frs	(pyrite veins at 70°
119	120	BL	SH	F	50			2					frs	

LODESTONE EXPLORATION FRANKTON PROJECT GEOLOGY LOG HOLE ID:- FN1

Geologist:- SEAN KENNEDY Date Logged:- August 2007

depth m			character	% alteration & vein minerals						% ore minerals				
from	to	colour	lithology	grain size	graphite	quartz	carbonate	pyrite	pyrrhotite	galena	sphalerite	chalcopyrite	oxidation state	comments
120	121	BL	SH	F	50			2					frs	
121	122	BL	SH	F	50			2					frs	
122	123	BL	SH	F	50			2					frs	
123	124	BL	SH	F	50			2					frs	
124	125	BL	SH	F	50			2					frs	123.8 irregular calcite vein to 30mm
125	126	BL	SH	F	50			2					frs	
126	127	BL	SH	F	50			2					frs	
127	128	BL	SH	F	50			2					frs	
128	129	BL	SH	F	50			2					frs	125-133.7 black shale with some bedding planes
129	130	BL	SH	F	50			2					frs	(and pyrite veins to 5mm
130	131	BL	SH	F	50			2					frs	
131	132	BL	SH	F	50			2					frs	133.9-134.4 highly sheared black shale
132	133	BL	SH	F	50			2					frs	
133	134	BL	SH	F	50			2					frs	
134	135	BL	SH	F	50			2					frs	
135	136	BL	SH	F	50			2					frs	
136	137	BL	SH	F	50			2					frs	
137	138	BL	SH	F	50			2					frs	
138	139	BL	SH	F	50			2					frs	
139	140	BL	SH	F	50			2					frs	
140	141	BL	SH	F	50			2					frs	
141	142	BL	SH	F	30			2					frs	
142	143	BL	SH	F	30			2					frs	
143	144	BL	SH	F	30			2					frs	
144	145	BL	SH	F	30			2					frs	141.6-145.9 black shale becoming more siliceous
145	146	BL	SH	F	30			2					frs	143.8-143.9 fine grained quartzite
146	147	BL	SH	F	40			2					frs	146.5 50mm brecciated layer with pyrite
147	148	BL	SH	F	40			2					frs	
148	149	BL	SH	F	40			2					frs	149.3 10mm calcite vein
149	150	BL	SH	F	40			2					frs	150.6 END of HOLE

FRANKTON PROJECT FN1 STRUCTURE

from	to	struct_id	dip	mag	dip	alpha	beta	width	infill	conf-	preferred	frequency	intensity	comment
m	m			strike	quadrant			m	mineral	idence	reading	m		
16.1		bedding				30°								
21.5		bedding				25°								
31.9		bedding				30°								
68.9		bedding				45°	0°							
75.6		bedding				65°	40°							
86.4		vein				50°		0.015	ca,py					pyrite & calcite vein
93.1		vein				50°		0.030	py					
97.0		vein				60°								
98.0		vein				60°								
98.5		vein				70°								
106.0		bedding				55°								
106.7		bedding				50°								
107.6		bedding				45°								
110.5		bedding				35°	20°							
113.9		bedding				50°	10°							
127.4		bedding				60°	25°							
132.9		bedding				65°	0°							
133.7		bedding				60°	20°							

LODESTONE EXPLORATION FRANKTON PROJECT GEOLOGY LOG HOLE ID:- FS2

Geologist:- SEAN KENNEDY Date Logged:- August 2007

depth m		character			% alteration & vein minerals					% ore minerals				comments
from	to	colour	lithology	grain size	graphite	quartz	carbonate	pyrite	pyrrhotite	galena	sphalerite	chalcopyrite	oxidation state	
0	1	WH	CC	C			80						ox	HQ CORE FROM SURFACE. 0-0.8 calcrete
1	2	BR	CL	F									ox	0.8-1.4 brown clay
2	3	BR	SL	F		5							pox	1.4-2.5 brown partly weathered siltstone
3	4	BR	SL	F									pox	2.5-4.0 30% core loss
4	5	BR	SL	F									pox	4.0-5.7 brown siltstone with minor broken quartz vein
5	6	BR	SL	F									pox	
6	7	BR	SL	F		5							pox	5.7-8.8 brown to grey siltstone with low angle fracture
7	8	BR	SL	F									pox	8.8-8.9 broken quartz vein
8	9	BR	SL	F									pox	8.9-10.2 brown siltstone
9	10	BR	SL	F		3							pox	10.2 -11.3 highly fractured brown siltstone
10	11	BR	SL	F		5							pox	11.3 START NQ CORE
11	12	BR	SL	F									pox	11.6 5cm irregular quartz vein
12	13	BR	SL	F									pox	11.6-12.1 grey siltstone
13	14	GR	SL	F									pox	12.1-12.2 irregular quartz vein in gossanous matrix
14	15	GR	SL	F									pox	13.0-14.7 grey siltstone
15	16	BR	SL	F									pox	14.7-15.6 brown siltstone with minor clay
16	17	GR	SL	F									frs	15.6 grey siltstone bedding at 30^{o} to core
17	18	GR	SL	F									frs	18.7 bedding at 30^{o} to core
18	19	GR	SL	F									frs	
19	20	GR	SL	F									frs	
20	21	GR	SL	F									frs	23.5 bedding at 45^{o}
21	22	GR	SL	F									frs	25.1-25.2 medium grained brown sandstone band
22	23	GR	SL	F									frs	25.2-25.9 grey siltstone
23	24	GR	SL	F									frs	25.9-26.1 medium grained brown sandstone band
24	25	GR	SL	F									frs	
25	26	GR	SL	F									frs	26.1-28.0 grey massive fine grained sandstone
26	27	GR	SS	F									frs	
27	28	GR	SL	F									frs	
28	29	GR	SL	F									frs	28.0-30.0 grey siltstone
29	30	GR	SL	F									frs	29.0 irregular rough fracture

depth m		character			% alteration & vein minerals					% ore minerals				comments
from	to	colour	lithology	grain size	graphite	quartz	carbonate	pyrite	pyrrhotite	galena	sphalerite	chalcopyrite	oxidation state	
30	31	GR	SS	F									frs	30-31.8 grey, fine massive sandstone
31	32	GR	SS	F									frs	31.8-33.9 siltstone
32	33	GR	SL	F									frs	31.7-35 numerous 35^{o} bedding plane fractures with Fe staining
33	34	GR	SL	F									frs	33.9-35 sandstone
34	35	GR	SS	F									frs	
35	36	GR	SL	F									frs	35-57 siltstone
36	37	GR	SL	F									frs	
37	38	GR	SL	F									frs	37.0 Fe staining in irregular fractures
38	39	GR	SL	F									frs	39.3 slickensides in 45^{o} fracture
39	40	GR	SL	F									frs	
40	41	GR	SL	F									frs	
41	42	GR	SL	F									frs	
42	43	GR	SL	F									frs	
43	44	GR	SL	F									frs	
44	45	GR	SL	F									frs	
45	46	GR	SL	F									frs	
46	47	GR	SL	F									frs	
47	48	GR	SL	F									frs	
48	49	GR	SL	F									frs	
49	50	GR	SL	F									frs	
50	51	GR	SL	F									frs	
51	52	GR	SL	F									frs	52.3 2mm calcite vein at 90^{o}
52	53	GR	SL	F									frs	
53	54	GR	SL	F									frs	
54	55	GR	SL	F									frs	
55	56	GR	SL	F									frs	
56	57	BL	SH	F	20								frs	57.2 base of Tapanappa Siltstone and top of Karinya Shale
57	58	BL	SH	F	20			1					frs	
58	59	BL	SH	F	20								frs	57.9-58.2 about six 1mm pyrite stringers at 30^{o}
59	60	BL	SH	F	20								frs	

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depth m		character			% alteration & vein minerals					% ore minerals				comments
from	to	colour	lithology	grain size	graphite	quartz	carbonate	pyrite	pyrrhotite	galena	sphalerite	chalcopyrite	oxidation state	
60	61	BL	SH	F	20								frs	
61	62	BL	SH	F	20								frs	
62	63	BL	SH	F	20								frs	
63	64	BL	SH	F	20								frs	
64	65	BL	SH	F	20								frs	
65	66	BL	SH	F	20								frs	65.7 1 mm pyrite stringer at 60^{o}
66	67	BL	SH	F	20		1	1					frs	
67	68	BL	SH	F	20								frs	
68	69	BL	SH	F	20								frs	66.2 3mm calcite vein at 80^{o}
69	70	BL	SH	F	20								frs	
70	71	BL	SH	F	20								frs	
71	72	BL	SH	F	20								frs	
72	73	BL	SH	F	20								frs	
73	74	BL	SH	F	20								frs	
74	75	BL	SH	F	20								frs	
75	76	BL	SH	F	20								frs	
76	77	BL	SH	F	20		5						frs	
77	78	BL	SH	F	20								frs	
78	79	BL	SH	F	20								frs	
79	80	BL	SH	F	20								frs	
80	81	BL	SH	F	20								frs	
81	82	BL	SH	F	20								frs	
82	83	BL	SH	F	20								frs	
83	84	BL	SH	F	20								frs	
84	85	BL	SH	F	20								frs	
85	86	BL	SH	F	20								frs	
86	87	BL	SH	F	20								frs	
87	88	BL	SH	F	20				1				frs	87.5 and 88.6 pyrrhotite blebs
88	89	BL	SH	F	20				1				frs	
89	90	BL	SH	F	20								frs	

depth m		character			% alteration & vein minerals					% ore minerals				comments
from	to	colour	lithology	grain size	graphite	quartz	carbonate	pyrite	pyrrhotite	galena	sphalerite	chalcopyrite	oxidation state	
90	91	BL	SH	F	20			1					frs	90.8 pyrite bleb
91	92	BL	SH	F	20			1					frs	
92	93	BL	SH	F	20			1					frs	
93	94	BL	SH	F	20			1					frs	
94	95	BL	SH	F	20			1					frs	
95	96	BL	SH	F	20			1					frs	
96	97	BL	SH	F	20			1					frs	96.9, 99.7, 100.2 pyrite in drillers breaks
97	98	BL	SH	F	20			1					frs	
98	99	BL	SH	F	20			1					frs	
99	100	BL	SH	F	20			1					frs	
100	101	BL	SH	F	20			1	2				frs	
101	102	BL	SH	F	20			1	2				frs	
102	103	BL	SH	F	20			1	2				frs	102.3, 102.6, 105.0, 105.6 pyrrhotite blebs
103	104	BL	SH	F	20			1	2				frs	
104	105	BL	SH	F	20			1	2				frs	
105	106	BL	SH	F	20			1	2				frs	
106	107	BL	SH	F	20			1					frs	
107	108	BL	SH	F	20			1					frs	108.2 1mm pyrite vein at 50^{o}
108	109	BL	SH	F	20			1					frs	
109	110	BL	SH	F	20			1					frs	
110	111	BL	SH	F	20			1					frs	
111	112	BL	SH	F	20			1					frs	112.3, 113.0, 113.7 pyrite on fracture plane
112	113	BL	SH	F	20			1					frs	
113	114	BL	SH	F	20			1					frs	
114	115	BL	SH	F	20			1					frs	114.8 pyrite and possible azurite on fracture plane
115	116	BL	SH	F	20			1					frs	
116	117	BL	SH	F	20			1					frs	
117	118	BL	SH	F	20			1					frs	
118	119	BL	SH	F	20			1					frs	117.5 pyrite on fracture plane
119	120	BL	SH	F	20			1					frs	

depth m		character			% alteration & vein minerals					% ore minerals				comments
from	to	colour	lithology	grain size	graphite	quartz	carbonate	pyrite	pyrrhotite	galena	sphalerite	chalcopyrite	oxidation state	
120	121	BL	SH	F	20			1	2				frs	
121	122	BL	SH	F	20			1	2				frs	121.0 20mm irregular pyrrhotite mass
122	123	BL	SH	F	20			1	2				frs	
123	124	BL	SH	F	20			1	2				frs	124-125 pyrrhotite in ptygmatic fold
124	125	BL	SH	F	20			1	2				frs	125.2 pyrite/calcite vein
125	126	BL	SH	F	20			1	2				frs	
126	127	BL	SH	F	20			1	2				frs	
127	128	BL	SH	F	20			1	2				frs	
128	129	BL	SH	F	20			1	2				frs	
129	130	BL	SH	F	20			1	2				frs	
130	131	BL	SH	F	20			1	2				frs	
131	132	BL	SH	F	20			1	2				frs	131-132 thin pyrrhotite blebs
132	133	BL	SH	F	20			1	2				frs	
133	134	BL	SH	F	20			1	2				frs	
134	135	BL	SH	F	20			1	2				frs	
135	136	BL	SH	F	20			1	2				frs	134-135 20mm pyrite, pyrrhotite and calcite vein
136	137	BL	SH	F	20			1	2				frs	
137	138	BL	SH	F	20			1	2				frs	137.8 pyrrhotite blebs
138	139	BL	SH	F	20			1	2				frs	138.5, 138.6, 138.8 pyrrhotite blebs
139	140	BL	SH	F	20			1	2				frs	
140	141	BL	SH	F	20			1	2				frs	
141	142	BL	SH	F	20			1	2				frs	141-142 calcite stringers
142	143	BL	SH	F	20			1	2				frs	
143	144	BL	SH	F	20			1	2				frs	
144	145	BL	SH	F	20			1	2				frs	144 pyrite on fracture plane
145	146	BL	SH	F	20			1	2				frs	145.4 irregular calcite vein 20-50mm with microfaulting
146	147	BL	SH	F	20			1	2				frs	146.3 fracture with pyrite and ? azurite
147	148	BL	SH	F	20			1	2				frs	148.8 calcite vein
148	149	BL	SH	F	20			1	2				frs	
149	150	BL	SH	F	20			1	2				frs	

depth m		character			% alteration & vein minerals					% ore minerals				comments
from	to	colour	lithology	grain size	graphite	quartz	carbonate	pyrite	pyrrhotite	galena	sphalerite	chalcopyrite	oxidation state	
150	151	BL	SH	F	20			1	2				frs	
151	152	BL	SH	F	20			1	2				frs	1 mm pyrite stringer
152	153	BL	SH	F	20			1	2				frs	highly fractured zone
153	154	BL	SH	F	20			1	2				frs	1mm pyrite stringer
154	155	BL	SH	F	20			1	2				frs	
155	156	BL	SH	F	20			1	2				frs	
156	157	BL	SH	F	20			1	2				frs	irregular calcite, pyrite and pyrrhotite vein to 50mm
157	158	BL	SH	F	20			1	2				frs	
158	159	BL	SH	F	20			1	2				frs	
159	160	BL	SH	F	20			1	2				frs	159.3 3mm pyrite vein
160	161	BL	SH	F	20			1	2				frs	160.0 , 162.3 pyrrhotite blebs
161	162	BL	SH	F	20			1	2				frs	
162	163	BL	SH	F	20			1	2				frs	
163	164	BL	SH	F	20			1	2				frs	
164	165	BL	SH	F	20			1	2				frs	
165	166	BL	SH	F	20			1	2				frs	
166	167	BL	SH	F	20			1	2				frs	
167	168	BL	SH	F	20			1	2				frs	
168	169	BL	SH	F	20			1	2				frs	168.8 6mm beaded calcite vein at 30^{o}
169	170	BL	SH	F	20			1	2				frs	
170	171	BL	SH	F	20			1	2				frs	
171	172	BL	SH	F	20			1	2				frs	
172	173	BL	SH	F	20			1	2				frs	
173	174	BL	SH	F	20			1	2				frs	173.0 5mm pyrite vein 173.1
174	175	BL	SH	F	20			1	2				frs	173.1 10mm pyrrhotite vein
175	176	BL	SH	F	20			1	2				frs	
176	177	GR	SS	M	0			0	0				frs	175.8-172.2 light grey medium grained sandstone
177	178	BL	SH	F	20			1	2				frs	
178	179	BL	SH	F	20			1	2				frs	172.2-179.9 massive shale
179	180	BL	SH	F	20			1	2				frs	179.9-180.7 light grey medium grained sandstone

depth m		character			% alteration & vein minerals					% ore minerals				comments
from	to	colour	lithology	grain size	graphite	quartz	carbonate	pyrite	pyrrhotite	galena	sphalerite	chalcopyrite	oxidation state	
180	181	GR	SS	M	0			1	2				frs	180.8 beaded calcite vein to 20mm at 30°
181	182	BL	SH	F	20			1	2				frs	182.4-183.2 massive black shale
182	183	BL	SH	F	20			1	2				frs	183.2-183.4 light grey sandstone with copper coloured crystals
183	184	BL	SH	F	20			1	2				frs	
184	185	BL	SH	F	20			1	2				frs	
185	186	BL	SH	F	20			1	2				frs	
186	187	BL	SH	F	20			1	2				frs	
187	188	BL	SH	F	20			1	2				frs	
188	189	BL	SH	F	20			1	2				frs	189.0 beaded calcite vein at 30°
189	190	BL	SH	F	20			1	2				frs	189.7-190.3 badly fractured zone
190	191	BL	SH	F	20			1	2				frs	
191	192	BL	SH	F	20			1	2				frs	186.8-191.2 thin discontinuous stringers of calcite
192	193	BL	SH	F	20			1	2				frs	192.3-192.7 low angle pyrrhotite vein to 10mm
193	194	BL	SH	F	20			1	2				frs	
194	195	BL	SH	F	20			1	2				frs	
195	196	BL	SH	F	20			1	2				frs	
196	197	BL	SH	F	20			1	2				frs	
197	198	BL	SH	F	20			1	2				frs	198.0 pyrite vein to 2mm
198	199	BL	SH	F	20			1	2				frs	
199	200	BL	SH	F	20			1	2				frs	
200	201	BL	SH	F	20			1	2				frs	200.0-204.0 scattered pyrrhotite
201	202	BL	SH	F	20			1	2				frs	
202	203	BL	SH	F	20			1	2				frs	205.0-205.2 grey sandstone
203	204	BL	SH	F	20			1	2				frs	
204	205	BL	SH	F	20			1	2				frs	
205	206	BL	SH	F	20			1	2				frs	
206	207	GR	SS	M	0			0	0				frs	207.8-208.2 grey sandstone, with rectangular blocks of black
207	208	BL	SH	F	20			1	2				frs	shale at the base, could be sedimentary rip up stucture
208	209	BL	SH	F	20			1	2				frs	
209	210	GR	SS	M	0			1	2				frs	

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depth m		character			% alteration & vein minerals					% ore minerals				comments
from	to	colour	lithology	grain size	graphite	quartz	carbonate	pyrite	pyrrhotite	galena	sphalerite	chalcopyrite	oxidation state	
210	211	BL	SH	F	20				1				frs	
211	212	BL	SH	F	20				1				frs	
212	213	BL	SH	F	20				1				frs	
213	214	BL	SH	F	20				1				frs	213.3 slickensides
214	215	BL	SH	F	20				1				frs	
215	216	BL	SH	F	20				1				frs	
216	217	BL	SH	F	20				1				frs	
217	218	BL	SH	F	20				1				frs	216-217 numerous pyrrhotite stringers
218	219	BL	SH	F	20				1				frs	
219	220	BL	SH	F	20				1				frs	
220	221	BL	SH	F	20				1				frs	219.4 10cm sandstone layer
221	222	BL	SH	F	20				1				frs	
222	223	BL	SH	F	20				3				frs	222.6-227 numerous pyrrhotite veins
223	224	BL	SH	F	20				3				frs	
224	225	BL	SH	F	20				3				frs	
225	226	BL	SH	F	20				3				frs	
226	227	BL	SH	F	20				3				frs	
227	228	BL	SH	F	20				3				frs	
228	229	BL	SH	F	20				1				frs	
229	230	BL	SH	F	20				1				frs	
230	231	BL	SH	F	20				1				frs	
231	232	BL	SH	F	20				1				frs	
232	233	BL	SH	F	20				1				frs	
233	234	BL	SH	F	20				1				frs	
234	235	BL	SH	F	20	2		2	1				frs	234.8 pyrite in quartz vein
235	236	BL	SH	F	20				1				frs	235.5-239.5 several thin calcite veins
236	237	BL	SH	F	20				1				frs	
237	238	BL	SH	F	20				1				frs	
238	239	BL	SH	F	20				1				frs	
239	240	BL	SH	F	20				1				frs	

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depth m		character			% alteration & vein minerals					% ore minerals				comments
from	to	colour	lithology	grain size	graphite	quartz	carbonate	pyrite	pyrrhotite	galena	sphalerite	chalcopyrite	oxidation state	
240	241	BL	SH	F	30								frs	
241	242	BL	SH	F	30				2				frs	
242	243	BL	SH	F	30								frs	242.4 10mm quartz vein with pyrrhotite and calcite
243	244	BL	SH	F	30			1	1				frs	
244	245	BL	SH	F	30			1	1				frs	244.3-245.3 broken core with slickensides
245	246	BL	SH	F	30			1	1				frs	
246	247	BL	SH	F	30			1	1				frs	243.0-247.0 a few thin pyrite and pyrrhotite stringers
247	248	BL	SH	F	30								frs	
248	249	BL	SH	F	30								frs	
249	250	BL	SH	F	30								frs	
250	251	BL	SH	F	30								frs	250.8 10mm light coloured layer at 15^{o}
251	252	BL	SH	F	30								frs	
252	153	BL	SH	F	30								frs	252.5-256.6 thin pyrrhotite stringers at 30^{o}
253	254	BL	SH	F	30								frs	
254	255	BL	SH	F	30								frs	
255	256	BL	SH	F	30								frs	
256	257	BL	SH	F	30								frs	
257	258	BL	SH	F	30								frs	257.4 1mm pyrite stringers
258	259	BL	SH	F	30								frs	
259	260	BL	SH	F	30								frs	
260	261	BL	SH	F	30								frs	
261	262	BL	SH	F	30								frs	261 minor pyrrhotite
262	263	BL	SH	F	30								frs	
263	264	BL	SH	F	30								frs	
264	265	BL	SH	F	30								frs	
265	266	BL	SH	F	30								frs	
266	267	BL	SH	F	30								frs	
267	268	BL	SH	F	30								frs	
268	269	BL	SH	F	30								frs	269.0 1mm calcite stringers
269	270	BL	SH	F	30								frs	

depth m		character			% alteration & vein minerals					% ore minerals				comments
from	to	colour	lithology	grain size	graphite	quartz	carbonate	pyrite	pyrrhotite	galena	sphalerite	chalcopyrite	oxidation state	
270	271	BL	SH	F	30								frs	
271	272	BL	SH	F	30								frs	
272	273	BL	SH	F	30								frs	
273	274	BL	SH	F	30								frs	
274	275	BL	SH	F	30				1				frs	274.1-278.5 minor pyrrhotite
275	276	BL	SH	F	30				1				frs	
276	277	BL	SH	F	30				1				frs	
277	278	BL	SH	F	30				1				frs	
278	279	BL	SH	F	30				1				frs	
279	280	BL	SH	F	30								frs	
280	281	BL	SH	F	30								frs	279.5-283.7 siliceous black shale
281	282	BL	SH	F	30								frs	
282	283	BL	SH	F	30								frs	
283	284	BL	SH	F	30								frs	282-283 5mm pyrite & pyrrhotite vein
284	285	BL	SH	F	30			1	1				frs	283.7-286.6 numerous small veins of pyrrhotite and pyrite
285	286	BL	SH	F	30			1	1				frs	
286	287	GR	SS	M	0	30		1	1				frs	286.6-287.2 grey medium grained sandstone with bedding planes
287	288	BL	SH	F	30								frs	at 40^{o}
288	289	BL	SH	F	30								frs	
289	290	BL	SH	F	30								frs	
290	291	BL	SH	F	30								frs	
291	292	BL	SH	F	30								frs	
292	293	BL	SH	F	30								frs	
293	294	BL	SH	F	30								frs	
294	295	BL	SH	F	30								frs	295.9-300.1 minor pyrite, pyrrhotite and calcite veins
295	296	BL	SH	F	30								frs	
296	297	BL	SH	F	30			1	1				frs	
297	298	BL	SH	F	30			1	1				frs	
298	299	BL	SH	F	30			1	1				frs	
299	300	BL	SH	F	30			1	1				frs	

depth m		character			% alteration & vein minerals					% ore minerals				comments
from	to	colour	lithology	grain size	graphite	quartz	carbonate	pyrite	pyrrhotite	galena	sphalerite	chalcopyrite	oxidation state	
300	301	BL	SH	F	30			2	2				frs	
301	302	BL	SH	F	30			2	2				frs	301.9 pyrite and pyrrhotite veins to 5mm
302	303	BL	SH	F	30			2	2				frs	303-304 scattered pyrrhotite blebs
303	304	BL	SH	F	30			2	2				frs	305 pyrrhotite vein at 45°
304	305	BL	SH	F	30			2	2				frs	305.8-306.9 broken core
305	306	BL	SH	F	30			2	2				frs	307.7 10mm pyrrhotite vein at 55°
306	307	BL	SH	F	30			2	2				frs	309.2-311.0 shale is more siliceous and slightly coarser
307	308	BL	SH	F	30			2	2				frs	309.3 5mm pyrrhotite vein with microfaulting
308	309	BL	SH	F	30			2	2				frs	310.6 5mm pyrite vein at 30°
309	310	BL	SH	M	20	15		2	2				frs	314.5 10mm pyrite/ pyrrhotite vein at 20°
310	311	BL	SH	M	20	15		2	2				frs	316.6 5mm pyrite/ pyrrhotite vein at 20°
311	312	BL	SH	F	30			2	2				frs	319.6 calcite stringer with microfaulting
312	313	BL	SH	F	30			2	2				frs	320.4 pyrrhotite vein at 45°
313	314	BL	SH	F	30			2	2				frs	
314	315	BL	SH	F	30			2	2				frs	
315	316	BL	SH	F	30			2	2				frs	
316	317	GR	SH	F	30			2	2				frs	
317	318	BL	SH	F	30			2	2				frs	
318	319	BL	SH	F	30			2	2				frs	
319	320	BL	SH	F	30			2	2				frs	
320	321	BL	SH	F	30			2	2				frs	
321	322	BL	SH	F	30			2	2				frs	
322	323	BL	SH	F	30			2	2				frs	
323	324	BL	SH	F	30			2	2				frs	
324	325	BL	SH	F	30			2	2				frs	325.0-329.4 numerous calcite stringers at 60°
325	326	BL	SH	F	30			2	2				frs	327.6 pyrite stringer at 60°
326	327	BL	SH	F	30			2	2				frs	
327	328	BL	SH	F	30			2	2				frs	
328	329	BL	SH	F	30			2	2				frs	
329	330	BL	SH	F	30			2	2				frs	

Geologist:- SEAN KENNEDY Date Logged:- August 2007

depth m		character			% alteration & vein minerals					% ore minerals				comments
from	to	colour	lithology	grain size	graphite	quartz	carbonate	pyrite	pyrrhotite	galena	sphalerite	chalcopyrite	oxidation state	
330	331	BL	SH	F	20	15		1	1				frs	
331	332	BL	SH	F	20	15		1	1				frs	
332	333	BL	SH	F	20	15		1	1				frs	332.8 1mm pyrite stringers
333	334	BL	SH	F	20	15		1	1				frs	
334	335	BL	SH	F	20	15		1	1				frs	333.4-337.7 siliceous black shale
335	336	BL	SH	F	20	15		1	1				frs	
336	337	BL	SH	F	20	15		1	1				frs	
337	338	BL	SH	F	20	15		1	1				frs	338.0 5 mm pyrrhotite vein
338	339	BL	SH	F	20	15		1	1				frs	
339	340	BL	SH	F	20	15		1	1				frs	
340	341	BL	SH	F	20	15		1	1				frs	
341	342	BL	SH	F	20	15		1	1				frs	341.6 fold in calcite vein
342	343	BL	SH	F	20	15		1	1				frs	342.9 6mm pyrrhotite vein
343	344	BL	SH	F	20	15		1	1				frs	343.3 5mm pyrrhotite vein
344	345	BL	SH	F	20	15		1	1				frs	345.0 pyrrhotite bleb
345	346	BL	SH	F	20	15		1	1				frs	345.6 microfaulted calcite vein
346	347	BL	SH	F	20	15		1	1				frs	348.0 50mm light grey bed at 25^{o}
347	348	BL	SH	F	20	15		1	1				frs	
348	349	BL	SH	F	20	15		1	1				frs	
349	350	BL	SH	F	20	15		1	1				frs	
350	351	BL	SH	F	20	15		1	1				frs	
351	352	BL	SH	F	20	15		1	1				frs	351.0, 351.7 and 353.0 pyrrhotite blebs
352	353	BL	SH	F	20	15		1	1				frs	352.5 slickensides
353	354	BL	SH	F	20	15		1	1				frs	
354	355	BL	SH	F	20	15		1	1				frs	
355	356	BL	SH	F	20	15		1	1				frs	
356	357	BL	SH	F	20	15		1	1				frs	
357	358	BL	SH	F	20	15		1	1				frs	
358	359	BL	SH	F	20	15		1	1				frs	
359	360	BL	SH	F	20	15		1	1				frs	

Geologist:- SEAN KENNEDY Date Logged:- August 2007

depth m		character			% alteration & vein minerals					% ore minerals				comments
from	to	colour	lithology	grain size	graphite	quartz	carbonate	pyrite	pyrrhotite	galena	sphalerite	chalcopyrite	oxidation state	
360	361	BL	SH	F	20	15		1	1				frs	
361	362	BL	SH	F	20	15		1	1				frs	
362	363	BL	SH	F	20	15		1	1				frs	362.1 3mm pyrrhotite vein parallel to calcite veins at 45°
363	364	BL	SH	F	20	15		1	1				frs	364.7-366.7 about 15x2mm calcite veins at 45°
364	365	BL	SH	F	20	15		1	1				frs	
365	366	BL	SH	F	20	15		1	1				frs	
366	367	BL	SH	F	20	15		1	1				frs	
367	368	BL	SH	F	20	15		1	1				frs	368.6 fine bedding bands
368	369	BL	SH	F	20	15		1	1				frs	
369	370	BL	SH	F	20	15		1	1				frs	370.0 3mm pyrite vein
370	371	BL	SH	F	20	15		1	1				frs	372.9 10mm pyrrhotite and calcite vein
371	372	BL	SH	F	20	15		1	1				frs	
372	373	BL	SH	F	20	15		1	1				frs	
373	374	BL	SH	F	20	15		1	1				frs	
374	375	BL	SH	F	20	15		1	1				frs	375.0-376.0 numerous 1mm calcite stringers at 45°
375	376	BL	SH	F	20	15		1	1				frs	
376	377	BL	SH	F	20	15		1	1				frs	377.7-381.4 numerous thin pyrrhotite veins at 45°
377	378	BL	SH	F	20	15		1	1				frs	382.7 15mm calcite vein at 45°
378	379	BL	SH	F	20	15		1	1				frs	
379	380	BL	SH	F	20	15		1	1				frs	
380	381	BL	SH	F	20	15		1	1				frs	
381	382	BL	SH	F	20	15		1	1				frs	
382	383	BL	SH	F	20	15		1	1				frs	383.0 slickensides
383	384	BL	SH	F	20	15		1	1				frs	
384	385	BL	SH	F	20	15		1	1				frs	
385	386	BL	SH	F	20	15		1	1				frs	
386	387	BL	SH	F	20	15		1	1				frs	387.0-388.2 broken and slickensided core
387	388	BL	SH	F	20	15		1	1				frs	388.1 15cm brecciated core
388	389	BL	SH	F	20	15		1	1				frs	
389	390	BL	SH	F	20	15		1	1				frs	

LODESTONE EXPLORATION FRANKTON PROJECT GEOLOGY LOG HOLE ID:- FS2

Geologist:- SEAN KENNEDY Date Logged:- August 2007

depth m		character			% alteration & vein minerals					% ore minerals				comments
from	to	colour	lithology	grain size	graphite	quartz	carbonate	pyrite	pyrrhotite	galena	sphalerite	chalcopyrite	oxidation state	
390	391	BL	SH	F	20	15		1	1				frs	
391	392	BL	SH	F	20	15		1	1				frs	
392	393	BL	SH	F	20	15		1	1				frs	393.2-394.2 0.7m core loss
393	394	BL	SH	F	20	15		1	1				frs	
394	395	BL	SH	F	20	15		1	1				frs	395.2 10mm calcite veins showing flexure
395	396	BL	SH	F	20	15		1	1				frs	396.8 25mm quartz and calcite layer
396	397	BL	SH	F	20	15		1	1				frs	
397	398	BL	SH	F	20	15		1	1				frs	
398	399	BL	SH	F	20	15		1	1				frs	399.2 40mm grey/green sandstone layer at 45^{o}
399	400	BL	SH	F	20	15		1	1				frs	400.9 80mm white sandstone layer at 45^{o}
400	401	BL	SH	F	20	15		1	1				frs	
401	402	BL	SH	F	20	15		1	1				frs	
402	403	BL	SH	F	20	15		1	1				frs	
403	404	BL	SH	F	20	15		1	1				frs	403.3 beaded calcite vein at 30^{o}
404	405	BL	SH	F	20	15		1	1				frs	
405	406	BL	SH	F	20	15		1	1				frs	
406	407	BL	SH	F	20	15		1	1				frs	407.4 100mm grey/green sandstone layer
407	408	BL	SH	F	20	15		1	1				frs	
408	409	BL	SH	F	20	15		1	1				frs	
409	410	BL	SH	F	20	15		1	1				frs	410.6-411.4 numerous thin calcite veins at 50^{o}
410	411	BL	SH	F	20	15		1	1				frs	
411	412	BL	SH	F	20	15		2	2				frs	411.4-415.4 numerous thin calcite veins at 45^{o}-60^{o}. Thin
412	413	BL	SH	F	20	15		2	2				frs	pyrrhotite veins at 413.3, 413.5, 404.2, 415.3
413	414	BL	SH	F	20	15		2	2				frs	
414	415	BL	SH	F	20	15		2	2				frs	415.4-419.7 numerous microfaulted thin calcite veins
415	416	BL	SH	F	20	15		2	2				frs	
416	417	BL	SH	F	20	15		2	2				frs	
417	418	BL	SH	F	20	15		2	2				frs	
418	419	BL	SH	F	20	15		2	2				frs	
419	420	BL	SH	F	20	15		2	2				frs	

Geologist:- SEAN KENNEDY Date Logged:- August 2007

depth m		character			% alteration & vein minerals					% ore minerals				comments
from	to	colour	lithology	grain size	graphite	quartz	carbonate	pyrite	pyrrhotite	galena	sphalerite	chalcopyrite	oxidation state	
420	421	BL	SH	F	15	20								420-436 sandy shale
421	422	BL	SH	F	15	20								420.0 bedding planes at 60°
422	423	BL	SH	F	15	20								
423	424	BL	SH	F	15	20								
424	425	BL	SH	F	15	20								
425	426	BL	SH	F	15	20								424.8 30mm quartz vein at 80°
426	427	BL	SH	F	15	20								
427	428	BL	SH	F	15	20								
428	429	BL	SH	F	15	20								426.2 and 428.2 sheared black shale at 65°
429	430	BL	SH	F	15	20								
430	431	BL	SH	F	15	20								
431	432	BL	SH	F	15	20								
432	433	BL	SH	F	15	20								
433	434	BL	SH	F	15	20								
434	435	BL	SH	F	15	20								
435	436	BL	SH	F	15	20								
436	437	GR	SL	F	5	40	30							436.0 commencement of grey calcareous finely bedded siltstone,
437	438	GR	SL	F	5	40	30							probably the lower unit of the Karinya Shale
438	439	GR	SL	F	5	40	30							
439	440	GR	SL	F	5	40	30							436.5 bedding plane at 50° with beta angle of 130°, indicating a
440	441	GR	SL	F	5	40	30							southwesterly dip
441	442	GR	SL	F	5	40	30							
442	443	GR	SL	F	5	40	30							
443	444	GR	SL	F	5	40	30							
444	445	GR	SL	F	5	40	30							
445	445	GR	SL	F	5	40	30							
445	447	GR	SL	F	5	40	30							
447	448	GR	SL	F	5	40	30							
448	449	GR	SL	F	5	40	30							
449	450	GR	SL	F	5	40	30							

depth m		character			% alteration & vein minerals					% ore minerals				comments
from	to	colour	lithology	grain size	graphite	quartz	carbonate	pyrite	pyrrhotite	galena	sphalerite	chalcopyrite	oxidation state	
450	451	GR	SL	F										449.9-474.4 grey finely bedded calcareous siltstone
451	452	GR	SL	F										
452	453	GR	SL	F										
453	454	GR	SL	F										
454	455	GR	SL	F										
455	456	GR	SL	F										
456	457	GR	SL	F										
457	458	GR	SL	F										
458	459	GR	SL	F										
459	460	GR	SL	F										
460	461	GR	SL	F										
461	462	GR	SL	F										
462	463	GR	SL	F										
463	464	GR	SL	F										
464	465	GR	SL	F										
465	466	GR	SL	F										
466	467	GR	SL	F										
467	468	GR	SL	F										
468	469	GR	SL	F										
469	470	GR	SL	F										
470	471	GR	SL	F										
471	472	GR	SL	F										
472	473	GR	SL	F										
473	474	GR	SL	F										474.4-476.2 massive siliceous limestone - very hard
474	475	WH	LS	F		30	8							476 probable base of Karinya and top of Backstairs Passage Fm
475	476	WH	LS	F		30	80							476.2-480.5 grey medium grained quartzite
476	477	GR	SSQ	M		80								
477	478	GR	SSQ	M		80								
478	479	GR	SSQ	M		80								
479	480	GR	SSQ	M		80								

Geologist:- SEAN KENNEDY Date Logged:- August 2007

depth m		character			% alteration & vein minerals					% ore minerals				comments
from	to	colour	lithology	grain size	graphite	quartz	carbonate	pyrite	pyrrhotite	galena	sphalerite	chalcopyrite	oxidation state	
480	481	GR	SSQ	M		80								479.0-480.5 grey quartzite
481	482	GR	SH	F		80								480.5-482.0 grey shale
482	483	GR	SSQ	M		80								
483	484	GR	SSQ	M		80								
484	485	GR	SSQ	M		80								
485	486	GR	SSQ	M		80								482.0-498.5 grey finely bedded quartzite
486	487	GR	SSQ	M		80								486.6-487.4 low angle 40mm barren quartzite vein
487	488	GR	SSQ	M		80								
488	489	GR	SSQ	M		80								
489	490	GR	SSQ	M		80								
490	491	GR	SSQ	M		80						<1		492.7 chalcopyrite crystal on quartz vein margin
491	492	GR	SSQ	M		80								
492	493	GR	SSQ	M		80								
493	494	GR	SSQ	M		80								
494	495	GR	SSQ	M		80								
495	496	GR	SSQ	M		80								
496	497	GR	SSQ	M		80								498.2 ?fluorite in thin veins
497	498	GR	SSQ	M		80								498.5-499.3 grey quartzite breccia
498	499	GR	SSQ	M		80								499.3-500.0 grey finely bedded quartzite
499	500	GR	SSQ	M		80								500.0-500.7 quartzite breccia
500	501	GR	SSQ	M		80								500.7-508.3 grey finely bedded quartzite
501	502	GR	SSQ	M		80								
502	503	GR	SSQ	M		80								
503	504	GR	SSQ	M		80								
504	505	GR	SSQ	M		80								
505	506	GR	SSQ	M		80								
506	507	GR	SSQ	M		80								
507	508	GR	SSQ	M		80								
508	509	GR	SSQ	M		80								509.4 slickensides
509	510	GR	SSQ	M		80								

LODESTONE EXPLORATION FRANKTON PROJECT GEOLOGY LOG HOLE ID:- FS2

Geologist:- SEAN KENNEDY Date Logged:- August 2007

depth m		character			% alteration & vein minerals					% ore minerals				comments
from	to	colour	lithology	grain size	graphite	quartz	carbonate	pyrite	pyrrhotite	galena	sphalerite	chalcopyrite	oxidation state	
510	511	GR	SSQ	M		80								508.3-516.5 grey medium grained quartzite
511	512	GR	SSQ	M		80								
512	513	GR	SSQ	M		80								
513	514	GR	SSQ	M		80								
514	515	GR	SSQ	M		80								
515	516	GR	SSQ	M		80								
516	517	GR	SSQ	M		80								516.5 END of HOLE

FRANKTON PROJECT FS2 STRUCTURE

from	to	struct_id	dip	mag	dip	alpha	beta	width	infill	conf-	preferred	frequency	intensity	comment
m	m			strike	quadrant			m	mineral	idence	reading	m		
15.6	18.3	bedding				30°								
18.7		bedding				30°								
23.5		bedding				45°								
31.7	35.0	fracture				30°								
39.3		fracture				45°								
43.6	44.5	fracture				45°								
48.8		fracture				35°								
57.3		vein				45°		0.002	py					
57.9		stringer				30°		0.001	py					
67.9		fracture				25°								
73.1		fracture				25°	305°							
76.9		fracture				30°		0.01						
78.7		stringer				20°	330°	0.001	ca					
79.8		stringer				35°	330°	0.001	ca					
80.5		stringer				50°	110°	0.002	ca					wavy stringer
108.0		stringer				50°		0.001	py					
112.3		fracture				15°								pyrite on fracture
113.0		stringer				40°		0.001	py					
113.7		fracture				25°								pyrite on fracture
114.8		fracture				10°								
116.7		fracture				10°								
117.5		fracture				15°								
123.2		bedding				40°								
124.2		vein				80°			po					pyrrhotite with ptygmatic
125.7		vein				30°		0.005	py,ca					pyrite/calcite vein (folding
129.2		bedding				30°								
134.5		vein				90°		0.002	py/po					
141.3		stringer				30°		0.002	ca					
144.0		fracture				85°			py					pyrite on plane
145.4		vein				45°		0.05						pyrite vein
146.3		fracture				10°			py					pyrrhotite on plane

FRANKTON PROJECT FS2 STRUCTURE

from	to	struct_id	dip	mag	dip	alpha	beta	width	infill	conf-	preferred	frequency	intensity	comment
m	m			strike	quadrant			m	mineral	idence	reading	m		
148.2		vein				80°	190°	0.005	ca					calcite vein with micro-
151.4		stringer				55°	140°	0.001	py					(faulting
153.6		stringer				30°		0.001	py					
159.3		stringer				35°	20°	0.003	ca					
162.7		stringer				30°	20°	0.01	ca					1mm calcite vein
164.3		fracture				20°								pyrite on fracture plane
165.8		fracture				20°								pyrite on fracture plane
168.8		vein				30°		0.006						6mm beaded calcite vein
173.0		vein				10°	0°		po					
173.1		vein				40°	05°		ca					calcite stringers
180.8		vein				30°			po					pyrrhotite vein
182.2		vein				15°			po					slickensides present
189.0		vein				30°			ca					beaded calcite vein
192.3	192.7	vein				20°		0.01	po					calcite vein with sphalerite
198.0		vein				25°	330°	0.002	py					(crystal
213.3		fracture				50°								slickensides
219.4	219.5	bedding				50°								sandstone & shale
224.9		vein				40°	255°	0.003	po					pyrrhotite vein
225.6		vein				35°	270°	0.003	po					pyrrhotite vein
226.0		vein				40°	230°	0.01	po					cluster of veins
234.8		vein				20°	010°	0.005	qz					pyrite & quartz vein
236.6		vein				50°			ca					
242.4		vein				15°	180°	0.01	ca, qz,po					
257.4		stringer				35°	270°	0.001	py					pyrite stringer
269.0		stringer				35°	170°		ca					calcite stringer
282.7		vein				60°			po, py					
286.8		bedding				40°								bedding in sandstone
305.0		vein				45°			po					(layer
307.7		vein				55°		0.01	po					
310.6		vein				30°			py					
314.5		vein				20°		0.01	py, po					

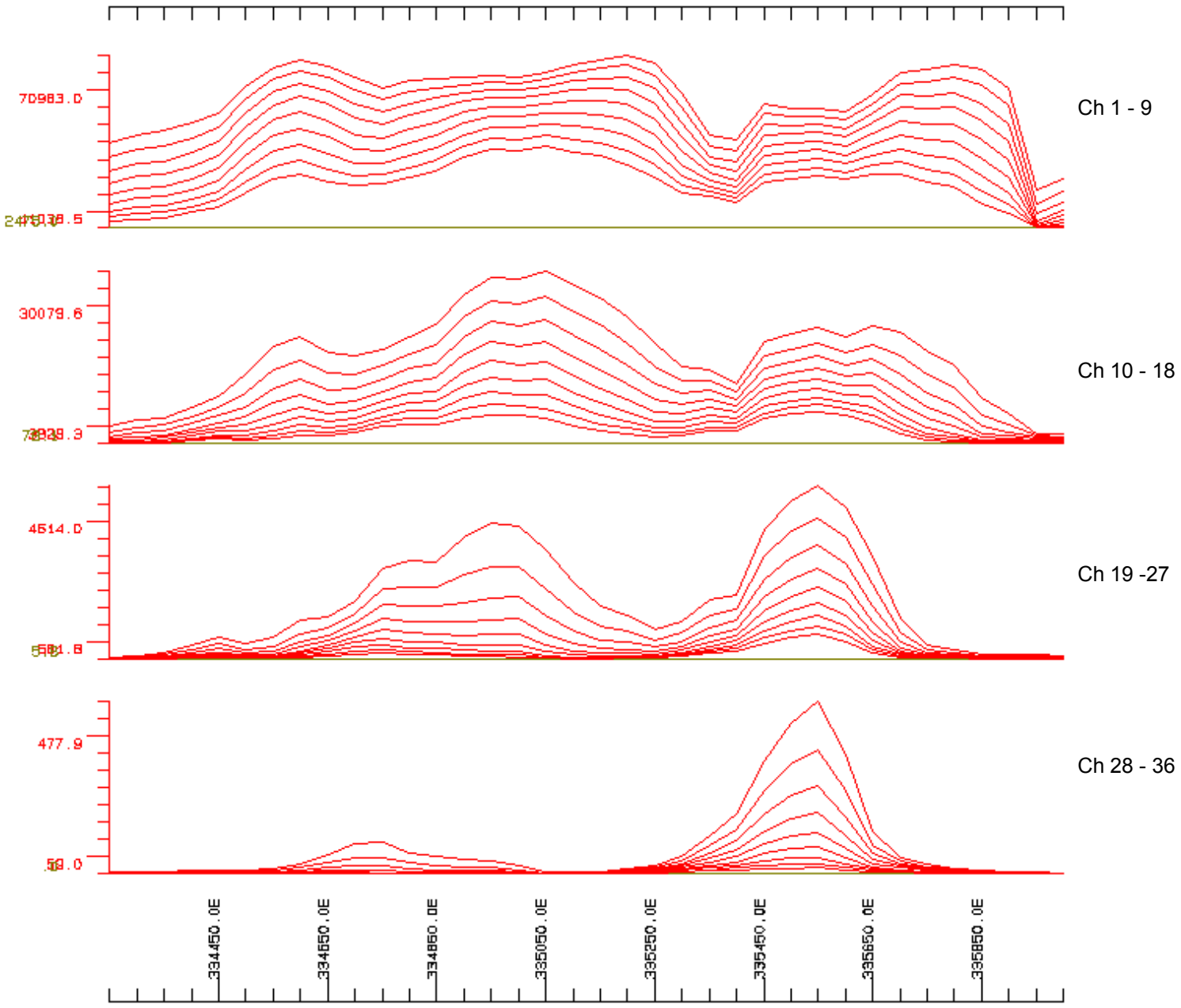
FRANKTON PROJECT FS2 STRUCTURE

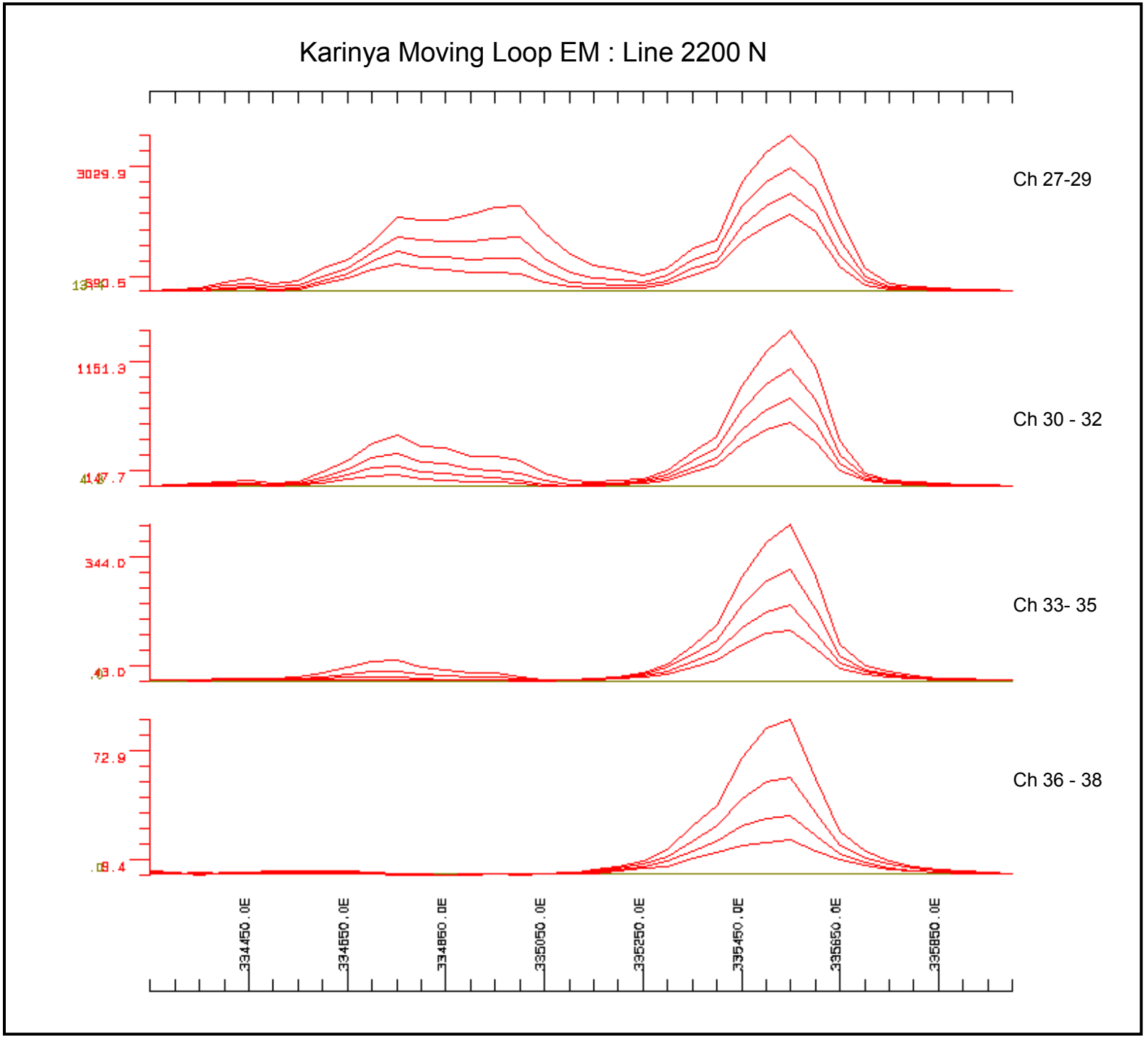
from	to	struct_id	dip	mag	dip	alpha	beta	width	infill	conf-	preferred	frequency	intensity	comment
m	m			strike	quadrant			m	mineral	idence	reading	m		
316.8		vein				20°		0.005	py					
319.6		stringer				55°		0.001	ca					shows microfaulting
320.4		vein				45°		0.005	po					
327.6		stringer				40°		0.001	py					
332.8		stringer				40°	0°	0.001	py					
337.7		vein				45°		0.005	py					
338.0		vein				60°		0.005	po					
341.6		vein						0.01	ca					calcite vein with en
342.9		vein						0.006	po					(echelon folding
345.6		vein						0.002	ca					microfaulted vein
347.4		vein				60°		0.005	po					
348.0		bedding				25°		0.05						light grey band
362.1		vein				45°		0.003	po					
364.7	366.7	veins				45°		0.002	ca					15 parallel veins
368.6		bedding				65°	0°							fine bedding bands
370.0		vein				50°	20°		py					
372.9		vein				40°	280°		po, ca					
375.0	376.0	stringers							ca					numerous calcite stringers
377.7	381.4	veins				45°			po					numerous thin veins
382.7		veins				45°		0.015	ca					
383.0		slickensds												
387.0	388.2	slickensds												
388.1		breccia												
389.5		bedding				50°								
390.3		bedding				60°								
390.7		bedding				60°								
392.1		bedding				60°								
396.8		vein				45°		0.01	qz, ca					
399.2		bedding				45°		0.04						
400.9		bedding				45°		0.08						
411.4	415.4	veins				45°-60°			ca					numerous calcite veins

FRANKTON PROJECT FS2 STRUCTURE

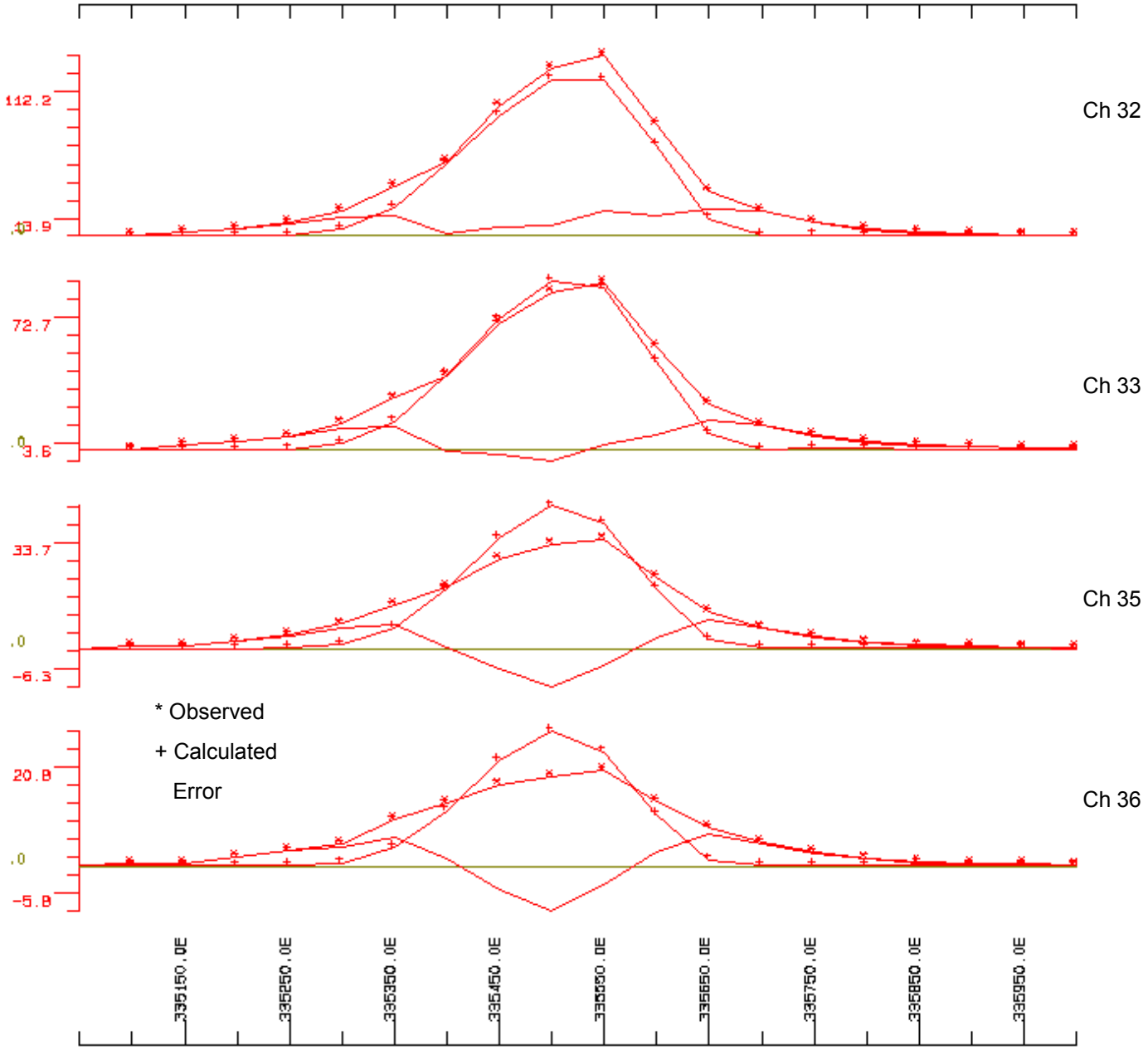
from	to	struct_id	dip	mag	dip	alpha	beta	width	infill	conf-	preferred	frequency	intensity	comment
m	m			strike	quadrant			m	mineral	idence	reading	m		
420.0		bedding				60°								
424.8		vein				80°		0.03	qz					
426.2		fracture				65°								sheared shale
428.2		fracture				65°								
436.5		bedding				50°	130°							bedding dipping south-
447.5		bedding				50°	335°							(west
461.0		bedding				50°								
463.6		bedding				45°	20°							
466.1		bedding				50°	15°							
469.5		vein				45°	190°	0.001	ca					
473.0		bedding				65°	360°							
474.2		bedding				60°	10°							
477.9		bedding				80°	135°							
478.8		vein				30°		0.01	qz					
481.5		bedding				65°			qz					
486.6	487.4	vein				20°	285°	0.04	qz					
491.3		vein				10°		0.005	qz					
491.7		vein				05°		0.01	qz					
492.7		vein				30°	290°	0.015	qz					
503.4		bedding				60°	115°							
506.2		bedding				55°	010°							
509.4		slickensds												
511.3		vein							qz					irregular quartz vein
511.8		vein							qz					irregular quartz vein
512.0		bedding				70°								

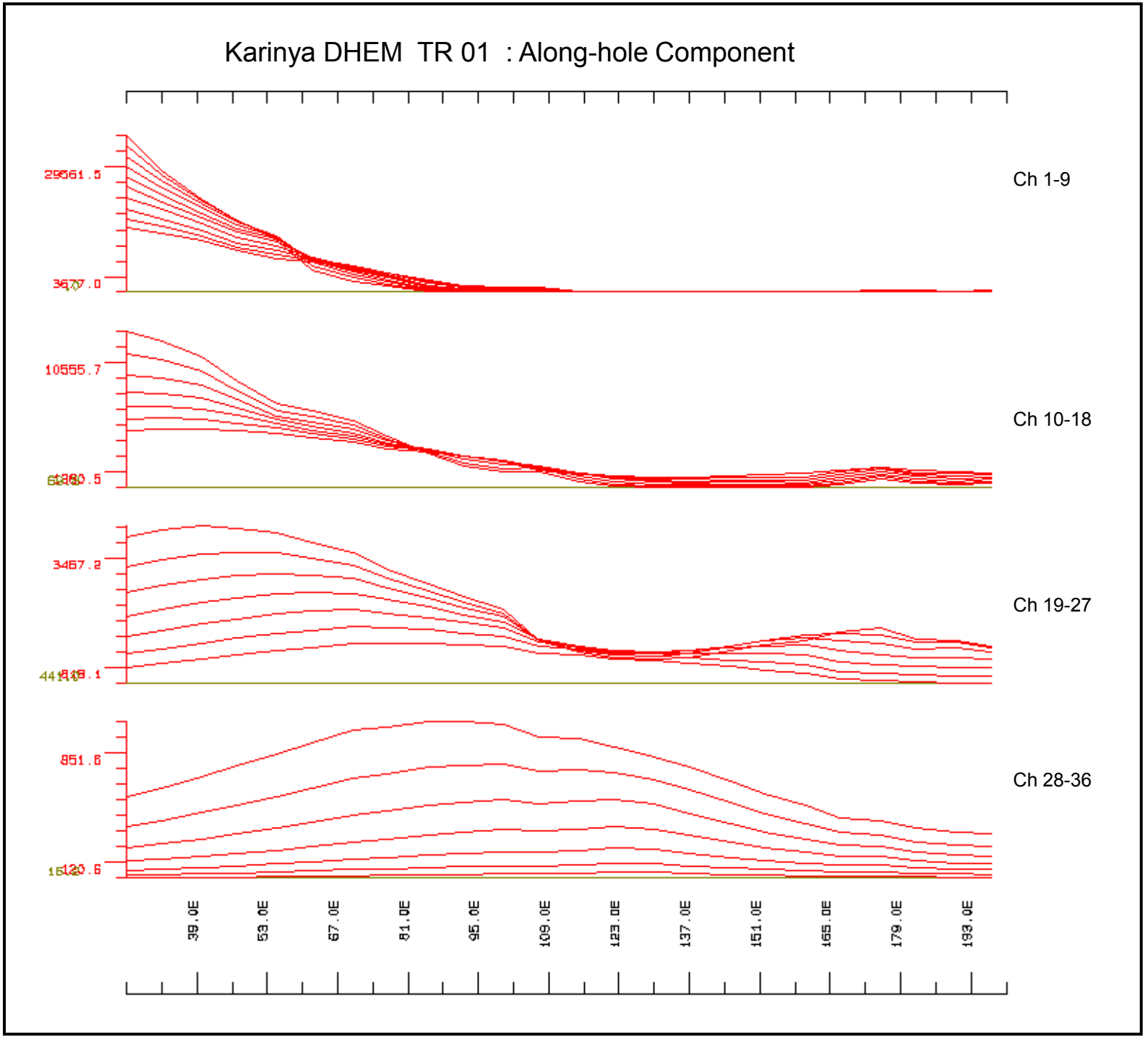
Karinya Moving Loop EM : Line 2200 N

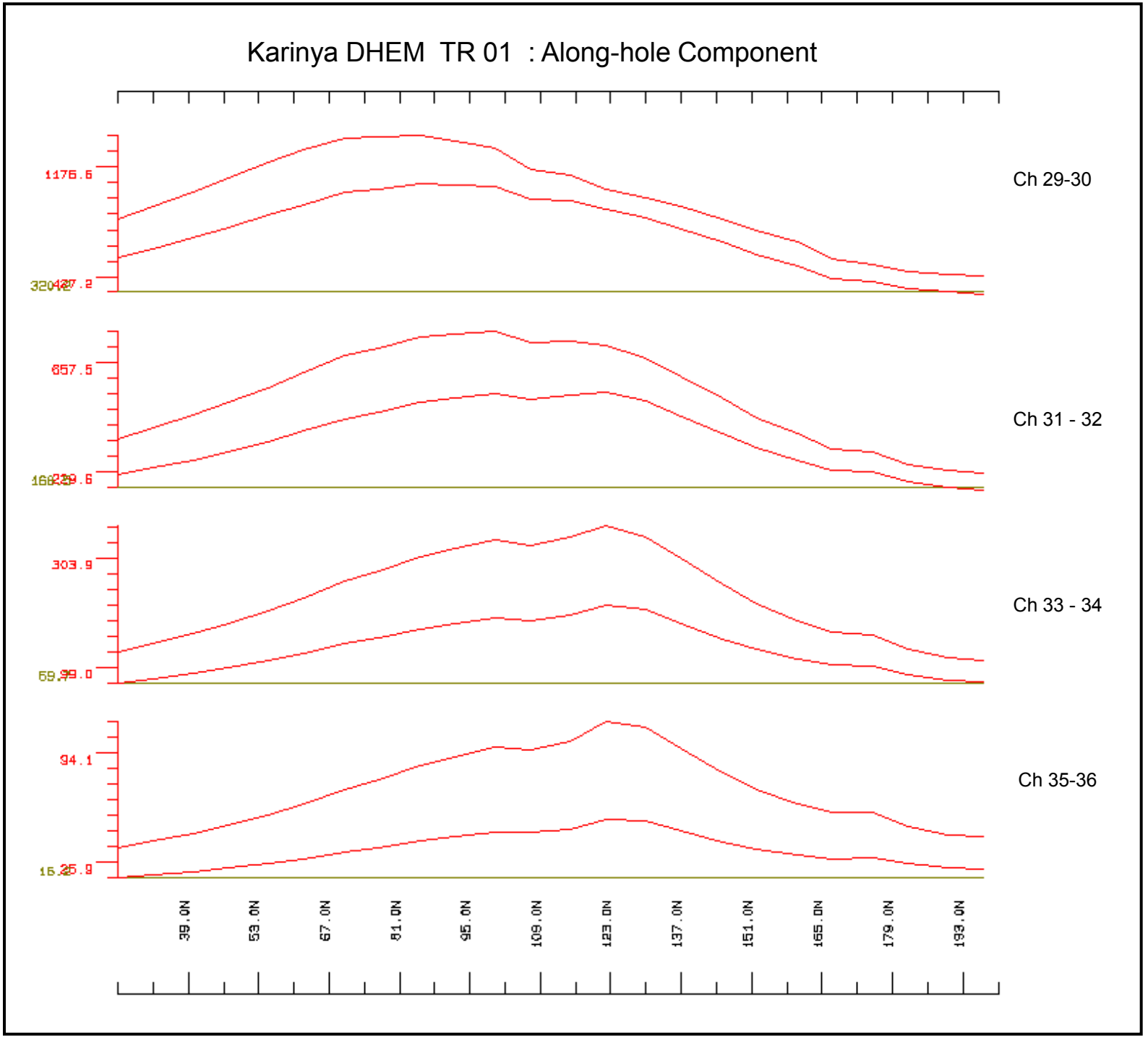



Karinya Moving Loop EM : Line 2200 N
3029.9
1151.3
344.0
72.9
Ch 27-29
Ch 30 - 32
Ch 33- 35
Ch 36 - 38
334450.0E
334650.0E
334850.0E
335050.0E
335250.0E
335450.0E
335650.0E
335850.0E

Karinya Moving Loop EM : Observed vs Calculated Response




Karinya DHEM TR 01 : Along-hole Component
29561.5
3677.0
Ch 1-9
10555.7
Ch 10-18
3467.2
Ch 19-27
851.6
Ch 28-36
39.0E
53.0E
67.0E
81.0E
95.0E
109.0E
123.0E
137.0E
151.0E
165.0E
179.0E
193.0E


Karinya DHEM TR 01 : Along-hole Component
1176.6
Ch 29-30
657.5
Ch 31 - 32
303.9
Ch 33 - 34
94.1
Ch 35-36
39.0N
53.0N
67.0N
81.0N
95.0N
109.0N
123.0N
137.0N
151.0N
165.0N
179.0N
193.0N

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Finalized Date: 11-JUL-2007
Account: LODEXP

CERTIFICATE AD07063932

Project: Frankton

P.O. No.: 252001

This report is for 34 Percussion samples submitted to our lab in Adelaide, SA, Australia on 27-JUN-2007.

The following have access to data associated with this certificate:

KEN HARVEY	SEAN KENNEDY	J MCCAWLEY (HOME)

SAMPLE PREPARATION

ALS CODE	DESCRIPTION
WEI-21	Received Sample Weight
LOG-22	Sample login - Rcd w/o BarCode
LEV-01	Waste Disposal Levy
PUL-QC	Pulverizing QC Test
PUL-21	Pulverize entire sample
CRU-21	Crush entire sample >70% -6 mm

ANALYTICAL PROCEDURES

ALS CODE	DESCRIPTION	INSTRUMENT
Au-AA25	Ore Grade Au 30g FA AA finish	AAS
ME-ICP41	35 Element Aqua Regia ICP-AES	ICP-AES

To: **LODESTONE EXPLORATION**
ATTN: J MCCAWLEY (HOME)
PO BOX 762
BRISBANE QLD 4001

This is the Final Report and supersedes any preliminary report with this certificate number. Results apply to samples as submitted. All pages of this report have been checked and approved for release.

Signature:

Wayne Abbott, Operations Manager, Western Australia

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Project: Frankton

CERTIFICATE OF ANALYSIS AD07063932

Sample Description	Method / Analyte / Units / LOR	WEI-21 Recvd Wt. kg 0.02	PUL-QC Pass75um % 0.01	Au-AA25 Au ppm 0.01	ME-ICP41 Ag ppm 0.2	ME-ICP41 Al % 0.01	ME-ICP41 As ppm 2	ME-ICP41 B ppm 10	ME-ICP41 Ba ppm 10	ME-ICP41 Be ppm 0.5	ME-ICP41 Bi ppm 2	ME-ICP41 Ca % 0.01	ME-ICP41 Cd ppm 0.5	ME-ICP41 Co ppm 1	ME-ICP41 Cr ppm 1	ME-ICP41 Cu ppm 1
FSI 0 - 2		1.15		<0.01	<0.2	2.03	11	40	130	1.0	<2	9.18	<0.5	14	23	31
FSI 2 - 4		1.50		<0.01	0.2	2.65	9	50	130	0.7	<2	0.08	<0.5	7	38	29
FSI 4 - 6		0.98		<0.01	0.2	2.56	57	30	170	1.4	<2	2.74	1.2	23	34	89
FSI 6 - 8		1.44		<0.01	0.3	1.39	72	10	210	0.6	<2	2.14	<0.5	94	19	144
FSI 8 - 10		1.22	99.0	<0.01	<0.2	1.70	33	<10	90	0.6	<2	1.31	1.0	56	25	72
FSI 10 - 12		1.30		<0.01	<0.2	1.59	42	<10	110	0.6	<2	0.08	<0.5	102	26	92
FSI 12 - 14		0.66		<0.01	0.5	3.51	112	10	550	1.5	<2	0.39	1.1	266	40	206
FSI 14 - 16		1.18		0.01	0.2	2.04	54	10	90	0.7	<2	0.05	<0.5	98	27	229
FSI 16 - 18		1.09		<0.01	0.3	2.24	30	10	130	0.8	<2	0.06	<0.5	25	31	93
FSI 18 - 20		1.16		<0.01	0.4	2.01	20	10	120	0.8	<2	0.06	<0.5	24	30	63
FSI 20 - 22		0.85		<0.01	0.5	1.95	31	<10	70	0.6	<2	0.11	<0.5	52	28	174
FSI 22 - 24		1.05		<0.01	0.7	1.56	20	<10	70	0.6	<2	0.04	<0.5	8	26	46
FSI 24 - 26		0.91		<0.01	0.8	1.63	32	<10	60	0.7	<2	0.08	<0.5	16	26	101
FSI 26 - 28		1.01		<0.01	0.6	1.67	26	<10	70	0.7	2	0.12	<0.5	15	25	111
FSI 28 - 30		1.40		<0.01	0.6	1.50	30	<10	60	0.6	<2	0.15	<0.5	22	23	127
FSI 30 - 32		1.00		<0.01	0.6	2.13	26	10	100	1.0	<2	0.14	<0.5	26	30	138
FSI 32 - 34		1.43		<0.01	0.4	1.46	21	<10	40	0.7	<2	0.16	<0.5	24	24	110
FSI 34 - 36		1.05		<0.01	0.5	2.10	15	<10	110	0.9	<2	0.16	<0.5	21	30	95
FSI 36 - 38		1.37		0.03	0.4	1.67	22	<10	70	0.6	<2	0.16	1.2	21	26	98
FSI 38 - 40		0.97		<0.01	0.4	1.62	7	<10	70	0.6	<2	0.16	0.7	21	26	102
FSI 40 - 42		1.08		<0.01	0.5	1.88	10	<10	80	0.8	<2	0.19	<0.5	33	31	113
FSI 42 - 44		1.26		<0.01	0.4	1.95	12	<10	90	0.8	<2	0.21	<0.5	34	30	98
FSI 44 - 46		1.14		<0.01	0.6	1.67	6	<10	70	0.6	2	0.20	<0.5	20	26	98
FSI 46 - 48		1.07		<0.01	0.4	1.92	6	<10	90	0.8	<2	0.23	<0.5	22	29	99
FSI 48 - 50		0.95		<0.01	0.5	2.14	9	<10	110	0.9	<2	0.32	<0.5	24	31	104
FSI 50 - 52		0.93		<0.01	0.6	1.59	9	<10	60	0.6	<2	0.83	<0.5	23	24	95
FSI 52 - 54		1.38		<0.01	0.4	2.11	8	<10	110	0.8	<2	1.14	<0.5	22	30	103
FSI 54 - 56		1.55		<0.01	0.6	1.64	5	<10	70	0.6	<2	0.20	<0.5	20	26	98
FSI 56 - 58		1.85		<0.01	0.6	1.36	28	<10	50	0.6	<2	1.12	4.7	33	22	90
FSI 58 - 60		1.58		<0.01	0.7	1.20	17	<10	50	0.5	<2	1.14	2.6	28	19	70
Eud 16		0.87	98.0	0.01	0.4	2.27	11	10	160	1.8	2	0.44	<0.5	16	35	130
Eud 17		1.47		<0.01	0.7	1.04	171	30	580	2.3	<2	0.20	0.7	141	15	109
Eud 18		2.83		0.09	2.1	0.90	147	20	380	3.8	3	1.04	0.6	89	14	118
Eud 19		3.06		<0.01	1.9	0.69	76	20	720	6.8	4	2.39	1.1	175	2	1795

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Project: Frankton

CERTIFICATE OF ANALYSIS AD07063932

Sample Description	Method	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41
	Analyte	Fe	Ga	Hg	K	La	Mg	Mn	Mo	Na	Ni	P	Pb	S	Sb	Sc
	Units	%	ppm	ppm	%	ppm	%	ppm	ppm	%	ppm	ppm	ppm	%	ppm	ppm
	LOR	0.01	10	1	0.01	10	0.01	5	1	0.01	1	10	2	0.01	2	1
FSI 0 - 2		2.35	<10	<1	0.51	20	3.25	284	1	0.22	26	130	8	0.03	<2	4
FSI 2 - 4		3.57	10	<1	0.63	20	0.54	99	2	0.24	21	120	11	0.02	<2	5
FSI 4 - 6		4.24	10	<1	0.64	40	1.75	217	5	0.22	45	390	34	0.04	3	4
FSI 6 - 8		2.54	<10	<1	0.41	50	0.38	1945	7	0.17	114	410	31	0.03	3	2
FSI 8 - 10		2.22	<10	<1	0.50	60	0.76	952	4	0.13	81	520	15	0.04	<2	2
FSI 10 - 12		2.85	<10	<1	0.41	60	0.71	1390	7	0.10	120	430	18	0.05	3	2
FSI 12 - 14		6.48	10	<1	0.81	50	0.58	4750	18	0.15	220	1010	48	0.05	4	5
FSI 14 - 16		4.50	<10	<1	0.42	50	0.69	714	7	0.09	181	800	26	0.07	2	2
FSI 16 - 18		2.64	10	<1	0.65	50	0.35	358	8	0.09	38	750	36	0.16	2	3
FSI 18 - 20		2.23	10	1	0.63	40	0.49	314	6	0.08	41	680	27	0.09	<2	3
FSI 20 - 22		4.00	<10	<1	0.43	50	1.04	257	7	0.06	157	920	21	0.14	2	2
FSI 22 - 24		2.32	10	<1	0.48	40	0.70	101	12	0.08	29	430	44	0.51	2	2
FSI 24 - 26		4.20	<10	<1	0.41	40	0.81	114	14	0.07	55	830	41	0.48	2	2
FSI 26 - 28		4.11	<10	<1	0.46	40	0.93	115	10	0.05	56	720	43	1.12	3	2
FSI 28 - 30		4.32	<10	<1	0.42	40	0.88	110	9	0.04	74	820	48	1.77	2	2
FSI 30 - 32		5.19	10	<1	0.66	40	0.98	110	12	0.05	83	720	63	1.90	4	3
FSI 32 - 34		5.26	<10	<1	0.34	40	1.02	114	11	0.09	65	790	50	1.39	2	2
FSI 34 - 36		4.16	10	<1	0.65	40	1.06	112	14	0.10	64	740	42	1.42	2	3
FSI 36 - 38		3.84	<10	<1	0.48	40	0.98	178	15	0.11	64	710	41	1.54	3	2
FSI 38 - 40		3.96	<10	1	0.46	40	0.99	219	11	0.08	64	730	34	1.42	2	2
FSI 40 - 42		4.26	<10	<1	0.52	40	1.11	348	11	0.11	63	840	47	1.38	2	3
FSI 42 - 44		4.57	10	<1	0.57	40	1.06	538	13	0.09	70	720	45	1.44	2	3
FSI 44 - 46		3.71	10	<1	0.48	40	1.02	320	13	0.08	57	760	61	1.21	<2	2
FSI 46 - 48		3.95	10	<1	0.59	40	1.03	364	13	0.10	65	730	34	1.45	3	3
FSI 48 - 50		4.24	10	<1	0.70	40	1.07	442	16	0.14	72	710	42	1.60	2	3
FSI 50 - 52		3.93	<10	<1	0.42	30	1.07	439	17	0.10	70	740	48	1.57	<2	2
FSI 52 - 54		3.92	10	<1	0.67	40	1.10	505	15	0.14	67	720	49	1.56	2	3
FSI 54 - 56		3.67	<10	<1	0.47	40	1.01	323	13	0.08	57	750	58	1.19	2	2
FSI 56 - 58		4.55	<10	<1	0.36	40	0.99	502	25	0.10	94	690	47	2.06	3	2
FSI 58 - 60		4.13	<10	1	0.33	30	0.95	641	20	0.11	67	650	79	1.74	3	2
Eud 16		9.54	10	<1	0.75	40	0.63	132	7	0.07	50	920	137	0.12	3	4
Eud 17		12.90	<10	<1	0.26	30	0.16	4210	6	0.21	170	510	617	0.08	5	3
Eud 18		20.9	<10	<1	0.22	30	0.27	3880	14	0.08	213	780	325	0.03	5	3
Eud 19		10.25	<10	<1	0.27	30	0.59	25400	14	0.28	41	260	214	0.08	2	3

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Project: Frankton

CERTIFICATE OF ANALYSIS AD07063932

Sample Description	Method / Analyte / Units / LOR	ME-ICP41 Sr ppm 1	ME-ICP41 Th ppm 20	ME-ICP41 Ti % 0.01	ME-ICP41 Tl ppm 10	ME-ICP41 U ppm 10	ME-ICP41 V ppm 1	ME-ICP41 W ppm 10	ME-ICP41 Zn ppm 2
FSI 0 - 2		429	<20	0.04	<10	10	50	<10	65
FSI 2 - 4		31	<20	0.05	<10	10	55	<10	53
FSI 4 - 6		254	20	0.03	<10	10	76	<10	118
FSI 6 - 8		352	20	0.02	<10	10	49	<10	149
FSI 8 - 10		55	20	0.02	<10	10	49	<10	203
FSI 10 - 12		84	20	0.02	<10	10	41	<10	266
FSI 12 - 14		313	20	0.02	<10	10	101	<10	333
FSI 14 - 16		106	20	0.02	<10	10	44	<10	182
FSI 16 - 18		420	20	0.02	<10	10	59	<10	54
FSI 18 - 20		390	20	0.02	<10	10	64	<10	59
FSI 20 - 22		94	20	0.02	<10	10	59	<10	175
FSI 22 - 24		261	20	0.02	<10	10	55	<10	38
FSI 24 - 26		110	<20	0.02	<10	10	58	<10	103
FSI 26 - 28		85	20	0.02	<10	10	66	<10	69
FSI 28 - 30		70	20	0.02	<10	10	57	<10	91
FSI 30 - 32		39	20	0.02	<10	10	84	<10	79
FSI 32 - 34		21	20	0.02	<10	10	49	<10	101
FSI 34 - 36		19	20	0.02	<10	10	84	<10	82
FSI 36 - 38		16	20	0.02	<10	10	63	<10	151
FSI 38 - 40		15	20	0.02	<10	10	56	<10	146
FSI 40 - 42		20	<20	0.02	<10	10	67	<10	141
FSI 42 - 44		18	<20	0.02	<10	10	67	<10	140
FSI 44 - 46		15	20	0.02	<10	10	55	<10	118
FSI 46 - 48		17	20	0.02	<10	10	64	<10	103
FSI 48 - 50		20	20	0.02	<10	10	69	<10	130
FSI 50 - 52		40	<20	0.02	<10	10	56	<10	173
FSI 52 - 54		59	20	0.02	<10	10	71	<10	145
FSI 54 - 56		15	20	0.02	<10	10	54	<10	116
FSI 56 - 58		55	<20	0.01	<10	10	66	<10	442
FSI 58 - 60		53	<20	0.01	<10	10	53	<10	421
Eud 16		520	20	0.02	<10	10	63	<10	197
Eud 17		60	<20	<0.01	<10	10	52	<10	918
Eud 18		92	<20	<0.01	<10	10	41	<10	1470
Eud 19		434	<20	<0.01	<10	<10	14	<10	661

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Finalized Date: 3-AUG-2007
Account: LODEXP

CERTIFICATE AD07074822

Project: FRANKTON

P.O. No.: 252002

This report is for 71 Drill Core samples submitted to our lab in Adelaide, SA, Australia on 16-JUL-2007.

The following have access to data associated with this certificate:

KEN HARVEY	SEAN KENNEDY	J MCCAWLEY (HOME)

SAMPLE PREPARATION

ALS CODE	DESCRIPTION
WEI-21	Received Sample Weight
LOG-22	Sample login - Rcd w/o BarCode
LEV-01	Waste Disposal Levy
PUL-QC	Pulverizing QC Test
PUL-21	Pulverize entire sample
CRU-21	Crush entire sample >70% -6 mm

ANALYTICAL PROCEDURES

ALS CODE	DESCRIPTION	INSTRUMENT
Au-AA25	Ore Grade Au 30g FA AA finish	AAS
ME-ICP41	35 Element Aqua Regia ICP-AES	ICP-AES

To: **LODESTONE EXPLORATION**
ATTN: J MCCAWLEY (HOME)
PO BOX 762
BRISBANE QLD 4001

This is the Final Report and supersedes any preliminary report with this certificate number. Results apply to samples as submitted. All pages of this report have been checked and approved for release.

Signature:

Wayne Abbott, Operations Manager, Western Australia

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Project: FRANKTON

CERTIFICATE OF ANALYSIS AD07074822

Method / Analyte / Units / LOR — Sample Description	WEI-21 Recvd Wt. kg 0.02	PUL-QC Pass75um % 0.01	Au-AA25 Au ppm 0.01	ME-ICP41 Ag ppm 0.2	ME-ICP41 Al % 0.01	ME-ICP41 As ppm 2	ME-ICP41 B ppm 10	ME-ICP41 Ba ppm 10	ME-ICP41 Be ppm 0.5	ME-ICP41 Bi ppm 2	ME-ICP41 Ca % 0.01	ME-ICP41 Cd ppm 0.5	ME-ICP41 Co ppm 1	ME-ICP41 Cr ppm 1	ME-ICP41 Cu ppm 1
FSIA 60 - 62	2.05		<0.01	0.7	1.65	26	<10	70	0.7	<2	1.60	2.4	31	26	89
FSIA 62 - 64	2.18		<0.01	1.3	1.39	36	<10	50	0.6	2	1.52	4.6	36	23	146
FSIA 64 - 66	2.17		<0.01	0.5	1.24	27	<10	40	0.5	<2	1.82	0.7	28	20	66
FSIA 66 - 68	2.10		<0.01	0.6	1.16	16	<10	30	<0.5	<2	2.31	1.1	29	19	68
FSIA 68 - 70	2.13	92.0	<0.01	0.7	1.26	37	<10	40	0.5	3	2.60	2.2	29	19	78
FSIA 70 - 72	2.02		<0.01	0.4	1.30	25	<10	40	0.5	<2	2.03	2.0	28	20	80
FSIA 72 - 74	2.26		<0.01	0.3	1.25	34	<10	40	0.5	<2	1.51	1.2	26	20	72
FSIA 74 - 76	2.12		<0.01	0.6	1.30	59	<10	50	0.5	3	1.46	1.1	31	20	99
FSIA 76 - 78	1.85		<0.01	0.3	1.27	18	<10	40	0.5	<2	1.53	0.5	21	20	63
FSIA 78 - 80	2.00		<0.01	0.4	1.16	39	<10	40	0.5	2	1.58	4.9	26	18	67
FSIA 80 - 82	2.11		<0.01	0.4	1.36	39	<10	40	0.5	2	2.56	2.8	24	20	60
FSIA 82 - 84	2.40		<0.01	0.5	1.21	139	<10	40	0.5	<2	1.68	2.0	39	18	76
FSIA 84 - 86	2.20		<0.01	0.6	1.28	38	<10	40	0.5	<2	1.65	3.1	31	20	74
FSIA 86 - 88	2.34		<0.01	0.4	1.54	23	<10	50	0.6	<2	2.14	1.1	28	22	59
FSIA 88 - 90	2.17		<0.01	0.6	1.41	19	<10	50	0.5	2	2.25	0.5	30	22	93
FSIA 90 - 92	2.32		<0.01	0.4	1.39	13	<10	70	0.7	2	6.61	<0.5	23	27	72
FSIA 92 - 94	2.22		<0.01	0.5	1.64	5	<10	70	0.7	<2	2.30	0.9	26	25	63
FSIA 94 - 96	2.26		<0.01	0.6	1.54	16	<10	60	0.6	<2	2.61	2.4	33	23	80
FSIA 96 - 98	2.24		<0.01	0.5	1.12	12	<10	30	<0.5	2	2.98	1.7	33	17	81
FSIA 98 - 100	2.20		<0.01	0.5	1.45	7	<10	50	0.6	<2	2.83	4.5	22	22	56
FSIA 100 - 102	2.37		<0.01	0.6	1.77	30	<10	90	0.8	3	2.81	1.7	35	37	88
FSIA 102 - 104	1.62		<0.01	0.7	1.49	20	<10	60	0.6	2	2.64	3.9	31	22	74
FSIA 104 - 106	2.30		<0.01	0.8	1.49	17	<10	60	0.6	2	2.96	2.0	32	24	81
FSIA 106 - 108	2.28		<0.01	0.9	1.32	13	<10	50	0.6	2	3.12	2.1	31	21	80
FSIA 108 - 110	2.34		<0.01	0.7	1.26	12	<10	40	0.5	2	3.80	4.4	27	20	64
FSIA 110 - 112	2.27		<0.01	0.9	1.22	6	<10	40	0.5	<2	3.12	2.5	25	20	60
FSIA 112 - 114	1.86		<0.01	1.2	1.25	16	<10	50	0.5	<2	2.92	5.1	32	20	97
FSIA 114 - 116	2.18		<0.01	1.0	1.24	25	<10	40	0.5	3	2.46	4.9	38	20	85
FSIA 116 - 118	2.20		<0.01	1.2	1.11	83	<10	30	<0.5	<2	2.81	4.6	55	19	88
FSIA 118 - 120	2.51		<0.01	1.3	1.14	63	<10	40	0.5	2	3.01	3.4	52	20	90
FSIA 120 - 122	2.15		<0.01	1.5	1.43	82	<10	40	0.6	3	2.63	3.2	62	22	90
FSIA 122 - 124	2.14		<0.01	0.7	1.23	51	<10	40	0.5	<2	2.81	4.9	44	20	79
FSIA 124 - 126	1.86		<0.01	0.7	1.13	23	<10	40	0.5	2	3.24	2.3	26	18	52
FSIA 126 - 128	1.67		<0.01	0.8	1.32	24	<10	50	0.6	2	2.97	0.9	34	20	78
FSIA 128 - 130	2.12		<0.01	0.4	1.18	3	<10	40	0.5	<2	2.64	0.6	25	19	62
FSIA 130 - 132	1.83		<0.01	0.3	1.22	7	<10	40	0.5	<2	2.44	1.6	22	19	49
FSIA 132 - 134	1.83		<0.01	0.5	1.43	15	<10	70	0.7	<2	2.39	3.2	30	20	47
FSIA 134 - 136	1.82		<0.01	0.2	1.32	15	<10	50	0.6	<2	2.61	1.4	22	20	48
FSIA 136 - 138	1.75		<0.01	0.3	1.48	5	<10	60	0.6	<2	2.53	0.6	25	22	62
FSIA 138 - 140	2.19		<0.01	0.3	1.40	17	<10	50	0.6	<2	2.18	1.0	27	21	66

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CERTIFICATE OF ANALYSIS AD07074822

Method	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41
Analyte	Fe	Ga	Hg	K	La	Mg	Mn	Mo	Na	Ni	P	Pb	S	Sb	Sc
Units	%	ppm	ppm	%	ppm	%	ppm	ppm	%	ppm	ppm	ppm	%	ppm	ppm
Sample Description LOR	0.01	10	1	0.01	10	0.01	5	1	0.01	1	10	2	0.01	2	1
FSIA 60 - 62	4.06	10	<1	0.58	40	1.01	497	24	0.04	99	720	84	2.05	4	2
FSIA 62 - 64	5.20	<10	<1	0.42	30	0.99	543	23	0.04	101	690	137	2.57	<2	2
FSIA 64 - 66	3.80	<10	<1	0.34	40	0.96	524	21	0.03	72	690	53	1.71	<2	2
FSIA 66 - 68	3.65	<10	<1	0.32	30	0.91	598	21	0.03	75	650	65	1.78	<2	1
FSIA 68 - 70	4.08	<10	<1	0.38	30	0.92	680	17	0.04	81	650	68	1.99	2	2
FSIA 70 - 72	3.93	<10	<1	0.36	30	0.98	568	16	0.03	84	690	34	1.94	<2	2
FSIA 72 - 74	3.97	10	<1	0.36	40	0.94	496	13	0.03	73	700	31	1.82	<2	2
FSIA 74 - 76	4.22	<10	<1	0.40	40	0.94	476	10	0.03	76	740	41	2.22	<2	2
FSIA 76 - 78	3.72	<10	<1	0.39	40	0.93	499	5	0.03	60	700	28	1.66	<2	2
FSIA 78 - 80	3.68	<10	<1	0.35	30	0.88	474	19	0.02	86	680	31	1.89	<2	1
FSIA 80 - 82	3.62	<10	<1	0.36	20	0.97	568	14	0.02	62	630	40	1.66	3	2
FSIA 82 - 84	3.83	<10	<1	0.36	30	0.93	532	12	0.03	74	650	53	1.94	<2	1
FSIA 84 - 86	4.09	<10	<1	0.36	40	1.00	543	15	0.03	79	690	27	2.02	<2	1
FSIA 86 - 88	3.85	<10	<1	0.43	40	1.12	603	15	0.04	61	690	36	1.85	2	2
FSIA 88 - 90	4.22	<10	<1	0.40	40	1.06	649	16	0.04	61	690	58	2.03	3	2
FSIA 90 - 92	3.71	<10	<1	0.42	30	1.18	1510	17	0.03	54	1110	56	1.78	<2	2
FSIA 92 - 94	3.81	10	<1	0.57	40	1.04	626	17	0.04	58	720	45	1.77	<2	2
FSIA 94 - 96	4.40	10	<1	0.48	30	1.06	699	24	0.04	77	720	47	2.16	<2	2
FSIA 96 - 98	4.18	<10	<1	0.29	30	0.93	790	24	0.02	81	670	43	2.25	<2	1
FSIA 98 - 100	3.36	<10	<1	0.45	30	0.99	747	21	0.03	59	710	49	1.51	<2	2
FSIA 100 - 102	4.58	10	<1	0.60	40	1.22	738	20	0.04	93	910	70	2.28	3	3
FSIA 102 - 104	4.00	10	<1	0.54	30	0.93	739	19	0.04	79	620	74	2.06	<2	2
FSIA 104 - 106	4.31	<10	<1	0.46	40	1.08	823	22	0.04	94	680	82	2.13	3	2
FSIA 106 - 108	4.18	<10	<1	0.40	30	1.00	860	19	0.03	97	690	116	2.13	2	2
FSIA 108 - 110	3.75	<10	<1	0.38	30	1.01	1040	21	0.03	85	720	70	1.86	<2	2
FSIA 110 - 112	3.61	10	<1	0.38	40	0.99	889	20	0.03	85	720	87	1.72	3	1
FSIA 112 - 114	4.18	<10	<1	0.42	40	0.96	852	23	0.03	105	700	136	2.14	2	2
FSIA 114 - 116	4.35	<10	<1	0.39	40	0.97	725	24	0.03	111	720	123	2.28	3	2
FSIA 116 - 118	4.86	<10	<1	0.33	40	0.94	827	24	0.03	125	730	109	2.69	2	1
FSIA 118 - 120	4.40	10	<1	0.35	40	0.94	887	24	0.03	99	740	125	2.33	2	1
FSIA 120 - 122	4.88	<10	<1	0.39	40	1.15	819	30	0.03	99	710	164	2.51	2	2
FSIA 122 - 124	4.35	<10	<1	0.35	40	1.02	866	27	0.03	86	700	72	2.23	<2	1
FSIA 124 - 126	3.25	<10	<1	0.36	30	0.99	1020	18	0.03	58	660	40	1.44	<2	1
FSIA 126 - 128	4.31	<10	<1	0.42	40	1.05	951	22	0.04	68	670	79	2.20	<2	2
FSIA 128 - 130	3.61	<10	<1	0.35	40	1.01	837	16	0.03	47	670	39	1.70	2	2
FSIA 130 - 132	3.05	<10	<1	0.34	40	0.88	768	23	0.01	48	560	29	1.41	<2	2
FSIA 132 - 134	4.03	<10	<1	0.47	40	0.88	806	17	0.02	79	590	53	2.05	3	2
FSIA 134 - 136	3.26	<10	<1	0.38	40	0.91	860	12	0.02	53	630	22	1.34	3	2
FSIA 136 - 138	3.71	<10	<1	0.41	40	1.04	860	12	0.02	56	670	26	1.75	<2	2
FSIA 138 - 140	3.90	<10	<1	0.37	40	0.99	745	15	0.02	61	620	30	1.98	3	2

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CERTIFICATE OF ANALYSIS AD07074822

Sample Description	Method	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41
	Analyte	Sr	Th	Ti	Tl	U	V	W	Zn
	Units	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm
	LOR	1	20	0.01	10	10	1	10	2
FSIA 60 - 62		82	<20	0.02	<10	10	98	<10	276
FSIA 62 - 64		73	<20	0.02	<10	10	73	<10	573
FSIA 64 - 66		88	<20	0.01	<10	10	47	<10	121
FSIA 66 - 68		111	<20	0.01	<10	10	47	<10	184
FSIA 68 - 70		128	<20	0.01	<10	10	66	<10	285
FSIA 70 - 72		97	<20	0.01	<10	10	59	<10	255
FSIA 72 - 74		73	<20	0.01	<10	10	56	<10	197
FSIA 74 - 76		71	<20	0.01	<10	10	54	<10	192
FSIA 76 - 78		76	<20	0.01	<10	10	52	<10	124
FSIA 78 - 80		78	<20	0.01	<10	10	65	<10	533
FSIA 80 - 82		102	<20	0.01	<10	10	59	<10	339
FSIA 82 - 84		82	<20	0.01	<10	10	50	<10	271
FSIA 84 - 86		81	<20	0.01	<10	10	53	<10	361
FSIA 86 - 88		109	<20	0.01	<10	10	38	<10	165
FSIA 88 - 90		123	<20	0.01	<10	10	25	<10	121
FSIA 90 - 92		371	<20	0.03	<10	10	41	<10	95
FSIA 92 - 94		126	<20	0.02	<10	10	41	<10	147
FSIA 94 - 96		142	<20	0.02	<10	10	57	<10	288
FSIA 96 - 98		154	<20	0.01	<10	10	46	<10	211
FSIA 98 - 100		137	<20	0.02	<10	10	66	<10	470
FSIA 100 - 102		161	<20	0.03	<10	10	75	<10	226
FSIA 102 - 104		143	<20	0.02	<10	10	69	<10	393
FSIA 104 - 106		160	<20	0.02	<10	10	71	<10	229
FSIA 106 - 108		164	<20	0.01	<10	10	68	<10	215
FSIA 108 - 110		201	<20	0.01	<10	10	72	<10	425
FSIA 110 - 112		164	<20	0.01	<10	10	71	<10	251
FSIA 112 - 114		155	<20	0.02	<10	10	72	<10	467
FSIA 114 - 116		130	<20	0.01	<10	10	68	<10	465
FSIA 116 - 118		149	<20	0.01	<10	10	56	<10	435
FSIA 118 - 120		162	<20	0.01	<10	10	53	<10	341
FSIA 120 - 122		141	<20	0.01	<10	10	46	<10	320
FSIA 122 - 124		147	<20	0.01	<10	10	56	<10	466
FSIA 124 - 126		171	<20	0.01	<10	10	51	<10	243
FSIA 126 - 128		155	<20	0.01	<10	10	33	<10	134
FSIA 128 - 130		138	<20	0.01	<10	10	25	<10	106
FSIA 130 - 132		125	<20	0.01	<10	<10	39	<10	202
FSIA 132 - 134		129	20	0.02	<10	<10	74	<10	341
FSIA 134 - 136		133	<20	0.02	<10	<10	56	<10	173
FSIA 136 - 138		129	20	0.02	<10	<10	42	<10	116
FSIA 138 - 140		111	20	0.02	<10	<10	39	<10	137

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CERTIFICATE OF ANALYSIS AD07074822

Sample Description	Method / Analyte / Units / LOR	WEI-21 Recvd Wt. kg 0.02	PUL-QC Pass75um % 0.01	Au-AA25 Au ppm 0.01	ME-ICP41 Ag ppm 0.2	ME-ICP41 Al % 0.01	ME-ICP41 As ppm 2	ME-ICP41 B ppm 10	ME-ICP41 Ba ppm 10	ME-ICP41 Be ppm 0.5	ME-ICP41 Bi ppm 2	ME-ICP41 Ca % 0.01	ME-ICP41 Cd ppm 0.5	ME-ICP41 Co ppm 1	ME-ICP41 Cr ppm 1	ME-ICP41 Cu ppm 1
FSIA 140 - 142		1.93		<0.01	0.3	1.45	31	<10	60	0.6	<2	2.80	1.6	25	22	65
FSIA 142 - 144		2.24		<0.01	0.3	1.59	45	<10	70	0.7	<2	2.78	4.1	20	23	55
FSIA 144 - 146		2.33		0.02	0.5	1.42	22	<10	60	0.6	<2	3.04	3.5	17	22	49
FSIA 146 - 148		2.07		<0.01	0.2	1.14	58	<10	40	0.5	<2	2.81	1.6	19	18	49
FSIA 148 - 150		2.02	96.0	<0.01	0.2	1.21	24	<10	40	0.5	<2	2.47	1.0	18	19	46
FSIA 150 - 152		2.13		<0.01	0.4	1.38	20	<10	60	0.6	2	2.59	0.7	23	21	57
FSIA 152 - 154		2.01		<0.01	0.3	1.26	14	<10	40	0.5	<2	3.18	0.7	27	20	72
FSIA 154 - 156		1.92		<0.01	0.3	1.47	18	<10	50	0.6	<2	2.57	0.6	33	21	45
FSIA 156 - 158		2.11		<0.01	0.2	1.51	4	<10	50	0.6	<2	2.48	<0.5	25	23	65
FSIA 158 - 160		1.78		<0.01	0.3	1.37	17	<10	50	0.5	<2	2.36	<0.5	30	21	74
FSIA 160 - 162		2.04		<0.01	0.2	1.44	14	<10	60	0.6	<2	2.70	0.8	22	21	59
FSIA 162 - 164		1.90		<0.01	0.2	1.41	57	<10	50	0.6	<2	2.84	1.8	20	20	53
FSIA 164 - 166		2.10		<0.01	0.2	1.67	90	<10	70	0.7	<2	2.24	<0.5	28	24	58
FSIA 166 - 168		2.19		<0.01	0.2	1.76	16	<10	70	0.7	<2	2.36	<0.5	23	25	59
FSIA 168 - 170		2.02		<0.01	0.3	1.48	24	<10	60	0.6	<2	2.06	0.5	22	22	52
FSIA 170 - 172		2.00		<0.01	0.2	1.35	20	<10	50	0.5	<2	2.17	1.5	18	20	47
FSIA 172 - 174		2.10		<0.01	0.3	1.51	28	<10	60	0.6	<2	2.10	<0.5	21	22	52
FSIA 174 - 176		2.04		<0.01	0.3	1.56	54	<10	60	0.6	2	1.90	<0.5	27	23	57
FSIA 176 - 178		1.88		<0.01	<0.2	1.39	7	<10	50	0.6	<2	2.70	<0.5	22	20	59
FSIA 178 - 180		2.13		<0.01	0.3	1.39	9	<10	50	0.6	<2	2.26	<0.5	21	20	50
FSIA 180 - 182		2.15		<0.01	0.3	1.60	13	<10	60	0.6	<2	2.09	<0.5	39	24	77
FSIA 182 - 184		2.19		<0.01	0.3	1.46	8	<10	50	0.5	<2	1.93	0.7	39	22	78
FSIA 184 - 186		1.98		<0.01	0.6	1.58	14	<10	50	0.6	<2	2.70	1.1	32	24	59
FSIA 186 - 188		1.83		<0.01	0.6	1.78	5	<10	100	0.6	<2	2.97	1.0	35	21	100
FSIA 188 - 190		1.73		<0.01	0.7	1.34	8	<10	50	0.5	<2	2.87	5.7	39	21	66
FSIA 190 - 192		1.94		<0.01	0.7	1.39	15	<10	50	0.6	<2	3.96	6.3	35	21	56
FSIA 192 - 194		1.87		<0.01	0.7	1.29	2	<10	50	0.6	<2	4.90	1.4	28	15	50
FSIA 194 - 196		1.93		<0.01	0.7	1.35	27	<10	40	0.5	<2	5.64	2.9	50	21	78
FSIA 196 - 198		1.92		<0.01	0.6	1.48	48	<10	50	0.6	<2	3.10	8.7	57	24	64
FSIA 198 - 200		1.87	92.0	<0.01	0.6	1.47	51	<10	50	0.6	2	4.35	5.0	63	23	79
FSIA 200 - 201		0.84		<0.01	0.8	1.55	43	<10	60	0.6	2	5.22	3.2	50	23	62

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CERTIFICATE OF ANALYSIS AD07074822

Sample Description	Method	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41
	Analyte	Fe	Ga	Hg	K	La	Mg	Mn	Mo	Na	Ni	P	Pb	S	Sb	Sc
	Units	%	ppm	ppm	%	ppm	%	ppm	ppm	%	ppm	ppm	ppm	%	ppm	ppm
	LOR	0.01	10	1	0.01	10	0.01	5	1	0.01	1	10	2	0.01	2	1
FSIA 140 - 142		3.78	<10	<1	0.43	40	0.95	935	15	0.02	73	630	31	1.81	2	2
FSIA 142 - 144		3.27	<10	<1	0.53	40	0.92	935	15	0.02	70	620	22	1.59	2	2
FSIA 144 - 146		3.14	<10	<1	0.42	40	0.94	1025	12	0.02	62	600	43	1.45	2	2
FSIA 146 - 148		3.15	<10	<1	0.28	40	0.90	967	11	0.01	57	600	23	1.40	2	1
FSIA 148 - 150		3.05	<10	<1	0.33	40	0.87	852	12	0.01	54	600	24	1.36	<2	2
FSIA 150 - 152		3.57	<10	<1	0.38	40	0.94	882	7	0.02	57	640	24	1.75	2	2
FSIA 152 - 154		3.97	<10	<1	0.33	40	0.91	1075	15	0.02	65	640	28	1.63	<2	2
FSIA 154 - 156		3.55	<10	<1	0.40	40	0.98	888	9	0.02	46	690	26	1.93	2	2
FSIA 156 - 158		3.98	<10	<1	0.38	40	1.05	880	12	0.02	48	660	21	1.94	3	2
FSIA 158 - 160		4.24	<10	<1	0.34	40	0.96	854	16	0.02	52	640	21	2.08	2	2
FSIA 160 - 162		3.69	<10	<1	0.36	40	1.01	893	16	0.02	48	680	21	1.79	<2	2
FSIA 162 - 164		3.48	<10	<1	0.37	30	0.95	908	12	0.02	56	630	20	1.75	2	2
FSIA 164 - 166		3.93	<10	<1	0.46	30	1.04	787	9	0.03	53	660	16	1.84	2	2
FSIA 166 - 168		3.94	<10	<1	0.51	40	1.05	823	13	0.03	44	650	20	1.92	2	3
FSIA 168 - 170		3.53	<10	<1	0.41	30	0.94	712	18	0.02	45	600	17	1.64	3	2
FSIA 170 - 172		3.32	<10	<1	0.36	30	0.96	738	10	0.02	51	620	22	1.58	2	2
FSIA 172 - 174		3.62	<10	<1	0.42	40	1.02	710	7	0.02	51	690	14	1.73	<2	2
FSIA 174 - 176		3.73	10	<1	0.42	40	1.06	658	7	0.02	47	680	15	1.77	2	2
FSIA 176 - 178		3.70	<10	1	0.38	40	0.96	874	7	0.02	44	640	21	1.91	2	2
FSIA 178 - 180		3.44	<10	<1	0.40	40	0.94	722	6	0.02	46	660	25	1.66	<2	2
FSIA 180 - 182		4.73	<10	<1	0.45	40	1.09	700	14	0.02	61	710	26	2.48	<2	2
FSIA 182 - 184		4.68	<10	<1	0.39	40	1.05	637	15	0.02	62	700	30	2.47	<2	2
FSIA 184 - 186		3.71	<10	<1	0.41	40	1.10	800	13	0.02	71	750	56	1.73	3	2
FSIA 186 - 188		4.46	10	<1	0.45	40	1.09	774	19	0.03	55	910	64	2.00	<2	3
FSIA 188 - 190		4.37	<10	<1	0.38	40	0.95	853	23	0.02	85	620	81	2.37	2	2
FSIA 190 - 192		4.13	<10	<1	0.39	40	1.00	1105	16	0.02	78	620	78	2.25	2	2
FSIA 192 - 194		3.34	<10	<1	0.45	40	0.88	1255	11	0.02	50	550	109	1.66	2	2
FSIA 194 - 196		4.59	<10	<1	0.36	40	1.12	1510	21	0.02	76	660	86	2.33	4	2
FSIA 196 - 198		4.17	<10	<1	0.42	40	1.05	821	31	0.02	92	680	89	2.08	2	2
FSIA 198 - 200		4.81	<10	<1	0.43	40	1.06	1100	20	0.02	86	770	87	2.64	2	2
FSIA 200 - 201		3.98	<10	<1	0.56	30	1.06	1290	15	0.04	73	760	99	1.99	2	2

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Project: FRANKTON

CERTIFICATE OF ANALYSIS AD07074822

Sample Description	Method / Analyte / Units / LOR	ME-ICP41 Sr ppm 1	ME-ICP41 Th ppm 20	ME-ICP41 Ti % 0.01	ME-ICP41 Tl ppm 10	ME-ICP41 U ppm 10	ME-ICP41 V ppm 1	ME-ICP41 W ppm 10	ME-ICP41 Zn ppm 2
FSIA 140 - 142		143	20	0.02	<10	<10	66	<10	191
FSIA 142 - 144		144	<20	0.02	<10	<10	93	<10	393
FSIA 144 - 146		156	<20	0.02	<10	<10	72	<10	353
FSIA 146 - 148		138	<20	0.01	<10	<10	47	<10	173
FSIA 148 - 150		123	<20	0.01	<10	<10	44	<10	147
FSIA 150 - 152		130	20	0.01	<10	<10	41	<10	118
FSIA 152 - 154		161	<20	0.01	<10	<10	37	<10	124
FSIA 154 - 156		135	20	0.02	<10	<10	38	<10	108
FSIA 156 - 158		123	20	0.02	<10	<10	29	<10	78
FSIA 158 - 160		118	20	0.01	<10	<10	25	<10	83
FSIA 160 - 162		129	20	0.02	<10	<10	30	<10	129
FSIA 162 - 164		134	20	0.02	<10	<10	42	<10	186
FSIA 164 - 166		117	<20	0.02	<10	<10	38	<10	98
FSIA 166 - 168		121	20	0.02	<10	<10	32	<10	105
FSIA 168 - 170		107	<20	0.02	<10	<10	30	<10	90
FSIA 170 - 172		110	<20	0.02	<10	<10	46	<10	165
FSIA 172 - 174		106	20	0.02	<10	<10	42	<10	87
FSIA 174 - 176		97	20	0.02	<10	<10	27	<10	75
FSIA 176 - 178		146	<20	0.02	<10	<10	22	<10	71
FSIA 178 - 180		116	20	0.02	<10	<10	25	<10	90
FSIA 180 - 182		111	20	0.02	<10	<10	30	<10	103
FSIA 182 - 184		108	20	0.02	<10	<10	26	<10	120
FSIA 184 - 186		189	20	0.02	<10	<10	44	<10	130
FSIA 186 - 188		233	<20	0.02	<10	<10	51	<10	128
FSIA 188 - 190		169	<20	0.02	<10	<10	47	<10	362
FSIA 190 - 192		204	20	0.02	<10	<10	49	<10	401
FSIA 192 - 194		258	20	0.02	<10	<10	29	<10	120
FSIA 194 - 196		297	20	0.02	<10	<10	34	<10	198
FSIA 196 - 198		166	20	0.02	<10	<10	60	<10	437
FSIA 198 - 200		234	20	0.02	<10	<10	47	<10	275
FSIA 200 - 201		287	<20	0.02	<10	10	52	<10	190

Job: 7AD1577
O/N: Karinya Project

Final ANALYTICAL REPORT

SAMPLE	Ag	As	Bi	Ca	Cd	Ce	Co
ROCK SAMPLE	4	140	6	6.51%	3	170	200

UNITS	ppm	ppm	ppm	ppm	ppm	ppm	ppm
DET.LIM	1	3	5	10	2	10	2
SCHEME	IC3E	IC3E	IC3E	IC3E	IC3E	IC3E	IC3E

Job: 7AD1577
O/N: Karinya Project

Final ANALYTICAL REPORT

SAMPLE	Cr	Cu	Fe	K	Mg	Mn	Mo
ROCK SAMPLE	62	370	4.01%	1.72%	8750	3.99%	10

UNITS	ppm	ppm	ppm	ppm	ppm	ppm	ppm
DET.LIM	2	2	100	10	10	5	3
SCHEME	IC3E	IC3E	IC3E	IC3E	IC3E	IC3E	IC3E

Job: 7AD1577
O/N: Karinya Project

Final ANALYTICAL REPORT

SAMPLE	Na	Nb	Ni	P	Pb	Sr	Ti
ROCK SAMPLE	2600	<5	86	350	96	850	1400
UNITS	ppm	ppm	ppm	ppm	ppm	ppm	ppm
DET.LIM	10	5	2	5	5	2	10
SCHEME	IC3E	IC3E	IC3E	IC3E	IC3E	IC3E	IC3E

Job: 7AD1577
O/N: Karinya Project

Final ANALYTICAL REPORT

SAMPLE	Au	Au Rpt	V	Y	Zn	TOEC
ROCK SAMPLE	0.02	0.04	36	64	800	<0.02
UNITS	ppm	ppm	ppm	ppm	ppm	%
DET.LIM	0.01	0.01	2	2	2	0.02
SCHEME	FA1	FA1	IC3E	IC3E	IC3E	GRAV4B

Sedex Minerals Pty Limited

ACN 113 595 798

12 August 2009

Ms Nella Petruzella,
Resource Development Program
Minerals and Energy Resources
GPO Box 1671
ADELAIDE SA 5001

Dear Ms Petruzella,

RE: ANNUAL TECHNICAL REPORT FOR EL 3420

I wish to confirm that no work was undertaken on the Karinya Exploration Project (EL 3420) during the 12 month period ending 16 September 2008.

Yours sincerely

Bernard Holtshousen
Director

Phone: *61 7 5514 8897 ;* ***E-mail:*** *holt@bigpond.net.au*
Address: *5338 Marine Drive North, Sanctuary Cove, Qld 4212. Australia*

Sedex Minerals Pty Limited

ACN 113 595 798

3 March 2010

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Resource Development program
Minerals and Energy Resources
GPO Box 1671
ADELAIDE SA 5001

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Yours sincerely

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Director

Phone: *61 7 5514 8897* ***Fax****: 61 7 5514 8897* ***E-mail:*** *holt@bigpond.net.au*
Address: *5338 Marine Drive North Sanctuary Cove Qld 4212 Australia*