GOLDSTREAM MINING NL
ABN 67 009 129 560

Continental Nickel NL
A.C.N. 107 955 797

A fully owned subsidiary of
Goldstream Mining NL
A.C.N. 009 129 560

EL23545 Mt Peake Pastoral
Partial Relinquishment Report
For the Period 19 December 2002 to 18 December 2004

Volume 1 of 1

Tenure Holder: **Continental Nickel N.L.**
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Date: **January 2005**

Distribution

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SUMMARY

Exploration Licence 23545, Mt Peake Pastoral covering an area of 1,523km^2 is located approximately 250km north-northwest of Alice Springs in the Northern Territory. The licence was initially granted to Anglo American Exploration (Australia) Pty Ltd and then transferred to Continental Nickel NL, a fully owned subsidiary of Goldstream Mining NL on 8 September 2004.

This partial surrender report describes activities conducted on the 769.7km^2 portion of the licence that was relinquished during the reporting period 19 December 2002 to 18 December 2004.

Exploration activities have included a review of previous exploration conducted, initial field reconnaissance rock chip sampling, a soil sampling program and a TEM survey.

Activity / Licence	Soil Samples	Rock Samples	TEM Survey
EL 23545	115	1	8.1 line km

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1. INTRODUCTION

This compulsory second year relinquishment report details all exploration activities conducted on the relinquished 769.7km^2 portion of Exploration Licence 23545 ('Mt Peake Pastoral') during the period 19th December 2002 to 18th December 2004.

EL23545 'Mt Peake Pastoral' is located approximately 250km north-northwest of Alice Springs in the Northern Territory on the Mount Peake (SF 53-05) 1:250,000 map sheet and the Willowra (5455), Conical Hill (5555), Mount Peake (5454 and Anningie (5554) 1:100,000 map sheets. The Stuart Highway provides access to the region, then station tracks continue northwest to the project area (Figure 1).

EL23545 forms part of the Arunta Project that Continental Nickel NL is undertaking exploration on, in the southern extension of the Arunta Province. Exploration is aimed primarily at magmatic intrusive related nickel-copper-platinum group mineralisation of the Voisey's Bay (Canada), Noril'sk (Russia) and Jinchuan (China) style.

2. TENURE

Exploration Licence 23545 (Mt Peak Pastoral) was initially granted to Anglo American Exploration (Australia) Pty Ltd (AAEA) on 18 December 2002. On April 19 2004, AAEA signed a deal to sell the licence to Continental Nickel N.L. (Continental; a wholly owned subsidiary of Goldstream Mining N.L.). Continental became the registered holder of the licence on September 9 2004.

EL23545 originally covered an area of 1,523 km^2 but has now been reduced by 769.7 km^2 (this report) to 753.3 km^2 (Figure 2). Table 1 details the 249 partial and full sub blocks, on the Alice Springs Sheet, that have been surrendered.

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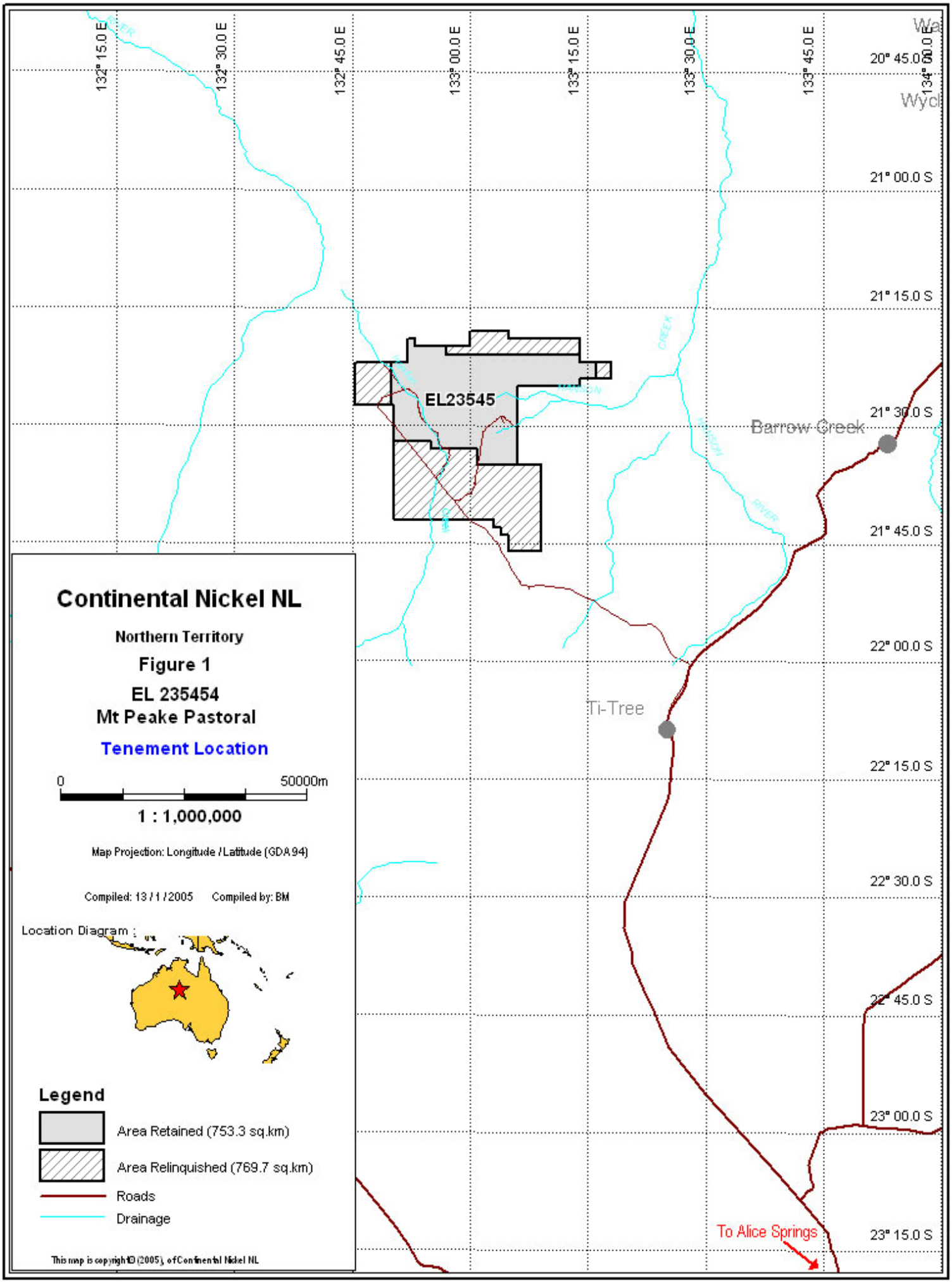


Table 1. EL23545 - Relinquished Sub-blocks.

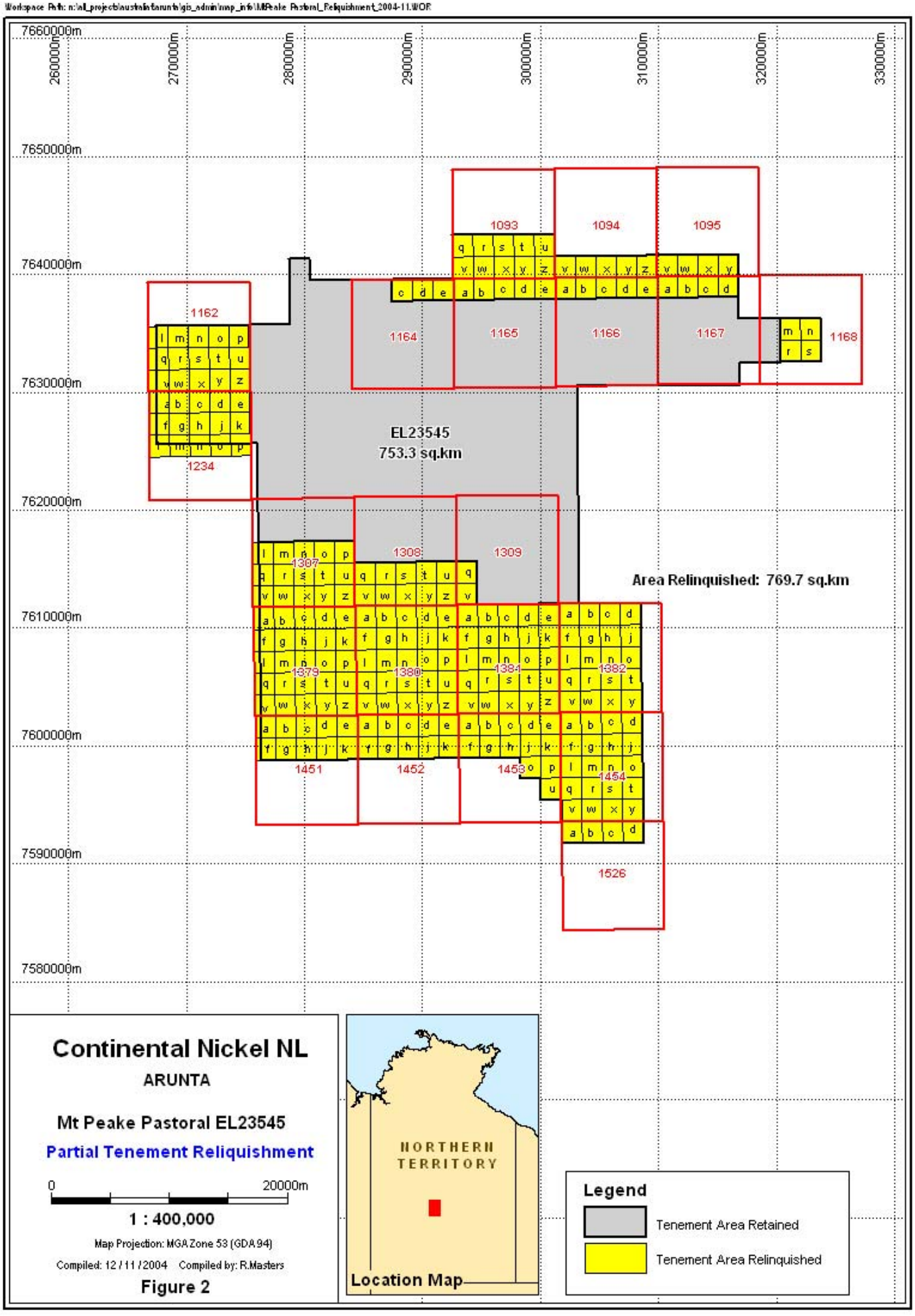
Block	A	B	C	D	E	F	G	H	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z
1093																X	X	X	X	X	X	X	X	X	X
1094																					X	X	X	X	X
1095																					X	X	X	X	
1162											x	X	X	X	X	x	X	X	X	X	x	X	X	X	X
1164			X	X	X																				
1165	X	X	X	X	X																				
1166	X	X	X	X	X																				
1167	X	X	X	X																					
1168												X	X				X	X							
1234	x	X	X	X	X	x	X	X	X	X	x	x	x	x	x										
1307											x	X	X	X	X	x	X	X	X	X	x	X	X	X	X
1308																X	X	X	X	X	X	X	X	X	X
1309																X					X				
1379	x	X	X	X	X	x	X	X	X	X	x	X	X	X	X	x	X	X	X	X	x	X	X	X	X
1380	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
1381	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
1382	X	X	X	X		X	X	X	X		X	X	X	X		X	X	X	X		X	X	X	X	
1451	x	X	X	X	X	x	X	X	X	X															
1452	X	X	X	X	X	X	X	X	X	X															
1453	X	X	X	X	X	X	X	X	X	X				X	X					X					
1454	X	X	X	X		X	X	X	X		X	X	X	X		X	X	X	X		X	X	X	X	
1526	X	X	X	X																					

Note: Full blocks X, partial blocks x

3. REGIONAL GEOLOGY

The lease area occurs on the southern margin of the North Australian Craton within the Palaeoproterozoic Northern Province of the Arunta Inlier. Recent mapping and geochronology (Close et al 2002) by scientists from the NTGS date the Northern Province to pre 1780 Ma. The relationship between the Arunta and Tanami provinces is poorly understood. Numerous workers (e.g. Blake et al,1975; Shaw & Stewart, 1975; Shaw 1975, 1990) have suggested the meta-sedimentary basement sequences of the Arunta province and the Granites-Tanami province may be lateral equivalents. Both provinces share similar stratigraphy, magmatic and deformation histories.

Quaternary Aeolian sands and red soil largely cover the lease area with calcrete occurring in the northeast and southern sections of the lease. Deeply weathered Tertiary units including ferricrete also crop out within the northeast and southeast portions of the lease. Units of the Lander Rock Beds crop out near Mt Rennie, Limestone Bore and Well and the Anningie Tin Field on the eastern border of the ease. The Lander Rock Beds have variable metamorphic grades ranging from lower greenschist to lower amphibolite facies**.** The lithologies identified within these stratigraphic units include orthogneiss, calc-silicates, schists, arenites, phylites amphibolites and felsic volcanic rocks. Intrusions of granite and porphyritic granite occur associated with linear features to the southeast of the Anningie Tin Field.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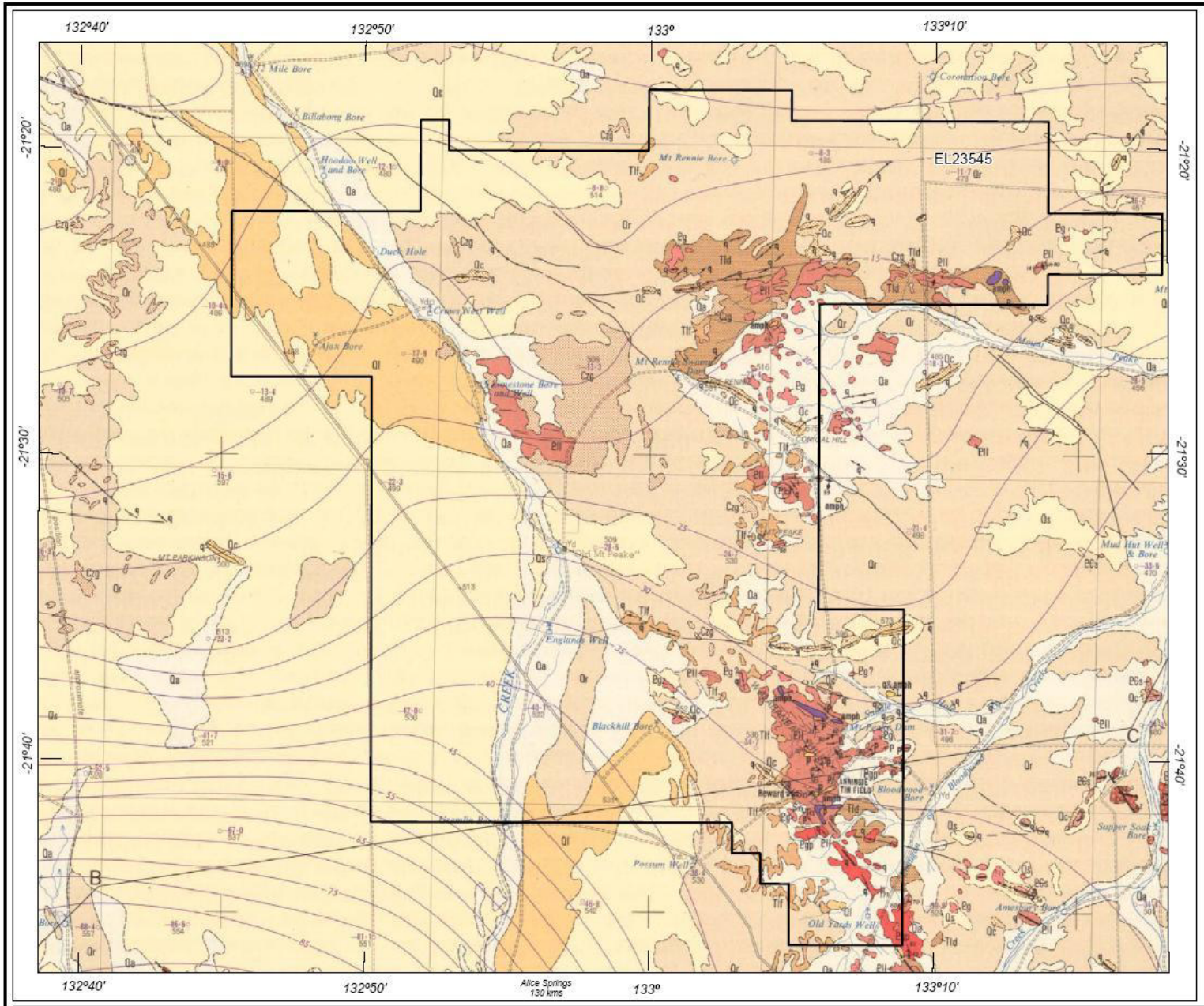
1234
EL23545
753.3 sq.km
1307
1308
1309
1379
1380
1381
1382
1451
1452
1453
1454
1526
Area Relinquished: 769.7 sq.km
Continental Nickel NL
ARUNTA
Mt Peake Pastoral EL23545
Partial Tenement Reliquishment
0
20000m
1 : 400,000
Map Projection: MGA Zone 53 (GDA 94)
Compiled: 12 / 11 / 2004 Compiled by: R.Masters
Figure 2
NORTHERN TERRITORY
Location Map
Legend
Tenement Area Retained
Tenement Area Relinquished



Qc Colluvium
Cl Calcrete
Qa Alluvium, river gravel
Qs Aeolian sand
Qr Red soil
Cgc Fanglomerate
Cg Ferricrete gravel and angular quartz gravel
Tf Ferricrete
Ts Silcrete
Td Deeply weathered rock
Tu Undivided silcrete, ferricrete, and deeply weathered rock
PCs Basal tillite, grey arkosic conglomerate, grey green calcareous pelite and minor dolomitic limestone; grey pelite, grey arkose, and reddish purple coarse feldspar–quartz sandstone
Pwq Coarse orthoquartzite with rare basal conglomerate
Pw Pink, white, purplish-brown quartz sandstone; minor pebbly quartzite
Basal conglomerate: rounded phenoclasts of quartzite in quartz sandstone matrix
Pg Granite; commonly contains metasedimentary xenoliths
Pgp Grey coarse porphyritic granite
Pga Grey coarse porphyritic granite with rapakivi texture; includes tourmaline-bearing fine variant
Pep Biotite–muscovite schist, muscovite quartz sandstone, hematite–quartz sandstone, feldspar–quartz sandstone
Pet White, fine to medium orthoquartzite and thin bedded tourmaline orthoquartzite
Pts Layered grey and brown cordierite and andalusite hornfels; pyroxene hornfels near Anmatjira Granite
Ptl Mica schist with rare sillimanite, phyllite, micaceous meta-sandstone with rare andalusite, hornfels and biotite gneiss. Contains amphibolite plugs and possible flows
pCb Metabasalt, amphibolite

LOCATION MAP

N W E S

0 5 10
Kilometres

LEGEND

AAEA TENEMENT

Continental Nickel NL

REGION: ARUNTA
PROJECT: Mt Peake
DRAWING No:

AUTHOR: R Goodgame
COMPILED BY: C Lucy
DATE: 26/06/2003
PROJECTION: Zone 53 (AGD66)
SCALE: 1:250,000

Figure 3
MT PEAKE GEOLOGY

Table 2. Important Orogenic and Magmatic events within the Arunta Province:

Event	Radiometric Age	Description	Reference
Barramundi	1890 –1850Ma.	Intrusion by mafic rocks, regional deformation & metamorphism (<amphibolite facies).	Page & Williams, 1988
	1820-1800 Ma.	Intrusion of Granite Plutons	
Hatches Creek Group	?	Deposition of platform quartzite-shale-carbonate sediments (Reynolds Range group/Hatches creek) unconformably overlying the Metamorphic basement.	Blake et al, 1987
	?	Tight upright folding of Hatches Creek group.	
Strangeways Orogeny	1780-1730 Ma.	Strange ways Granulite event	Shaw et al, 1984
Aileron	1760-1650 Ma	Aileron retrogressive metamorphic event.	Windrim & McCulloch, 1986
Granite intrusion	1760 – 1570 Ma.	Multiple granite intrusion events at 1780-1770, 1713, 1635 & 1570 Ma.	
Alice Springs Orogeny	350-300Ma	Open folding and faulting of the Georgina basin	Haines, Hand & Sandiford

Government mapped geology is included as Figure 3.

4. EXPLORATION ACTIVITES

Work carried out by AAEA during the tenure of the licence has included data and literature reviews (see Appendix 5), rock chip sampling, soil sampling and a TEM survey.

Table 3. Summary of Exploration Activities

Activity / Licence	Soil Samples	Rock Samples	TEM Survey
EL 23545	115	1	8.1 line km

AAEA targeted the area to explore for magmatic intrusive related nickel-copper-platinum group mineralisation of the Voisey's Bay (Canada), Noril'sk (Russia) and Jinchuan (China) style. The target generation philosophy is based on recognition of aeromagnetic and gravity anomalies associated with mafic and ultramafic intrusive bodies and major structures along or adjacent to Pre-cambrian cratonic margins, utilizing published continental scale geological and geophysical data sets. In many cases these prospective intrusive bodies have not been previously recognized or have been subjected to only limited exploration.

4.1.Geophysics - TEM Survey

Acquisition and Processing

A TEM program was conducted by AAEA over the Mt Peake project area from the 16th September 2003 – 27th October 2003. The TEM program was designed to target Ni mineralisation associated with discrete aeromagnetic

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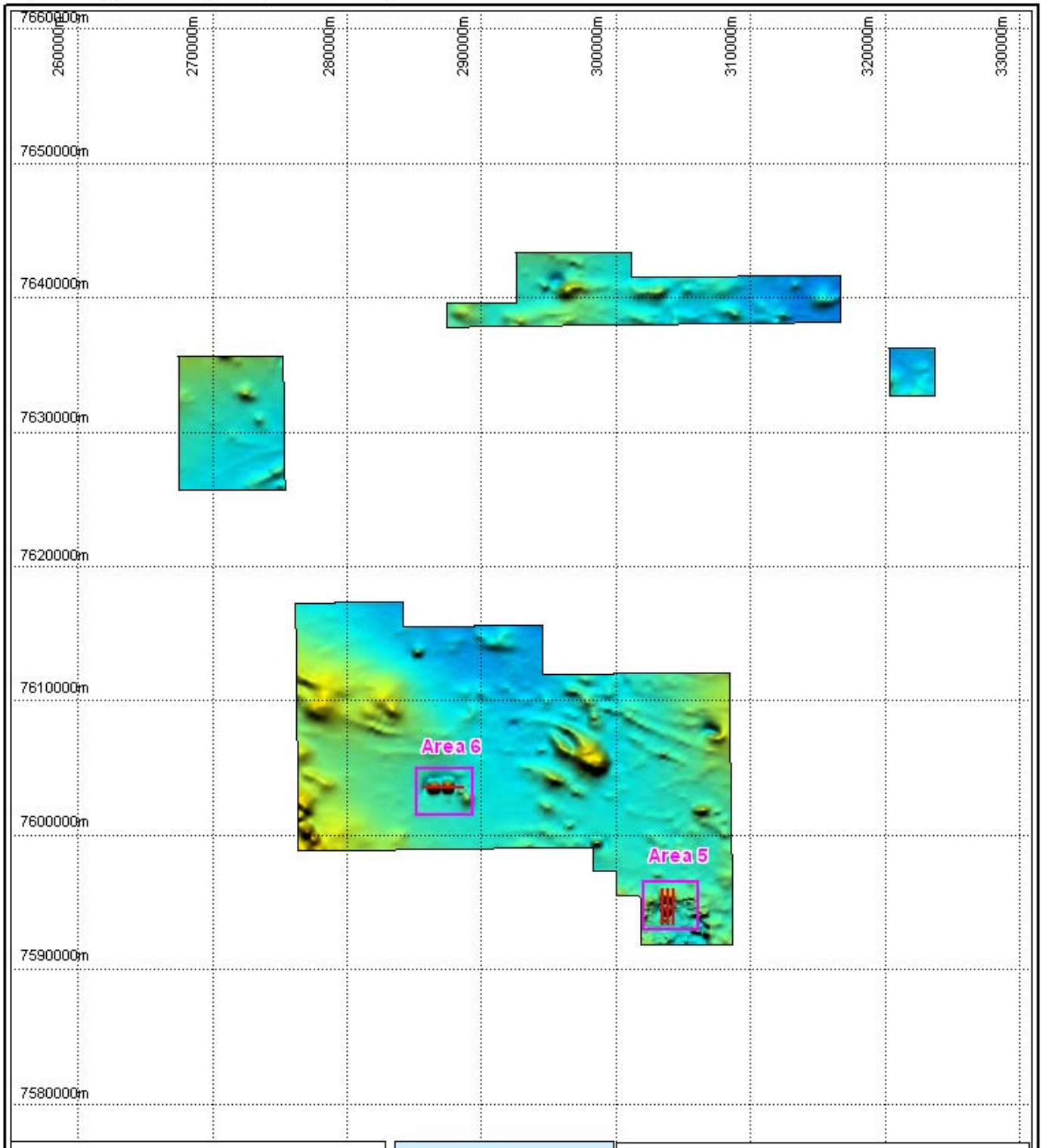


Continental Nickel NL

ARUNTA

Mt Peake Pastoral EL23545

TEM Line Locations

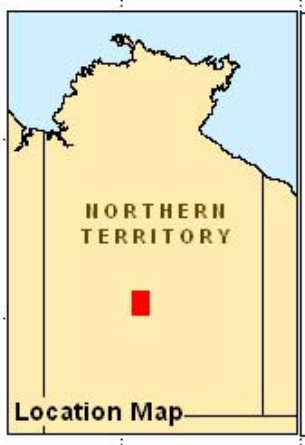
0 20000m

1 : 400,000

Map Projection: MGA Zone 53 (GDA 94)

Compiled: 14/01/2005 Compiled by: BM

Figure 4



Legend

TEM Survey Lines

features interpreted as mafic intrusives from previous exploration data. The TEM survey was conducted over 2 project areas in the surrendered portion of the licence. The locations of the 4 TEM survey lines are shown in Figure 4.

Bindi Geotechnical Services were contracted to collect the TEM survey data using a North South line orientation in the northern area and an East West orientation in the south. Line spacings of 400m with a 200m loop size and moves were utilised. Two Survey lines were collected using a 100m loop size and moves to improve data resolution. The TEM data was recorded using an In loop configuration with a ZT-30 Transmitter, Smartem receiver and a TEM-3 Sensor. A frequency of 4.1667Hz and Sirotem standard window times were used to record the TEM data.

The TEM data was acquired using a gain of 1.0 and 100; with each reading repeated at every station. CDI sections were produced for each line of data using Emax software. The CDI results are shown with the profile data in Appendix 1, Figures 5 to 8.

A summary of the TEM survey lines collected over the relinquished area is shown below in Table 4. A total of 8.1 line km of TEM data was collected.

Table 4. TEM Line Summary

Line	Loop Size	From	To	Length	Area
303500	200	7593500	7595900	2.4	5
303900	200	7593500	7595900	2.4	5
304300	200	7593500	7595900	2.3	5
7606300	200	285700	286700	1	6

Interpretation

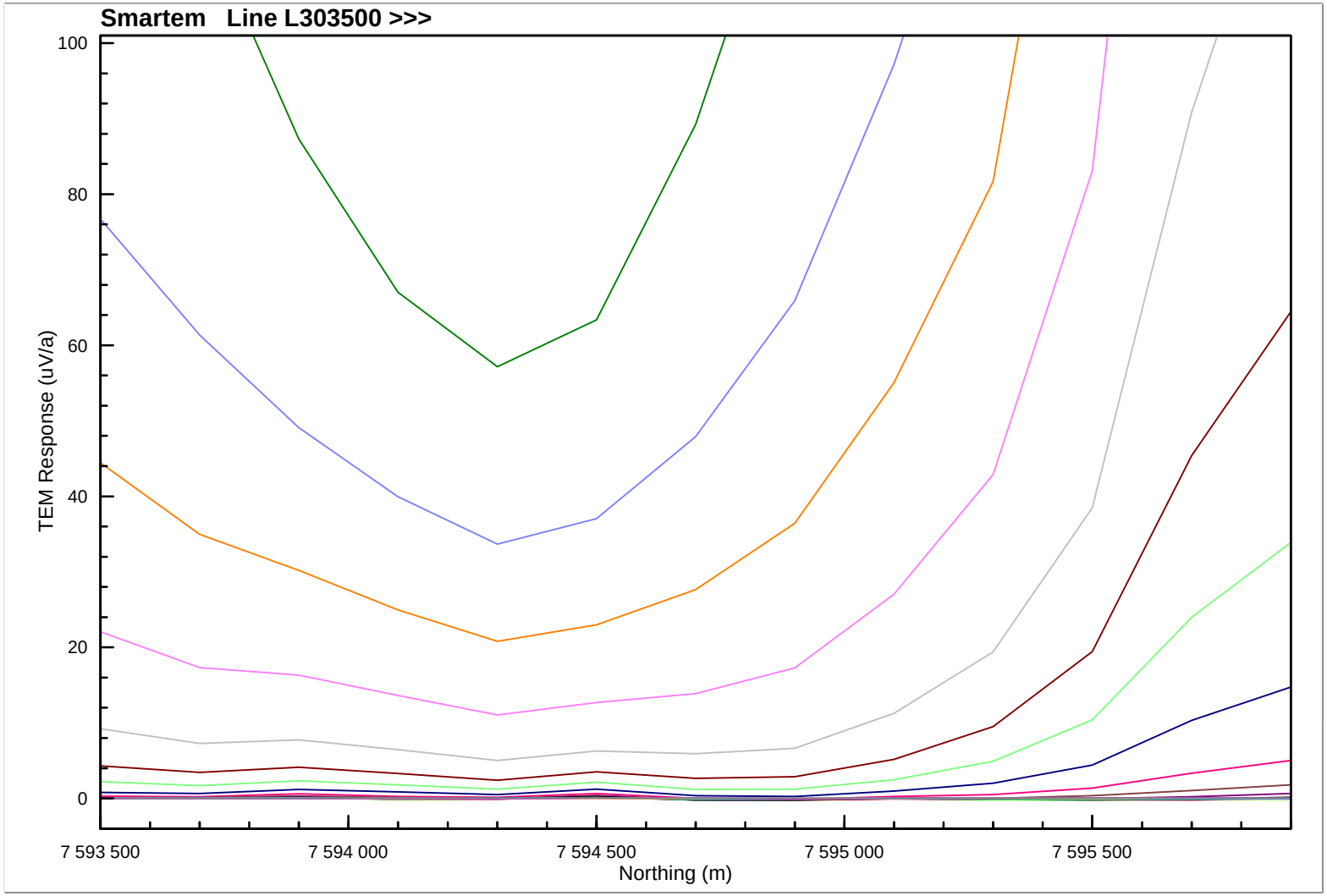
AREA 5 Old Yards Well

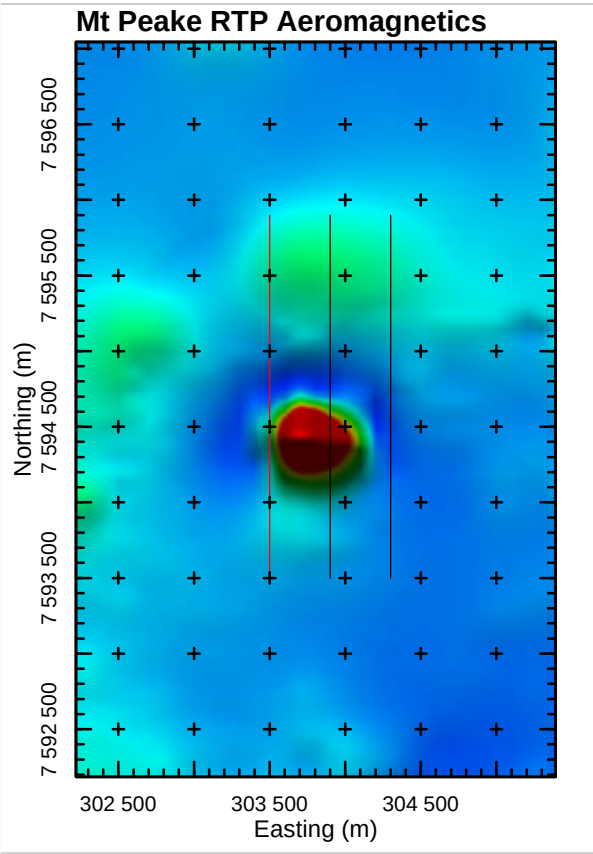
Three Lines of TEM were collected over a single high amplitude aeromagnetic response (Figure 4 to 7). A conductive cover response was recorded on the northern end of the lines, the 250K geology indicates ferricrete and alluvium/river gravel lithologies present in the survey area but these do not appear to correlate with the area of cover response. The cover response has been interpreted to be due to clay rich lithologies.

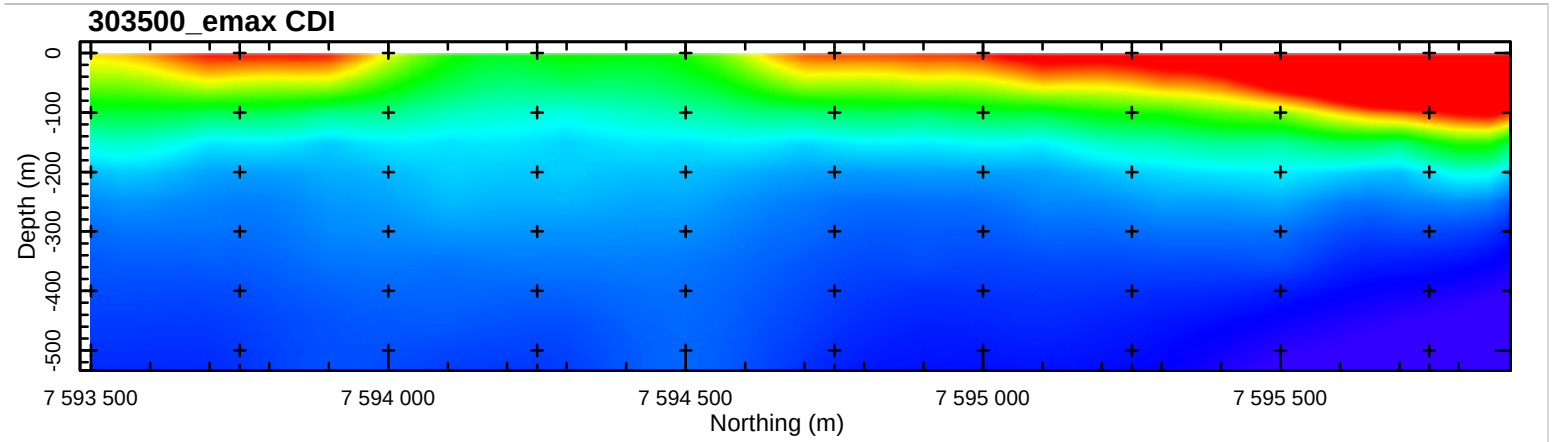
AREA 6

A single line of TEM was targeted over a double peaked high amplitude aeromagnetic feature shown in Figure 4 and 8. Only half of the planned TEM line was acquired due to equipment failure on the last day of the survey. The TEM data collected showed a uniform resistive response in an area mapped as alluvium and river gravels.

No Strong bedrock conductor responses were identified in the TEM survey. Three lines have recorded weak to moderate conductive responses, which appear to be due to a bedrock source.







Survey Parameters

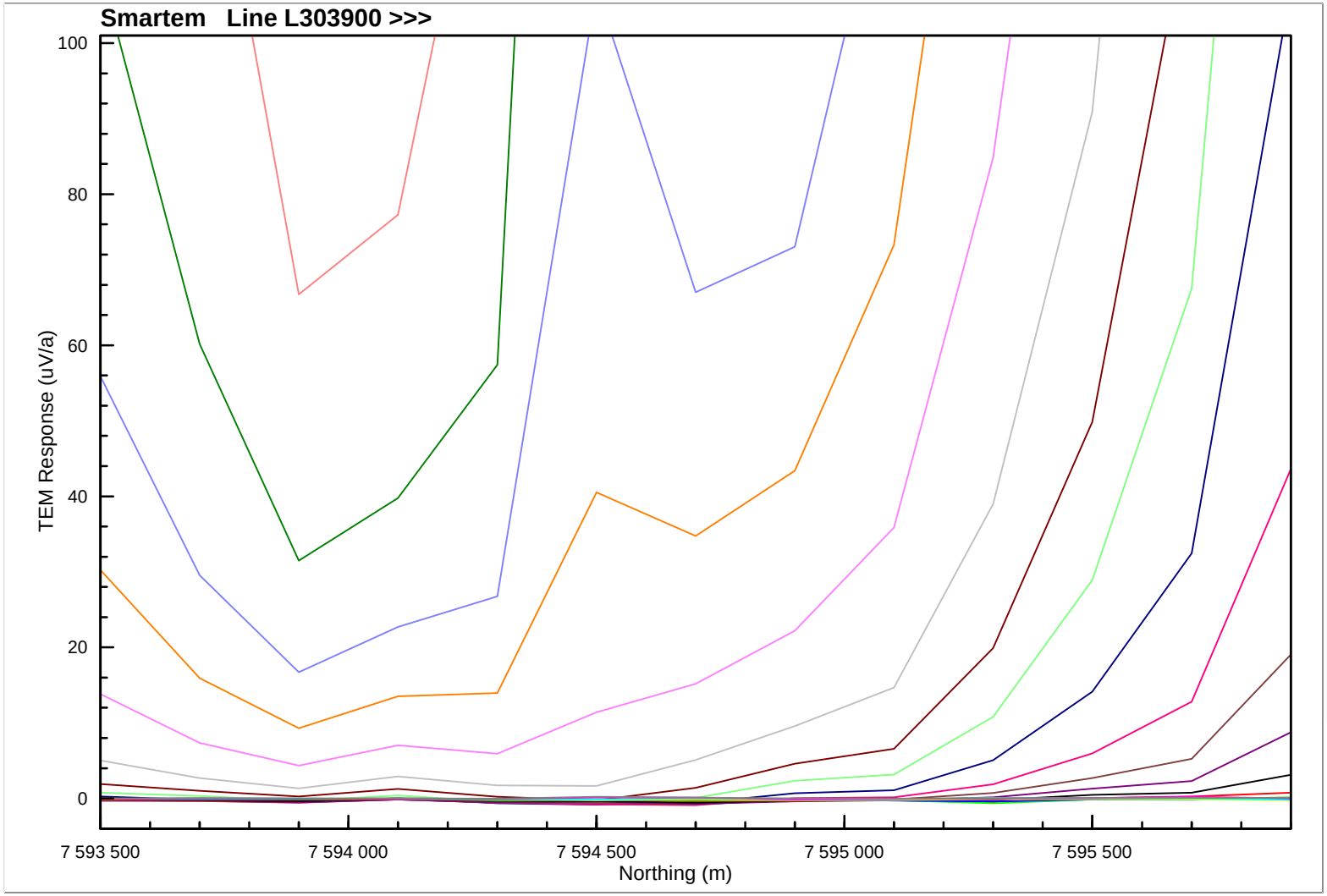
Configuration: In Loop	Freq: 4.1667
Loop Size: 200m	Current: 13
Tx: ZT30	No Chs: 32
Rx: Smartem	Ramp Time: 200
Sensor: TEM3	Contractor: Bindis

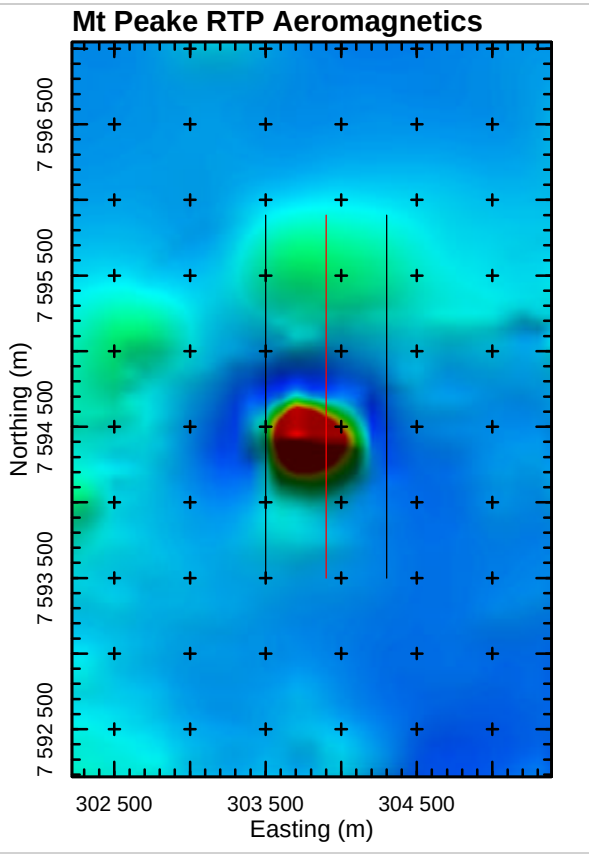
ANGLO AMERICAN

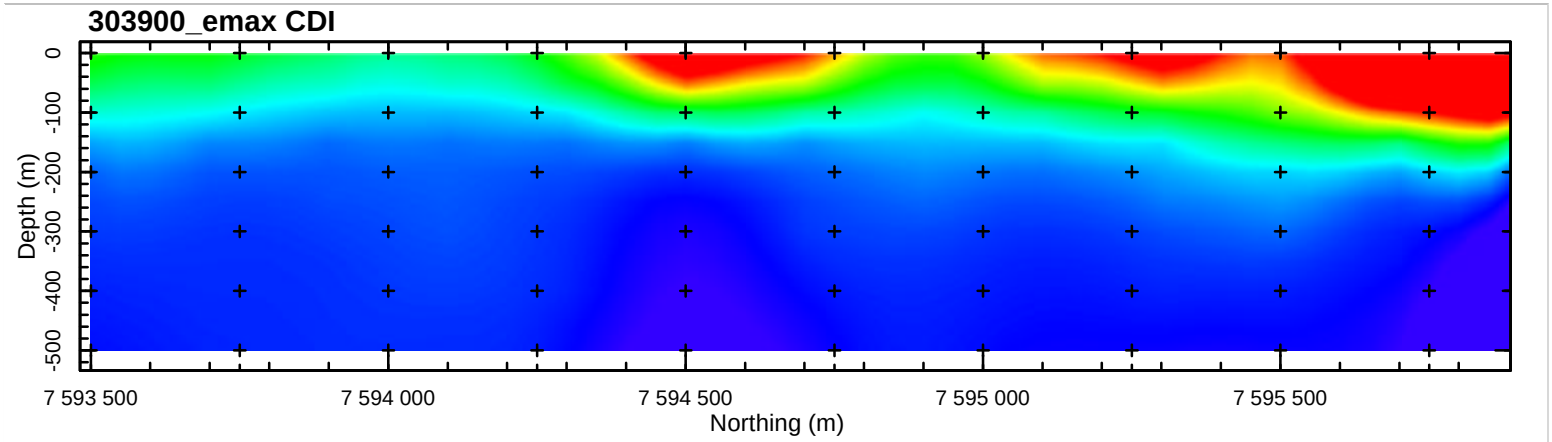
Mt Peake
EL23545

Area 5
TEM Survey 2003
Line 303500

Figure 5







Survey Parameters

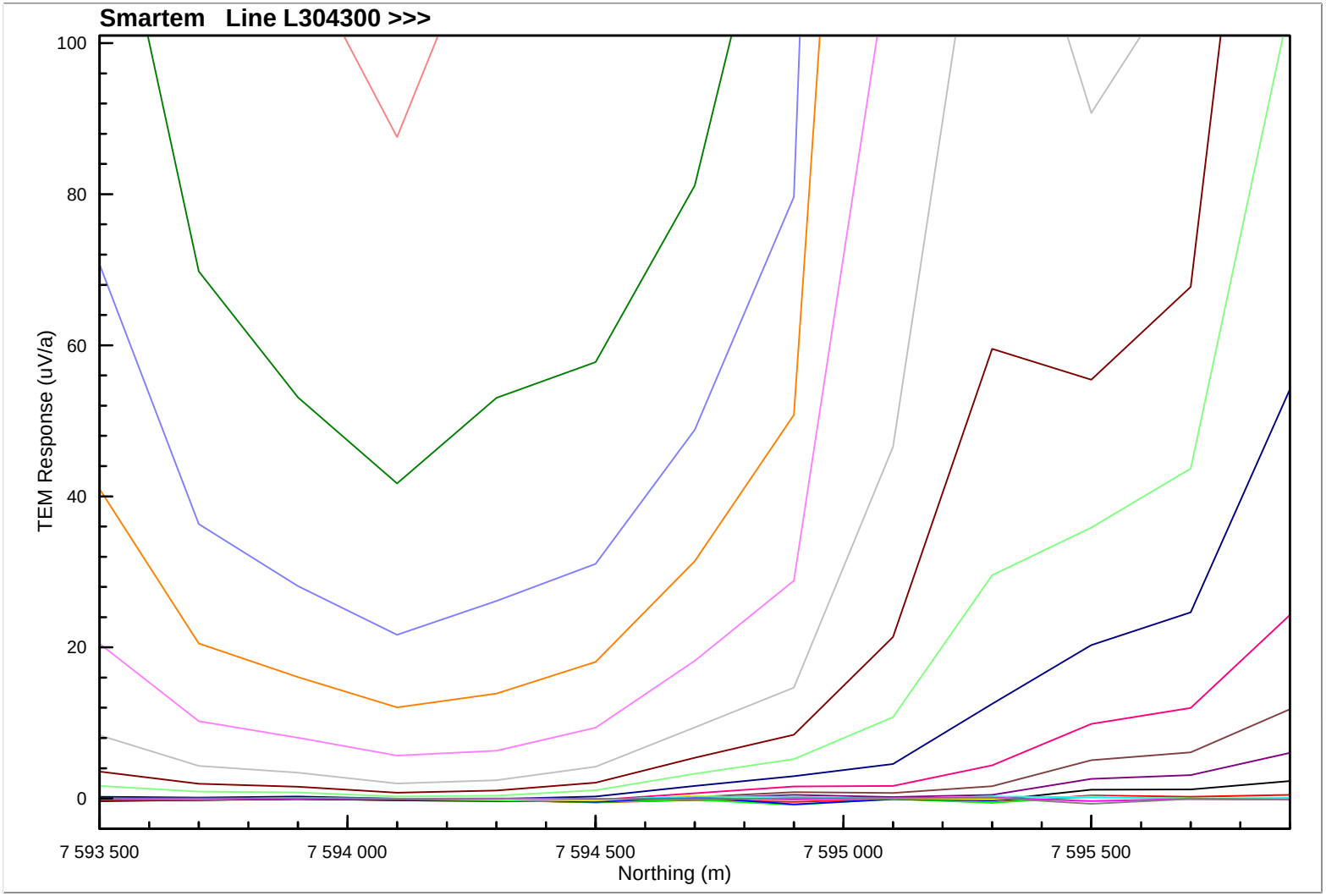
Configuration: In Loop	Freq: 4.1667
Loop Size: 200m	Current: 13
Tx: ZT30	No Chs: 32
Rx: Smartem	Ramp Time: 200
Sensor: TEM3	Contractor: Bindis

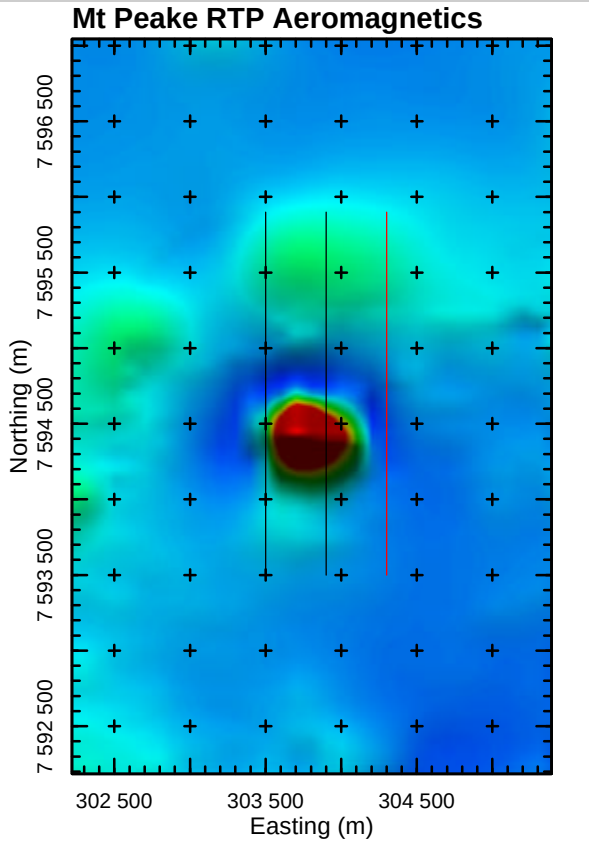
ANGLO AMERICAN

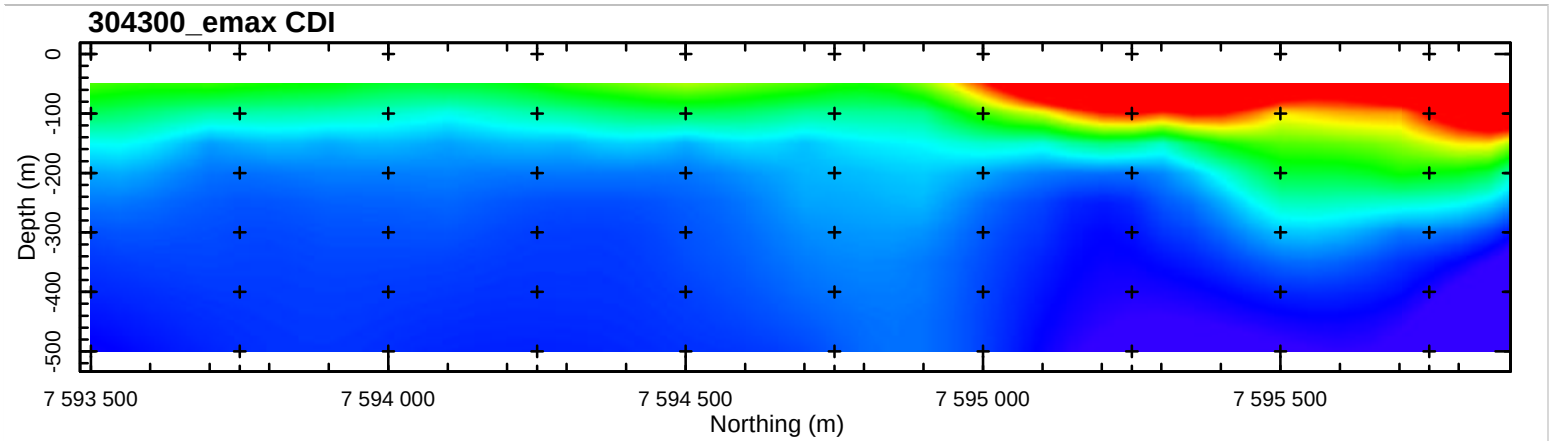
Mt Peake
EL23545

Area 5
TEM Survey 2003
Line 303900

Figure 6







Survey Parameters

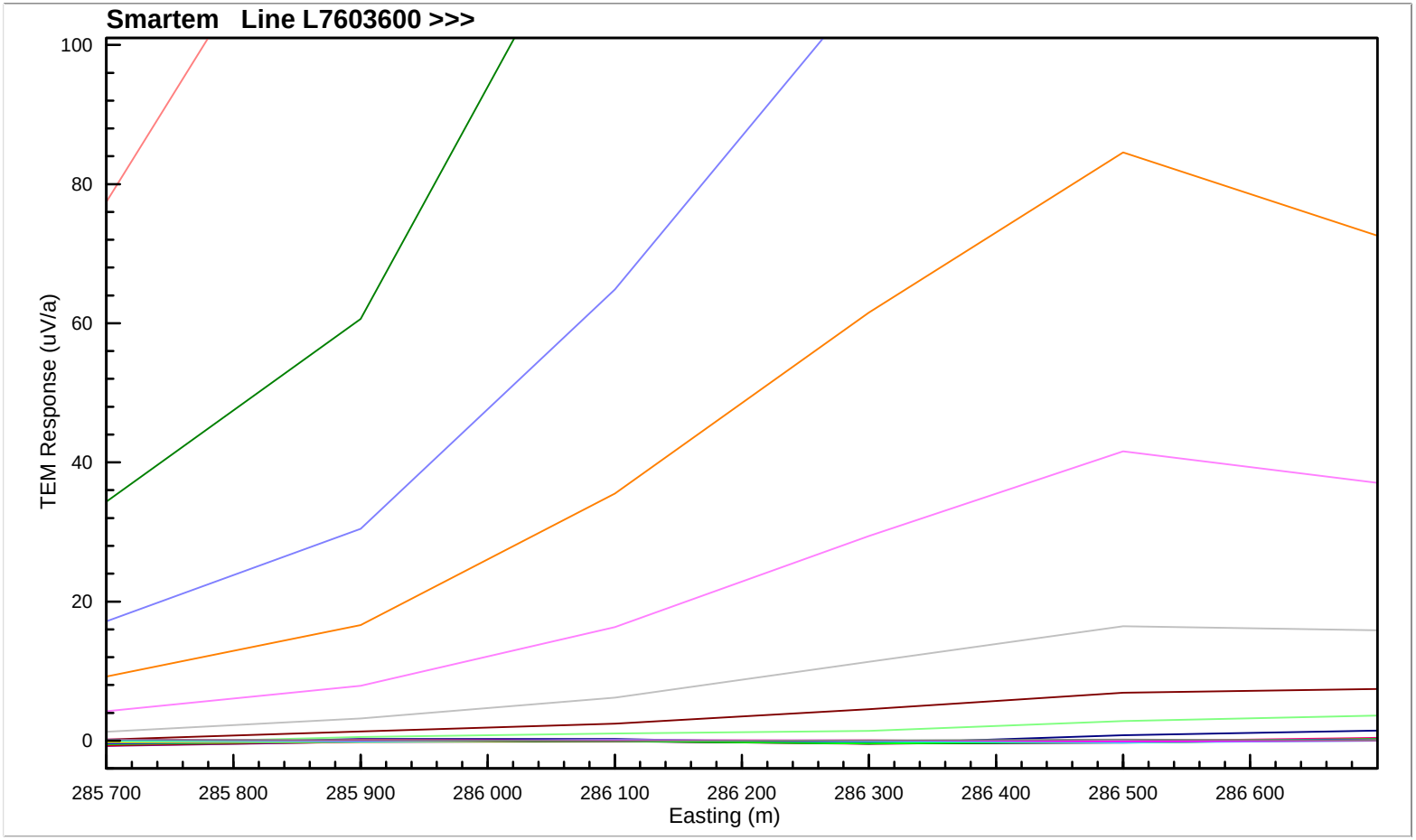
Configuration: In Loop	Freq: 4.1667
Loop Size: 200m	Current: 13
Tx: ZT30	No Chs: 32
Rx: Smartem	Ramp Time: 200
Sensor: TEM3	Contractor: Bindis

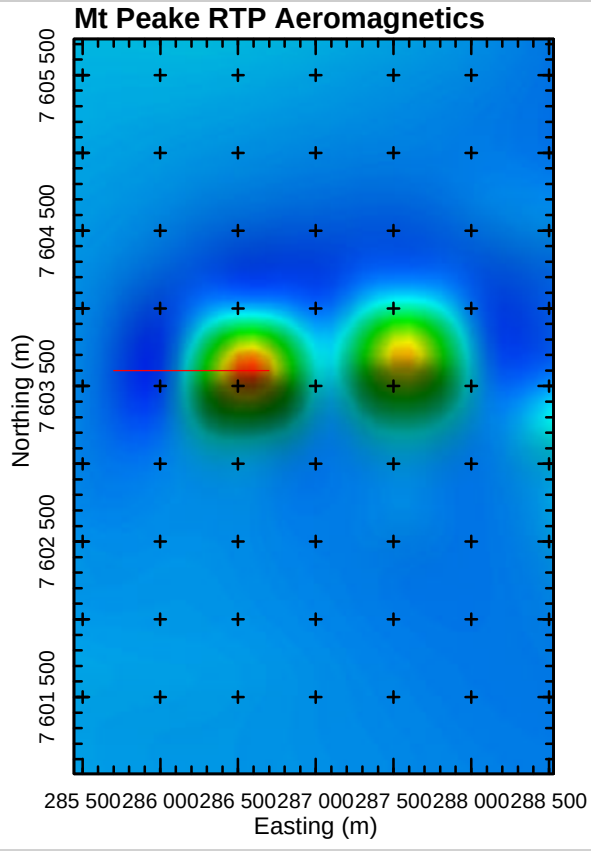
ANGLO AMERICAN

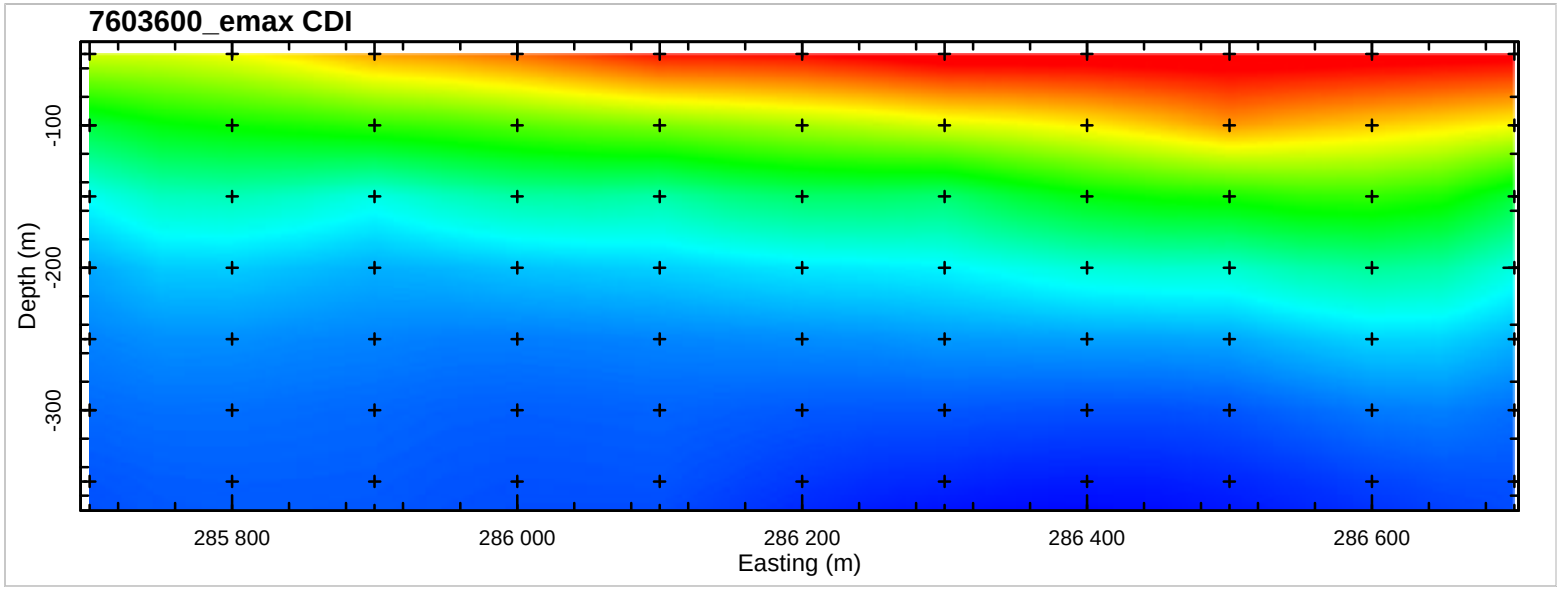
Mt Peake
EL23545

Area 5
TEM Survey 2003
Line 304300

Figure 7







Survey Parameters

Configuration: In Loop	Freq: 4.1667
Loop Size: 200m	Current: 13
Tx: ZT30	No Chs: 32
Rx: Smartem	Ramp Time: 200
Sensor: TEM3	Contractor: Bindis

ANGLO AMERICAN

Mt Peake
EL23545

Area 6
TEM Survey 2003
Line 7603600N

Figure 8

A Thin conductive cover layer has been recorded in several of the project areas and over several lines. The Ground TEM shows the cover thickness is <50m in most instances and did not prevent the Ground TEM survey from being an effective exploration tool. The frequency and extent of the negative TEM responses make a disseminated sulphide source unlikely.

No strong bedrock conductor responses were recorded in the TEM survey. The targeted style of Ni mineralisation in the Mt Peake project area was expected to produce a strong bedrock conductor response proximal to an aeromagnetic response.

The areas targeted with the TEM survey were inferred to contain mafic lithologies on the basis of previous drilling, soil sampling data and an aeromagnetic interpretation.

4.2 Geochemical Sampling

A total of 116 geochemical surface samples were collected. All samples were despatched to ACME Vancouver for Gp-1FMS analysis with all results reported in July 2003. The samples were assayed for Ag, Al, As, Au, B, Ba, Be, Bi, Ca, Cd, Ce, Co, Cr, Cs, Cu, Fe, Ga, Ge, Hf, In, K, La, Li, Mg, Mn, Mo, Na, Nb, Ni, P, Pb, Pd, Pt, Rb, Re, S, Sb, Sc, Se, Sr, Ta, Te, Th, Ti, Tl, U, V, W, Yb, Zn, Zr. Analysis specifications are outlined in Appendix 4.

Rock Chip Sampling

A single rock chip sample was collected from the surrendered area during the course of a reconnaissance field trip. Figure 9 shows the sample location while the rock description is listed below and the assays for these samples are included in Appendix 2.

Table 5. Rock chip descriptions.

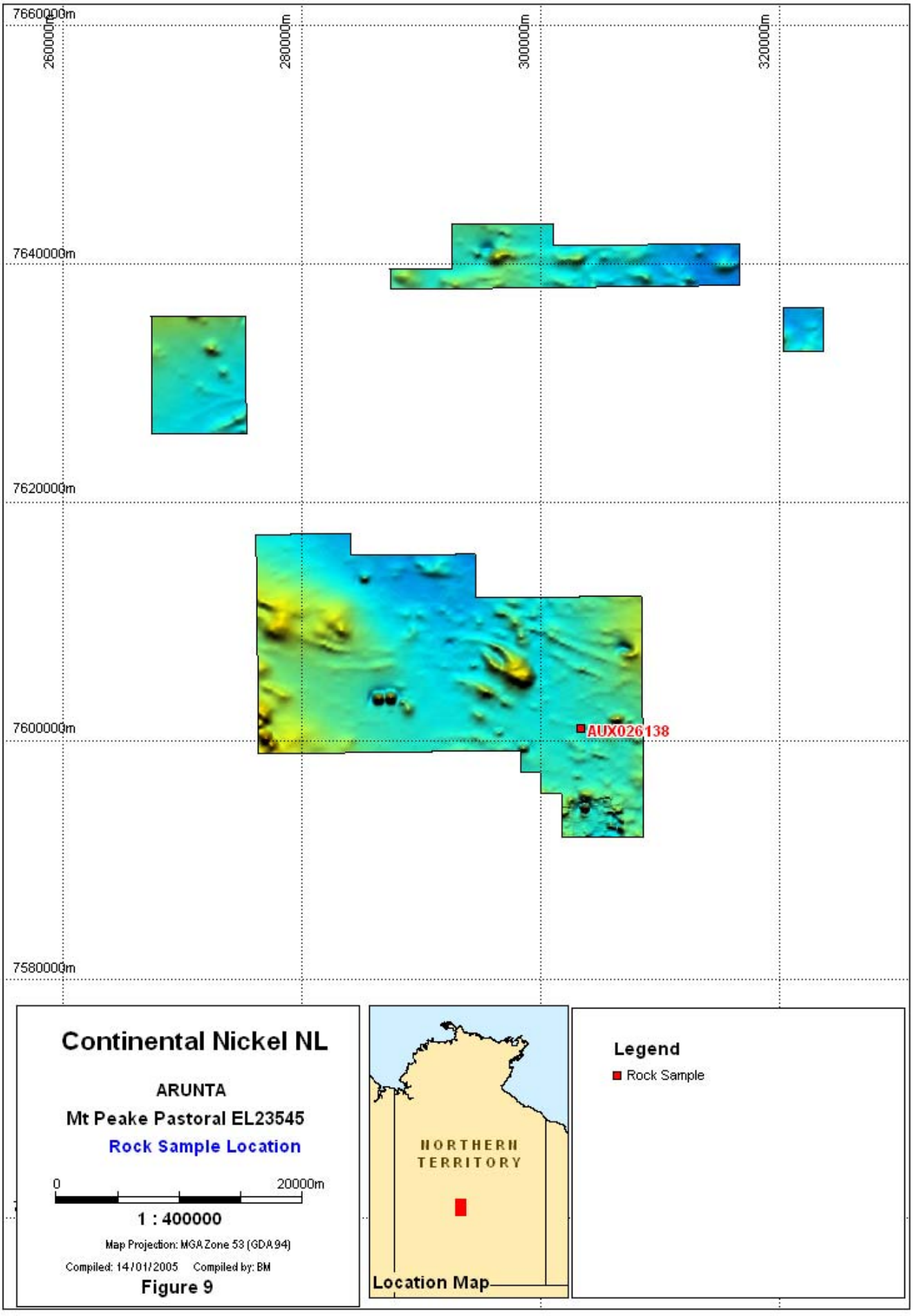
Sample	***Easting***	***Northing***	***Description***
AUX026138	303400	7601000	scapolitised massive gabbro

Soil Sampling

A 500 x 500 m –250um regional soil survey was conducted over two selected magnetic anomalies in the Mt Peake region between 9th June – 16th June 2003. The locations of these samples are shown on Figure 10. All 115 samples were taken *in situ.* Assays for these samples, including duplicates, are included in Appendix 3.

Geomorphology and Regolith

The Mt Peake region is characterised by flat (typically 500 – 525 m) sand covered landscape. The landscape is dissected by mature alluvial systems, the Ingallan Creek trending S-NW through the western side of the leases and the Mt Peaks Creek and Murray/Bloodwood creeks trending east with a major water divide in the central portion of the leases. Vegetation is grasslands and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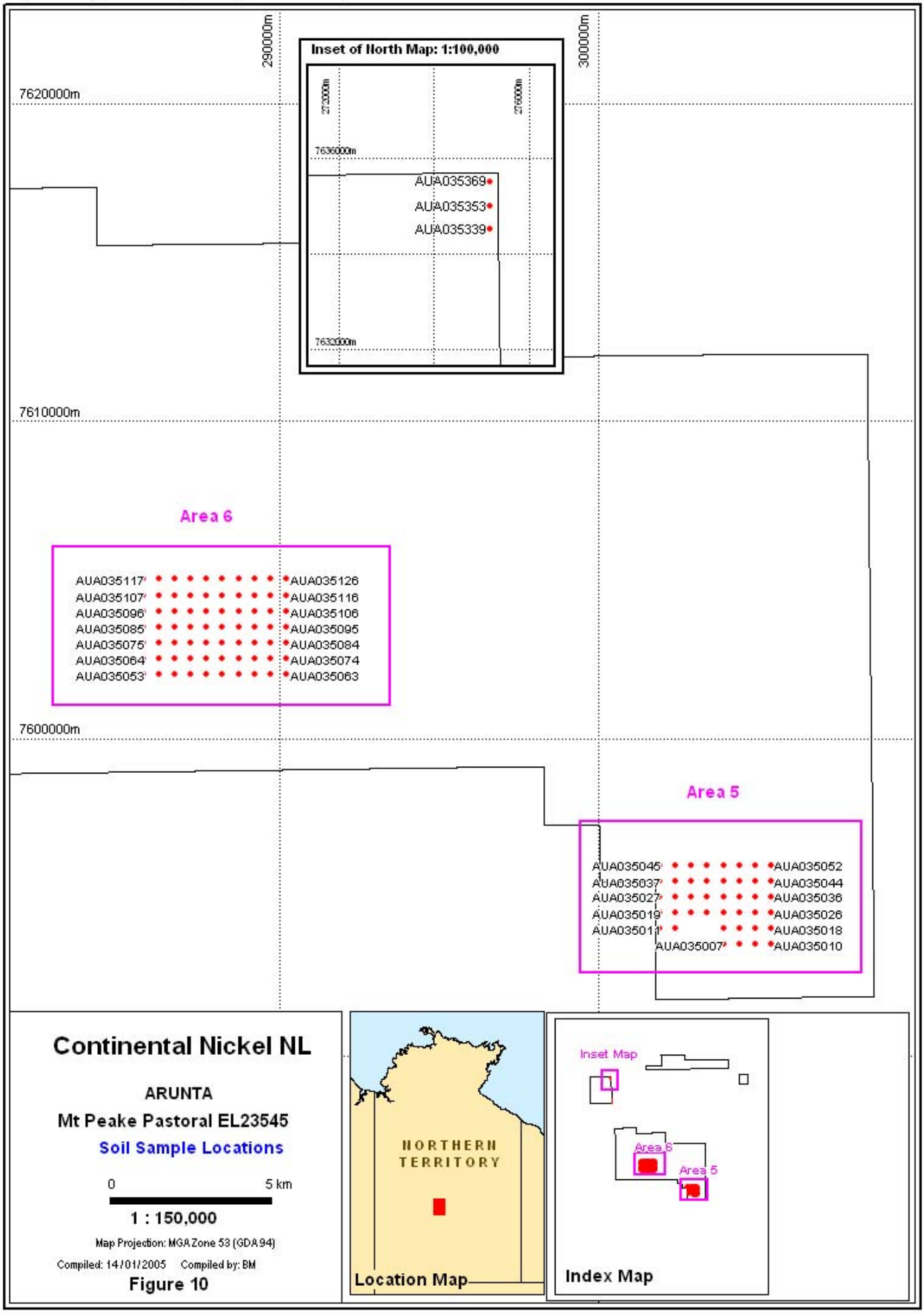
2800000m
3000000m
3200000m
7640000m
7620000m
7600000m
7580000m
AUX026138
Continental Nickel NL
ARUNTA
Mt Peake Pastoral EL23545
Rock Sample Location
0
20000m
1 : 400000
Map Projection: MGA Zone 53 (GDA 94)
Compiled: 14/01/2005 Compiled by: BM
Figure 9
NORTHERN TERRITORY
Location Map
Legend
Rock Sample



spinifex on the open flat plains with dense mulga and occasional eucalypts aligning the alluvial channels. Occasional topographic relief from outcropping lithologies are present in the central portion of the lease around Mount Peake (546 m) Conical Hill (567 m) and Mount Rennie (574 m). Rock exposures range from "fresh" to intensely weathering.

5. EXPENDITURE

Expenditure over the relinquished portion of EL23545 during the tenure period is estimated to be approximately $ 23,000.

6. CONCLUSION AND RECOMMENDATIONS

Evaluation of the regional geophysical data in conjunction with the results of surface sampling indicates that the relinquished area of EL23545 Mt Peak Pastoral is unlikely to contain significant Ni sulphide exploration targets. The 769.7km^2 area is therefore surrendered.

7. REFERENCES

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APPENDICES

All Appendices are attached in digital format on the report CD.
Files in italics have not been printed.

Appendix 1 TEM Digital Data And Profiles

EL23545_Partial_Relinq_2004_Appendix 1_TEM_Area_5_header.txt

EL23545_Partial_Relinq_2004_Appendix 1_TEM_Area_5.txt

EL23545_Partial_Relinq_2004_Appendix 1_TEM_Area_6_header.txt

EL23545_Partial_Relinq_2004_Appendix 1_TEM_Area_6.txt

EL23545_Partial_Relinq_2004_Figure 5-7 Area5_Prof_CDI_sections.pdf

EL23545_Partial_Relinq_2004_Figure 8 Area6_Prof_CDI_sections.pdf

Appendix 2 Rock Assays

EL23545_Partial_Relinq_2004_Appendix 2_Rock_Chip_assays.txt

Appendix 3 Soil Assay

EL23545_Partial_Relinq_2004_Appendix 3_Soil_sample_assays.txt

Appendix 4 Analysis Specifications

EL23545_Partial_Relinq_2004_Appendix 4_Analysis_Specifications.pdf

Appendix 5 Previous Exploration

EL23545_Partial_Relinq_2004_Appendix 5_Previous_Exploration.pdf

APPENDIX 2 - Rock Assays

APPENDIX 2 - ROCK ASSAYS

SAMPLEID	GRIDNAME	EAST	NORTH	Details	Al2O3	As	Ba	Bi	C	CaO	Cd	Ce	Co	Cr2O3	Cs	Cu	Dy	Er	Eu	Fe2O3	Ga
				Units	*pct*	*ppm*	*ppm*	*ppm*	*pct*	*pct*	*ppm*	*ppm*	*ppm*	*pct*	*ppm*	*ppm*	*ppm*	*ppm*	*ppm*	*pct*	*ppm*
				Method	*4AWR*	*4BTD*	*4AWR*	*4BTD*	*4ALC*	*4AWR*	*4BTD*	*4BWR*	*4BWR*	*4AWR*	*4BWR*	*4BTD*	*4BWR*	*4BWR*	*4BWR*	*4AWR*	*4BWR*
				Upper Det	*0.03*	*1*	*5*	*0.1*	*0.01*	*0.01*	*0.1*	*0.5*	*0.5*	*0.001*	*0.1*	*0.1*	*0.05*	*0.05*	*0.05*	*0.04*	*0.5*
				Lower Det	*0.01*	*1*	*1*	*0.1*	*0.01*	*0.01*	*0.1*	*0.1*	*0.1*	*0.001*	*0.1*	*0.1*	*0.01*	*0.01*	*0.01*	*0.01*	*0.1*
AUX026138	WGS84-53	303400	7601000	Result	11.95	3	305	0.4	0.01	8.14	0.2	61.7	43.2	0.003	18.3	27.4	9.03	5.01	1.96	16.51	21.1

SAMPLEID	Gd	Hf	Ho	K2O	La	LOI	Lu	MgO	MnO	Mo	Na2O	Nb	Nd	Ni	Ni	P2O5	Pb	Pr	Rb	Rh	S	Sb	Sc
	ppm	*ppm*	*ppm*	*pct*	*ppm*	*pct*	*ppm*	*pct*	*pct*	*ppm*	*pct*	*ppm*	*ppm*	*ppm*	*ppm*	*pct*	*ppm*	*ppm*	*ppm*	*ppb*	*pct*	*ppm*	*ppm*
	4BWR	*4BWR*	*4BWR*	*4AWR*	*4BWR*	*4ALO*	*4BWR*	*4AWR*	*4AWR*	*4BTD*	*4AWR*	*4BWR*	*4BWR*	*4AWR*	*4BTD*	*4AWR*	*4BTD*	*4BWR*	*4BWR*	*3BMS*	*4ALC*	*4BTD*	*4AWR*
	0.05	*0.5*	*0.05*	*0.02*	*0.5*	*0.1*	*0.01*	*0.01*	*0.01*	*0.1*	*0.01*	*0.5*	*0.4*	*20*	*0.1*	*0.01*	*0.1*	*0.02*	*0.5*	*0.05*	*0.01*	*0.1*	*1*
	0.01	*0.1*	*0.01*	*0.01*	*0.1*	*0.1*	*0.01*	*0.01*	*0.01*	*0.1*	*0.01*	*0.1*	*0.1*	*1*	*0.1*	*0.01*	*0.1*	*0.01*	*0.1*	*0.01*	*0.01*	*0.1*	*1*
AUX026138	7.27	5.1	1.63	1.32	23.6	1.4	0.75	3.54	0.21	0.7	1.97	9.3	29.9	20	13.7	0.46	9.5	6.6	77		0.01	1	41

SAMPLEID	SiO2	Sm	Sn	Sr	SUM	Ta	Tb	Th	TiO2	Tl	Tm	U	V	W	Y	Yb	Zn	Zr
	pct	*ppm*	*ppm*	*ppm*	*pct*	*ppm*	*ppm*	*ppm*	*pct*	*ppm*	*ppm*	*ppm*	*ppm*	*ppm*	*ppm*	*ppm*	*ppm*	*ppm*
	4AWR	*4BWR*	*4BWR*	*4BWR*	*4AWR*	*4BWR*	*4BWR*	*4BWR*	*4AWR*	*4BTD*	*4BWR*	*4BWR*	*4BWR*	*4BWR*	*4BWR*	*4BWR*	*4BTD*	*4BWR*
	0.02	*0.1*	*1*	*0.5*	*0*	*0.1*	*0.01*	*0.1*	*0.01*	*0.1*	*0.05*	*0.1*	*5*	*0.1*	*0.1*	*0.05*	*1*	*0.5*
	0.01	*0.1*	*1*	*0.1*	*0.00000001*	*0.1*	*0.01*	*0.1*	*0.01*	*0.1*	*0.01*	*0.1*	*1*	*0.1*	*0.1*	*0.01*	*1*	*0.1*
AUX026138	51.5	7	3	131.6	99.2	0.6	1.37	8.4	2.16	0.4	0.73	1.7	218	1.8	48.3	4.77	133	171.6

APPENDIX 3 - Soil Assays

SAMPLEID	GRIDNAME	EAST	NORTH	Ag_ppb 1FMS	Al_pct 1FMS	As_ppm 1FMS	Au_ppb 1FMS	B_ppm 1FMS	Ba_ppm 1FMS	Be_ppm 1FMS	Bi_ppm 1FMS	Ca_pct 1FMS	Cd_ppm 1FMS	Ce_ppm 1FMS	Co_ppm 1FMS
AUA035007	WGS84-53	303912.2	7593501	8	1.063	1.7	-0.2	1	19.4	0.8	0.22	0.043	0.01	28.96	4.8
AUA035008	WGS84-53	304412.2	7593501	14	1.053	2.5	0.4	1	31.1	0.8	0.33	0.047	0.01	31.62	4.9
AUA035009	WGS84-53	304912.2	7593501	9	1.006	1.4	0.5	1	30.9	0.5	0.2	0.055	0.02	25.19	4.9
AUA035010	WGS84-53	305412.2	7593501	8	1.215	1.4	0.3	1	30.2	0.7	0.21	0.054	0.02	26.77	7.1
AUA035011	WGS84-53	301912.2	7594001	13	1.059	2.4	-0.2	2	23.9	0.7	0.24	0.057	0.01	26.41	5.2
AUA035012	WGS84-53	302412.2	7594001	9	0.85	1.5	0.9	1	50.6	0.7	0.24	0.097	0.04	26.94	6.3
AUA035015	WGS84-53	303912.2	7594001	8	0.962	1.9	0.4	2	24	0.6	0.21	0.12	0.01	20.7	4.2
AUA035016	WGS84-53	304412.2	7594001	10	0.789	1.9	0.5	2	39.2	0.5	0.21	0.084	0.02	27.34	6.5
AUA035017	WGS84-53	304912.2	7594001	9	1.299	1.6	0.8	2	39.5	0.6	0.21	0.082	0.02	31.1	6.7
AUA035018	WGS84-53	305412.2	7594001	12	1.112	1.4	-0.2	3	43.4	0.5	0.19	0.282	0.04	23.96	4.8
AUA035019	WGS84-53	301912.2	7594501	7	0.744	1.5	0.2	1	27.4	0.4	0.19	0.049	0.01	21.79	5.8
AUA035020	WGS84-53	302412.2	7594501	8	0.862	1.7	0.3	2	16.8	0.4	0.19	0.041	0.01	27.45	3.9
AUA035021	WGS84-53	302912.2	7594501	8	0.708	1.5	0.4	1	17.8	0.5	0.22	0.059	0.01	21.92	4.4
AUA035022	WGS84-53	303412.2	7594501	6	0.632	1.2	0.2	2	22.8	0.4	0.2	0.055	0.01	23.23	5.6
AUA035023	WGS84-53	303912.2	7594501	5	0.587	1.3	-0.2	1	20	0.4	0.21	0.024	-0.01	21.9	5.4
AUA035024	WGS84-53	304412.2	7594501	9	0.886	1.9	0.4	1	32.2	0.7	0.24	0.058	0.03	30.26	7.3
AUA035025	WGS84-53	304912.2	7594501	12	0.553	1.2	0.4	2	29.3	0.3	0.18	0.098	0.02	20.97	4.2
AUA035026	WGS84-53	305412.2	7594501	9	0.835	1.2	0.6	4	40.7	0.5	0.14	1.878	0.01	14.96	2.9
AUA035027	WGS84-53	301912.2	7595001	7	0.857	1.3	0.2	1	37.7	0.6	0.21	0.044	0.01	26	7.4
AUA035028	WGS84-53	302412.2	7595001	6	0.567	1.4	-0.2	1	50.2	0.3	0.18	0.074	0.03	25.27	5.2
AUA035029	WGS84-53	302912.2	7595001	3	0.495	0.7	-0.2	1	25.4	0.5	0.18	0.024	-0.01	15.88	4.6
AUA035031	WGS84-53	303412.2	7595001	10	0.956	2.2	-0.2	2	44	0.7	0.34	0.077	0.01	31.14	5.9
AUA035032	WGS84-53	303912.2	7595001	4	0.455	0.4	-0.2	1	13.1	0.4	0.17	0.025	0.01	21.8	4.2
AUA035034	WGS84-53	304412.2	7595001	5	0.462	1.3	0.5	1	13.1	0.3	0.19	0.024	0.01	22.35	3.7
AUA035035	WGS84-53	304912.2	7595001	4	0.606	1.1	0.3	2	14.4	0.4	0.19	0.026	0.01	21.89	4.3
AUA035036	WGS84-53	305412.2	7595001	2	0.256	0.5	0.5	1	20.4	0.3	0.16	0.024	0.01	17.25	1.9
AUA035037	WGS84-53	301912.2	7595501	7	0.821	1.3	0.5	1	22	0.5	0.2	0.036	0.01	22.93	2.7
AUA035038	WGS84-53	302412.2	7595501	8	0.66	1.6	-0.2	1	25.2	0.6	0.2	0.043	0.01	23.67	2.7
AUA035039	WGS84-53	302912.2	7595501	4	0.359	1.1	-0.2	1	22.7	0.3	0.24	0.032	0.01	13.5	2.3
AUA035040	WGS84-53	303412.2	7595501	6	0.985	3.2	0.3	1	368.2	0.4	0.35	0.049	0.02	18.3	13.6
AUA035041	WGS84-53	303912.2	7595501	5	0.404	1.4	0.5	1	14	0.2	0.2	0.044	0.02	17.27	2.8
AUA035042	WGS84-53	304412.2	7595501	6	0.455	1	0.6	2	15.5	0.3	0.17	0.03	0.01	20.81	3.6
AUA035043	WGS84-53	304912.2	7595501	2	0.292	0.3	-0.2	1	26.9	0.3	0.16	0.024	-0.01	25.39	2
AUA035044	WGS84-53	305412.2	7595501	11	0.707	1	-0.2	1	36.9	0.5	0.22	0.029	0.03	27.46	8.4
AUA035045	WGS84-53	301912.2	7596001	7	0.668	1	-0.2	1	27.8	0.8	0.18	0.035	0.02	60.73	7.3
AUA035046	WGS84-53	302412.2	7596001	4	0.501	1	0.6	1	16.3	0.3	0.28	0.071	0.01	25.82	3.3
AUA035047	WGS84-53	302912.2	7596001	5	0.474	0.7	0.2	1	14	0.3	0.17	0.035	0.01	13.56	1.7
AUA035048	WGS84-53	303412.2	7596001	4	0.409	1	0.2	1	18.6	0.3	0.18	0.029	0.01	15.58	3.9
AUA035049	WGS84-53	303912.2	7596001	5	0.767	1.3	-0.2	1	24.4	0.4	0.3	0.022	0.01	20.34	5.5
AUA035050	WGS84-53	304412.2	7596001	4	0.349	0.5	0.5	1	29.9	0.3	0.13	0.022	0.01	17.55	2
AUA035051	WGS84-53	304912.2	7596001	3	0.523	1.3	0.7	1	25.9	0.4	0.26	0.038	0.01	34.42	5.1

SAMPLEID	GRIDNAME	EAST	NORTH	Ag_ppb 1FMS	Al_pct 1FMS	As_ppm 1FMS	Au_ppb 1FMS	B_ppm 1FMS	Ba_ppm 1FMS	Be_ppm 1FMS	Bi_ppm 1FMS	Ca_pct 1FMS	Cd_ppm 1FMS	Ce_ppm 1FMS	Co_ppm 1FMS
AUA035052	WGS84-53	305412.2	7596001	3	0.455	0.7	-0.2	1	14.8	0.4	0.24	0.022	0.01	24.52	4.5
AUA035053	WGS84-53	285670.2	7602001	8	0.918	1.9	0.2	2	23.9	0.6	0.24	0.055	-0.01	28.17	5.1
AUA035054	WGS84-53	286170.2	7602001	14	0.781	2	-0.2	1	37.3	0.5	0.22	0.051	0.01	30.2	5.4
AUA035055	WGS84-53	286670.2	7602001	8	0.756	0.8	-0.2	-1	22.1	0.6	0.18	0.027	0.01	21.93	4.9
AUA035056	WGS84-53	287170.2	7602001	11	0.772	1.6	0.4	1	22.5	0.6	0.18	0.035	0.01	20.31	4.5
AUA035057	WGS84-53	287670.2	7602001	16	0.982	1.9	0.3	1	32.3	0.6	0.23	0.048	0.01	28.43	6.5
AUA035058	WGS84-53	288170.2	7602001	16	1.258	2.1	0.3	1	45.1	0.9	0.26	0.056	-0.01	33.5	8
AUA035059	WGS84-53	288670.2	7602001	6	0.726	1.9	0.5	-1	20.4	0.6	0.2	0.034	-0.01	23.14	5
AUA035061	WGS84-53	289170.2	7602001	9	1.127	1.4	0.6	1	29.2	0.6	0.2	0.027	0.01	25.84	6.1
AUA035062	WGS84-53	289670.2	7602001	8	0.613	1.1	-0.2	-1	21.8	0.4	0.19	0.025	0.01	18.67	3.5
AUA035063	WGS84-53	290170.2	7602001	12	1.052	1.7	0.6	1	33.9	0.5	0.23	0.053	0.01	28.68	5.4
AUA035064	WGS84-53	285670.2	7602501	5	0.623	0.9	-0.2	-1	26	0.4	0.2	0.031	0.01	25.03	4.1
AUA035065	WGS84-53	286170.2	7602501	13	0.961	1.6	-0.2	1	31.4	1	0.21	0.046	-0.01	30.13	6.6
AUA035067	WGS84-53	286670.2	7602501	6	0.786	1.6	0.3	1	36.3	0.6	0.2	0.032	0.01	24.16	5.6
AUA035068	WGS84-53	287170.2	7602501	10	0.986	1.7	-0.2	1	21.1	0.5	0.22	0.038	0.01	25.96	5.7
AUA035069	WGS84-53	287670.2	7602501	13	0.902	2	0.4	1	22.9	0.8	0.24	0.042	0.01	26.69	5.6
AUA035070	WGS84-53	288170.2	7602501	8	0.957	1.9	0.3	-1	31	0.7	0.25	0.038	0.02	27.49	6.2
AUA035071	WGS84-53	288670.2	7602501	8	0.649	1.6	0.5	1	22.2	0.4	0.19	0.032	-0.01	22.68	4.6
AUA035072	WGS84-53	289170.2	7602501	18	1.126	1.8	0.3	1	56.4	0.9	0.26	0.053	0.01	35.96	7.6
AUA035073	WGS84-53	289670.2	7602501	14	0.839	2	0.4	1	34.1	0.6	0.19	0.053	0.01	21.91	5
AUA035074	WGS84-53	290170.2	7602501	7	0.856	1.3	-0.2	-1	20.3	0.5	0.19	0.03	0.01	23.65	4.4
AUA035075	WGS84-53	285670.2	7603001	7	0.687	1.1	0.2	1	33	0.5	0.21	0.038	0.02	28.72	4.1
AUA035076	WGS84-53	286170.2	7603001	8	0.643	1.8	0.6	-1	26	0.7	0.24	0.041	0.01	29.17	3.7
AUA035077	WGS84-53	286670.2	7603001	7	0.789	1.7	0.2	1	25.7	0.5	0.19	0.041	0.01	23.58	4.9
AUA035078	WGS84-53	287170.2	7603001	9	0.635	1.6	0.3	1	20.5	0.4	0.19	0.034	0.01	20.88	5.1
AUA035079	WGS84-53	287670.2	7603001	16	0.989	2.1	0.7	-1	27.3	0.7	0.23	0.049	-0.01	28.12	6.6
AUA035080	WGS84-53	288170.2	7603001	9	0.91	1.6	0.6	1	21	0.6	0.21	0.023	0.01	25	4.7
AUA035081	WGS84-53	288670.2	7603001	5	0.532	1	0.2	-1	18.3	0.6	0.17	0.03	-0.01	17.88	3.1
AUA035082	WGS84-53	289170.2	7603001	16	1.042	2.5	0.2	2	54.3	0.6	0.23	0.052	0.01	26.55	7.2
AUA035083	WGS84-53	289670.2	7603001	10	0.882	2.1	1	1	24.6	0.3	0.23	0.038	-0.01	24.18	5
AUA035084	WGS84-53	290170.2	7603001	8	0.94	1.6	0.5	1	28.2	0.5	0.24	0.038	0.01	24.81	6.3
AUA035085	WGS84-53	285670.2	7603501	8	0.745	1.6	0.3	-1	34.3	0.7	0.25	0.051	0.03	34.28	5.4
AUA035086	WGS84-53	286170.2	7603501	7	0.745	1.1	0.5	1	33.6	0.6	0.21	0.057	0.02	31.49	4.9
AUA035087	WGS84-53	286670.2	7603501	7	0.653	1.3	-0.2	1	24.1	0.5	0.2	0.037	0.01	26.42	4.5
AUA035088	WGS84-53	287170.2	7603501	9	0.798	2.1	0.6	-1	26.1	0.5	0.24	0.047	-0.01	25.21	5.2
AUA035089	WGS84-53	287670.2	7603501	8	0.894	1.5	-0.2	-1	18.9	0.5	0.22	0.032	0.01	27.91	6.3
AUA035091	WGS84-53	288170.2	7603501	17	1.132	1.8	0.9	1	50.2	0.7	0.24	0.059	0.02	31.22	5.5
AUA035092	WGS84-53	288670.2	7603501	12	0.944	1.8	0.3	1	46.1	0.7	0.23	0.048	0.01	28.52	6
AUA035093	WGS84-53	289170.2	7603501	11	0.873	1.6	0.3	1	31.9	0.6	0.21	0.036	0.02	29.14	6.9
AUA035094	WGS84-53	289670.2	7603501	9	0.961	1.4	-0.2	1	23.6	0.7	0.2	0.035	0.01	24.06	5.4
AUA035095	WGS84-53	290170.2	7603501	10	0.869	1.8	1.7	1	28.3	0.5	0.22	0.044	0.02	25.16	5.7

SAMPLEID	GRIDNAME	EAST	NORTH	Ag_ppb 1FMS	Al_pct 1FMS	As_ppm 1FMS	Au_ppb 1FMS	B_ppm 1FMS	Ba_ppm 1FMS	Be_ppm 1FMS	Bi_ppm 1FMS	Ca_pct 1FMS	Cd_ppm 1FMS	Ce_ppm 1FMS	Co_ppm 1FMS
AUA035096	WGS84-53	285670.2	7604001	8	0.583	1.3	0.5	1	34.4	0.5	0.2	0.046	0.02	28.21	4.8
AUA035097	WGS84-53	286170.2	7604001	10	0.711	1.2	0.3	2	33.8	0.7	0.2	0.04	0.02	27.9	4.3
AUA035098	WGS84-53	286670.2	7604001	8	0.495	1.3	0.5	1	37	0.5	0.2	0.048	0.01	28.07	4.2
AUA035100	WGS84-53	287170.2	7604001	6	0.527	1.1	0.5	-1	20.8	0.3	0.22	0.032	0.01	22.83	3.8
AUA035101	WGS84-53	287670.2	7604001	10	0.982	1.9	0.4	2	31	0.7	0.23	0.037	0.01	28.9	6.5
AUA035102	WGS84-53	288170.2	7604001	10	0.723	1.5	-0.2	-1	23.1	0.5	0.2	0.033	-0.01	19.86	4.7
AUA035103	WGS84-53	288670.2	7604001	6	0.54	1	-0.2	-1	15.9	0.5	0.17	0.035	-0.01	17.98	3.5
AUA035104	WGS84-53	289170.2	7604001	6	0.611	1	-0.2	-1	15.9	0.5	0.18	0.03	0.01	17.37	3.4
AUA035105	WGS84-53	289670.2	7604001	6	0.89	1.3	0.4	1	24.8	0.8	0.22	0.04	0.01	23.86	4.9
AUA035106	WGS84-53	290170.2	7604001	8	0.827	1.8	0.7	-1	32.2	0.7	0.23	0.037	0.02	29.37	6.5
AUA035107	WGS84-53	285670.2	7604501	5	0.526	1	-0.2	-1	20.2	0.5	0.19	0.034	0.01	20.84	2.7
AUA035108	WGS84-53	286170.2	7604501	9	0.704	1.1	-0.2	1	41.7	0.4	0.2	0.064	0.02	30.64	5.5
AUA035109	WGS84-53	286670.2	7604501	6	0.652	0.8	0.2	-1	36.1	0.6	0.21	0.054	0.02	31.47	4.1
AUA035110	WGS84-53	287170.2	7604501	8	0.667	1.6	-0.2	1	40	0.6	0.24	0.055	0.02	39.3	6
AUA035111	WGS84-53	287670.2	7604501	11	0.89	1.5	0.4	1	36.5	0.8	0.24	0.05	0.01	29.07	5.8
AUA035112	WGS84-53	288170.2	7604501	10	0.818	1.8	-0.2	-1	25.2	0.5	0.2	0.043	0.01	26.78	5.5
AUA035113	WGS84-53	288670.2	7604501	7	0.618	1.2	0.6	-1	23.4	0.7	0.19	0.036	0.02	24.64	5.5
AUA035114	WGS84-53	289170.2	7604501	4	0.556	1	-0.2	1	18	0.6	0.17	0.036	0.01	18.93	2.9
AUA035115	WGS84-53	289670.2	7604501	8	0.939	1.5	0.4	1	26.9	0.5	0.23	0.033	0.01	27.48	7.3
AUA035116	WGS84-53	290170.2	7604501	7	0.871	1.3	0.4	1	23.4	0.5	0.22	0.028	0.01	21.18	5.8
AUA035117	WGS84-53	285670.2	7605001	6	0.671	1.1	-0.2	-1	31.5	0.5	0.21	0.049	0.02	27.77	4.2
AUA035118	WGS84-53	286170.2	7605001	7	0.782	1.4	0.2	1	33.4	0.7	0.26	0.056	0.01	35.33	6
AUA035119	WGS84-53	286670.2	7605001	7	0.596	1.2	-0.2	1	28.7	0.3	0.23	0.06	0.01	28.16	4.2
AUA035120	WGS84-53	287170.2	7605001	9	0.709	1.2	0.5	1	28.1	0.6	0.24	0.04	0.02	27.23	4.6
AUA035121	WGS84-53	287670.2	7605001	14	0.8	1.9	0.2	1	36.8	0.8	0.24	0.049	0.01	33.04	5.8
AUA035122	WGS84-53	288170.2	7605001	7	0.778	1.5	0.2	-1	31	0.6	0.22	0.032	0.01	22.5	5.3
AUA035123	WGS84-53	288670.2	7605001	3	0.672	1.5	0.2	-1	21.5	0.5	0.2	0.032	-0.01	19.29	4
AUA035124	WGS84-53	289170.2	7605001	7	0.664	1.8	0.6	1	22	0.4	0.19	0.026	0.01	23.24	5.4
AUA035125	WGS84-53	289670.2	7605001	5	0.761	1.1	0.3	1	31.1	0.5	0.17	0.037	0.02	21.79	5.1
AUA035126	WGS84-53	290170.2	7605001	8	0.977	1.4	0.6	1	28.5	0.7	0.21	0.039	0.01	22.89	6.5
AUA035339	WGS84-53	275160.6	7634501	8	0.752	1.5	0.2	2	49.9	0.9	0.24	0.085	0.02	27.68	5.2
AUA035353	WGS84-53	275160.6	7635001	8	1.069	2	0.7	2	50.1	0.6	0.29	0.082	0.03	35.58	6.7
AUA035369	WGS84-53	275160.6	7635501	6	0.847	3	0.4	1	37	0.9	0.26	0.071	0.02	37.38	6.2

SAMPLEID	Cr_ppm 1FMS	Cs_ppm 1FMS	Cu_ppm 1FMS	Dy_ppm 1FMS	Er_ppm 1FMS	Eu_ppm 1FMS	Fe_pct 1FMS	Ga_ppm 1FMS	Gd_ppm 1FMS	Ge_ppm 1FMS	Hf_ppm 1FMS	Hg_ppb 1FMS	Ho_ppm 1FMS	In_ppm 1FMS	K_pct 1FMS
AUA035007	36.3	1.16	14.14	0	0	0	2.528	5.1	0	0.1	0.03	7	0	0.03	0.136
AUA035008	32.9	1.1	15.43	0	0	0	2.719	5.7	0	-0.1	0.02	11	0	0.04	0.131
AUA035009	27.4	0.98	11.44	0	0	0	2.057	3.9	0	-0.1	0.02	14	0	0.02	0.133
AUA035010	34.5	1.1	12.31	0	0	0	2.455	4.3	0	-0.1	0.05	12	0	0.03	0.168
AUA035011	34.8	1.1	14.17	0	0	0	2.757	5.2	0	0.1	0.02	7	0	0.04	0.139
AUA035012	28.9	1.04	11.08	0	0	0	2.019	4.3	0	-0.1	-0.02	22	0	0.03	0.108
AUA035015	37.6	0.99	10.29	0	0	0	2.159	4.5	0	-0.1	0.05	5	0	0.02	0.149
AUA035016	34.2	1.01	14.71	0	0	0	2.319	4.1	0	0.1	0.04	9	0	0.03	0.162
AUA035017	32.8	1.28	13.84	0	0	0	2.39	5	0	-0.1	0.03	15	0	0.03	0.196
AUA035018	32.5	1.15	10.04	0	0	0	1.764	4	0	0.1	0.12	12	0	0.02	0.28
AUA035019	29	0.84	6.7	0	0	0	1.82	4.1	0	-0.1	0.05	11	0	0.03	0.08
AUA035020	30.3	0.86	12.94	0	0	0	2.302	4.7	0	0.1	0.02	7	0	0.02	0.138
AUA035021	36.1	0.8	10.49	0	0	0	1.931	3.7	0	-0.1	-0.02	8	0	0.02	0.099
AUA035022	43.6	0.71	9.91	0	0	0	1.977	3.3	0	-0.1	-0.02	10	0	0.02	0.113
AUA035023	255.1	0.65	9.38	0	0	0	2.609	5.1	0	0.1	0.04	9	0	0.02	0.077
AUA035024	35.2	1.08	17.33	0	0	0	2.149	4.1	0	0.1	0.02	15	0	0.02	0.142
AUA035025	26.5	0.67	11.27	0	0	0	1.619	3.3	0	0.1	0.06	5	0	0.02	0.173
AUA035026	26.4	0.81	6.86	0	0	0	1.355	3	0	0.1	0.04	8	0	0.02	0.209
AUA035027	29.8	0.85	9.68	0	0	0	2.179	4.3	0	0.1	-0.02	10	0	0.02	0.099
AUA035028	34.8	0.74	11.76	0	0	0	1.905	3.7	0	-0.1	0.05	10	0	0.02	0.108
AUA035029	36.1	0.56	4.95	0	0	0	1.794	3.2	0	-0.1	0.05	7	0	0.02	0.055
AUA035031	46.5	0.85	12.25	0	0	0	2.466	4.7	0	0.1	-0.02	13	0	0.03	0.128
AUA035032	33.4	0.52	8.24	0	0	0	1.732	2.5	0	-0.1	0.05	10	0	-0.02	0.082
AUA035034	25.5	0.53	10.77	0	0	0	1.553	2.4	0	-0.1	0.04	5	0	0.02	0.108
AUA035035	27.3	0.66	8.92	0	0	0	1.583	2.6	0	-0.1	0.02	6	0	0.02	0.127
AUA035036	27.2	0.39	5.24	0	0	0	1.261	1.6	0	-0.1	0.07	-5	0	-0.02	0.047
AUA035037	34.8	0.85	11.2	0	0	0	2.783	5.5	0	-0.1	0.02	6	0	0.03	0.094
AUA035038	67.9	0.74	10.43	0	0	0	2.424	4.2	0	0.1	-0.02	7	0	0.02	0.086
AUA035039	41.2	0.4	5.05	0	0	0	2.932	4.5	0	-0.1	0.03	6	0	0.03	0.053
AUA035040	29.7	0.76	10.32	0	0	0	2.454	5.4	0	0.1	0.07	7	0	0.02	0.102
AUA035041	36.6	0.55	8.21	0	0	0	1.974	3	0	-0.1	0.07	5	0	0.02	0.069
AUA035042	29.7	0.6	11.64	0	0	0	1.624	2.4	0	-0.1	-0.02	5	0	-0.02	0.091
AUA035043	27.4	0.43	5.9	0	0	0	1.313	2	0	0.1	0.1	-5	0	-0.02	0.045
AUA035044	43	0.97	11.41	0	0	0	1.337	3	0	-0.1	0.04	17	0	0.02	0.131
AUA035045	32.5	1.29	16.41	0	0	0	1.946	4.1	0	0.1	0.02	16	0	-0.02	0.164
AUA035046	31.9	1.9	10.79	0	0	0	1.81	3	0	0.1	0.02	-5	0	-0.02	0.099
AUA035047	29	0.57	6.73	0	0	0	2.266	3.7	0	0.1	0.02	5	0	0.02	0.056
AUA035048	40.3	0.46	7.32	0	0	0	2.245	2.5	0	-0.1	0.08	9	0	-0.02	0.066
AUA035049	24	0.86	7.68	0	0	0	2.224	4.2	0	-0.1	0.05	5	0	0.03	0.062
AUA035050	24.8	0.46	5.72	0	0	0	1.325	2.1	0	-0.1	0.1	-5	0	-0.02	0.059
AUA035051	32	0.81	12.94	0	0	0	1.575	2.6	0	-0.1	0.1	-5	0	0.02	0.073

SAMPLEID	Cr_ppm 1FMS	Cs_ppm 1FMS	Cu_ppm 1FMS	Dy_ppm 1FMS	Er_ppm 1FMS	Eu_ppm 1FMS	Fe_pct 1FMS	Ga_ppm 1FMS	Gd_ppm 1FMS	Ge_ppm 1FMS	Hf_ppm 1FMS	Hg_ppb 1FMS	Ho_ppm 1FMS	In_ppm 1FMS	K_pct 1FMS
AUA035052	23.9	0.71	8.77	0	0	0	1.236	1.8	0	0.1	0.02	-5	0	-0.02	0.116
AUA035053	24.2	1.99	8.53	0	0	0	1.635	3.4	0	-0.1	0.05	11	0	0.02	0.18
AUA035054	22.7	1.58	10.51	0	0	0	1.769	3.6	0	-0.1	0.02	18	0	0.02	0.144
AUA035055	22.9	1.12	8.42	0	0	0	1.535	3.4	0	-0.1	0.05	16	0	-0.02	0.088
AUA035056	22.9	1.12	8.12	0	0	0	1.537	3	0	0.1	-0.02	6	0	0.02	0.099
AUA035057	25.7	1.64	11.24	0	0	0	1.95	4.1	0	0.1	0.03	14	0	0.03	0.15
AUA035058	30	1.89	12.55	0	0	0	2.253	5	0	-0.1	0.06	10	0	0.03	0.18
AUA035059	21.9	1.17	7.67	0	0	0	1.63	3.3	0	-0.1	0.06	8	0	0.02	0.091
AUA035061	22.1	1.52	9.85	0	0	0	1.896	4.4	0	-0.1	0.09	6	0	0.03	0.103
AUA035062	19.7	1	6.18	0	0	0	1.287	2.4	0	-0.1	-0.02	-5	0	0.02	0.082
AUA035063	21.3	1.64	9.5	0	0	0	1.639	4.1	0	-0.1	0.04	11	0	0.02	0.14
AUA035064	18	1.42	6.62	0	0	0	1.237	2.4	0	0.1	0.02	7	0	0.02	0.114
AUA035065	23.9	1.55	10.41	0	0	0	1.794	3.9	0	0.1	-0.02	11	0	0.02	0.142
AUA035067	23.6	1.18	8.28	0	0	0	1.658	3.3	0	0.1	0.03	9	0	0.02	0.1
AUA035068	26.9	1.53	9.97	0	0	0	1.845	4.4	0	-0.1	0.07	15	0	0.02	0.119
AUA035069	23.4	1.58	10.6	0	0	0	1.848	4	0	0.1	0.03	11	0	0.02	0.13
AUA035070	24.3	1.6	9.68	0	0	0	1.873	3.8	0	-0.1	0.06	14	0	0.02	0.137
AUA035071	22	1.01	6.6	0	0	0	1.433	2.8	0	-0.1	0.04	8	0	0.02	0.087
AUA035072	26.8	1.9	12.67	0	0	0	2.046	4.6	0	0.1	0.03	14	0	0.03	0.159
AUA035073	25	1.23	10.04	0	0	0	1.687	3.4	0	0.1	0.03	17	0	0.02	0.115
AUA035074	21.7	1.38	7.98	0	0	0	1.62	3.3	0	-0.1	0.07	9	0	-0.02	0.107
AUA035075	18.3	1.44	6.9	0	0	0	1.174	3	0	0.1	-0.02	5	0	0.02	0.11
AUA035076	18	1.76	7.85	0	0	0	1.365	3	0	0.1	-0.02	9	0	0.02	0.118
AUA035077	24.3	1.12	8.5	0	0	0	1.677	3.5	0	-0.1	0.03	12	0	0.02	0.097
AUA035078	21.7	1.16	8.76	0	0	0	1.682	3.3	0	0.1	0.03	10	0	0.02	0.1
AUA035079	25.5	1.66	12.19	0	0	0	2.161	4.7	0	0.1	0.05	8	0	0.03	0.154
AUA035080	20.8	1.42	7.77	0	0	0	1.537	3.7	0	-0.1	0.09	7	0	0.02	0.098
AUA035081	19.1	0.78	4.67	0	0	0	1.222	2.1	0	-0.1	0.04	10	0	0.02	0.069
AUA035082	25.2	1.61	11.99	0	0	0	1.995	4.4	0	0.1	0.06	14	0	0.03	0.148
AUA035083	23.6	1.4	8.99	0	0	0	1.673	4	0	-0.1	0.02	13	0	0.02	0.1
AUA035084	26	1.49	9.82	0	0	0	1.859	4.1	0	-0.1	0.05	11	0	0.02	0.119
AUA035085	19.1	1.8	8.46	0	0	0	1.433	3.5	0	-0.1	0.02	8	0	0.02	0.142
AUA035086	22.1	1.48	8.65	0	0	0	1.28	3	0	0.1	0.02	11	0	-0.02	0.133
AUA035087	20.7	1.43	7.73	0	0	0	1.279	2.7	0	0.1	0.03	11	0	-0.02	0.122
AUA035088	22.7	1.23	8.96	0	0	0	1.735	3.8	0	0.1	-0.02	-5	0	0.02	0.107
AUA035089	24.2	1.44	9.95	0	0	0	1.908	4	0	-0.1	0.06	18	0	0.02	0.113
AUA035091	23.1	1.68	11.1	0	0	0	1.863	4.3	0	-0.1	-0.02	14	0	0.02	0.137
AUA035092	26.6	1.55	10.64	0	0	0	1.923	3.8	0	0.1	0.04	10	0	0.02	0.136
AUA035093	24.2	1.31	10.15	0	0	0	1.859	3.5	0	-0.1	0.02	6	0	0.02	0.117
AUA035094	24.4	1.34	9.5	0	0	0	1.742	3.9	0	0.1	0.07	15	0	0.02	0.112
AUA035095	25.6	1.34	10.56	0	0	0	1.794	4	0	-0.1	0.04	12	0	0.02	0.118

SAMPLEID	Cr_ppm 1FMS	Cs_ppm 1FMS	Cu_ppm 1FMS	Dy_ppm 1FMS	Er_ppm 1FMS	Eu_ppm 1FMS	Fe_pct 1FMS	Ga_ppm 1FMS	Gd_ppm 1FMS	Ge_ppm 1FMS	Hf_ppm 1FMS	Hg_ppb 1FMS	Ho_ppm 1FMS	In_ppm 1FMS	K_pct 1FMS
AUA035096	17.7	1.4	8.37	0	0	0	1.29	2.8	0	-0.1	-0.02	10	0	-0.02	0.13
AUA035097	17.9	1.42	8.69	0	0	0	1.24	3	0	-0.1	-0.02	13	0	0.02	0.112
AUA035098	16.9	1.42	8.15	0	0	0	1.25	2.4	0	-0.1	-0.02	10	0	-0.02	0.115
AUA035100	22.5	1.16	6.88	0	0	0	1.193	2.5	0	-0.1	-0.02	7	0	0.02	0.097
AUA035101	26.3	1.62	10.28	0	0	0	2.114	4.2	0	-0.1	0.06	7	0	0.03	0.143
AUA035102	23.2	1.05	7.89	0	0	0	1.472	3.2	0	0.1	0.05	12	0	0.02	0.089
AUA035103	20.4	0.82	5.34	0	0	0	1.241	2.4	0	-0.1	0.03	11	0	-0.02	0.074
AUA035104	22.5	0.85	5.96	0	0	0	1.244	2.5	0	-0.1	0.03	9	0	-0.02	0.078
AUA035105	26	1.29	8.51	0	0	0	1.689	3.5	0	-0.1	0.08	11	0	0.02	0.134
AUA035106	24	1.41	8.92	0	0	0	1.929	3.6	0	-0.1	0.05	7	0	0.03	0.128
AUA035107	16.5	1.28	5.93	0	0	0	1.046	2.3	0	-0.1	-0.02	-5	0	-0.02	0.101
AUA035108	20	1.37	9.95	0	0	0	1.386	3.1	0	0.1	0.05	-5	0	0.02	0.117
AUA035109	18.7	1.38	7.95	0	0	0	1.265	2.9	0	-0.1	0.03	6	0	-0.02	0.126
AUA035110	20.5	1.63	8.97	0	0	0	1.538	2.9	0	-0.1	-0.02	13	0	0.02	0.177
AUA035111	24.5	1.44	10.21	0	0	0	1.835	3.4	0	-0.1	-0.02	6	0	0.02	0.142
AUA035112	22.8	1.27	10	0	0	0	1.875	3.7	0	-0.1	0.05	8	0	0.02	0.107
AUA035113	21.2	1.09	6.81	0	0	0	1.511	2.8	0	-0.1	0.02	8	0	0.02	0.108
AUA035114	21.1	0.82	5.49	0	0	0	1.246	2.6	0	-0.1	0.04	10	0	-0.02	0.072
AUA035115	27.3	1.39	10.23	0	0	0	1.975	4.4	0	-0.1	0.04	13	0	0.03	0.121
AUA035116	24.9	1.2	7.92	0	0	0	1.716	3.7	0	-0.1	0.07	11	0	0.03	0.107
AUA035117	17.6	1.42	7.46	0	0	0	1.262	2.6	0	-0.1	0.02	6	0	0.02	0.113
AUA035118	21.8	2.05	10.41	0	0	0	1.515	3.3	0	-0.1	0.02	16	0	-0.02	0.167
AUA035119	19.6	1.4	7.79	0	0	0	1.238	2.7	0	0.1	-0.02	12	0	-0.02	0.133
AUA035120	21.5	1.43	8.61	0	0	0	1.404	3.1	0	0.1	-0.02	10	0	-0.02	0.121
AUA035121	24.6	1.44	10.23	0	0	0	1.977	3.6	0	-0.1	-0.02	12	0	0.03	0.152
AUA035122	23.2	1.17	8.84	0	0	0	1.712	3.3	0	-0.1	0.04	14	0	0.02	0.099
AUA035123	23.8	1.08	5.69	0	0	0	1.38	2.8	0	-0.1	0.07	13	0	-0.02	0.083
AUA035124	22.3	1.11	6.9	0	0	0	1.637	3.2	0	-0.1	0.08	13	0	0.02	0.083
AUA035125	24.2	1.08	7.6	0	0	0	1.647	3.2	0	-0.1	0.05	12	0	0.02	0.108
AUA035126	26.9	1.2	9.31	0	0	0	2.016	3.8	0	-0.1	0.09	10	0	0.02	0.113
AUA035339	27.2	1.15	9.92	0	0	0	1.571	2.8	0	-0.1	0.04	8	0	-0.02	0.16
AUA035353	29.4	1.64	13.6	0	0	0	2.039	4.4	0	-0.1	0.03	13	0	0.02	0.194
AUA035369	25.7	1.71	11.01	0	0	0	1.816	3.3	0	-0.1	-0.02	11	0	0.02	0.193

SAMPLEID	La_ppm 1FMS	Li_ppm 1FMS	Lu_ppm 1FMS	Mg_pct 1FMS	Mn_ppm 1FMS	Mo_ppm 1FMS	Na_pct 1FMS	Nb_ppm 1FMS	Nd_ppm 1FMS	Ni_ppm 1FMS	P_pct 1FMS	Pb_ppm 1FMS	Pd_ppb 1FMS	Pr_ppm 1FMS	Pt_ppb 1FMS
AUA035007	12.9	3.3	0	0.09	144	0.51	0.001	0.33	0	6.5	0.017	7.76	-10	0	-2
AUA035008	15	4.3	0	0.08	142	0.6	0.001	0.27	0	8.1	0.022	9.98	-10	0	-2
AUA035009	12.1	4.4	0	0.08	286	0.37	0.001	0.19	0	7	0.014	7.05	-10	0	-2
AUA035010	14.6	4.6	0	0.13	411	0.42	0.001	0.1	0	7.3	0.013	7.69	-10	0	-2
AUA035011	13.4	3.9	0	0.09	170	0.54	0.003	0.28	0	6.8	0.019	8.48	-10	0	-2
AUA035012	13.5	5	0	0.08	338	0.43	0.001	0.34	0	7.6	0.016	8.28	-10	0	-2
AUA035015	10.2	4.7	0	0.11	146	0.38	0.002	0.23	0	7	0.011	7.5	-10	0	-2
AUA035016	14	3.8	0	0.11	295	0.46	0.002	0.22	0	8	0.015	8.21	-10	0	-2
AUA035017	15	6.3	0	0.17	359	0.41	0.002	0.2	0	8.9	0.013	8.8	-10	0	-2
AUA035018	13.5	4	0	0.26	193	0.16	0.008	0.18	0	7.8	0.011	6.97	-10	0	-2
AUA035019	9.8	4	0	0.06	217	0.44	0.001	0.28	0	5	0.011	7.17	-10	0	-2
AUA035020	14.3	3.1	0	0.09	126	0.47	0.002	0.26	0	5.8	0.017	7.53	-10	0	-2
AUA035021	10.9	3.7	0	0.06	176	0.51	0.001	0.2	0	5.5	0.014	7.34	-10	0	-2
AUA035022	12.5	2.8	0	0.07	252	0.41	0.001	0.24	0	5.4	0.012	6.89	-10	0	-2
AUA035023	11.5	2.5	0	0.06	331	0.47	0.001	0.19	0	6.4	0.011	8.05	-10	0	-2
AUA035024	15.5	3.7	0	0.1	396	0.52	0.001	0.18	0	7.8	0.015	12.52	-10	0	-2
AUA035025	11.4	3	0	0.1	166	0.21	0.002	0.25	0	5.6	0.012	6.74	-10	0	-2
AUA035026	9	3.6	0	0.44	103	0.11	0.002	0.2	0	4.5	0.01	4.87	-10	0	-2
AUA035027	13.7	3.9	0	0.08	336	0.43	0.001	0.21	0	6	0.013	7.2	-10	0	-2
AUA035028	13.6	2.5	0	0.09	279	0.3	0.001	0.28	0	6.4	0.013	8.41	-10	0	-2
AUA035029	8.9	3.8	0	0.04	227	0.27	0.001	0.19	0	3.4	0.007	5.35	-10	0	-2
AUA035031	17.7	3.7	0	0.09	272	0.48	0.001	0.16	0	7.8	0.014	6.94	-10	0	-2
AUA035032	10	2	0	0.06	226	0.23	0.006	0.17	0	4	0.012	5.6	-10	0	-2
AUA035034	10.9	2.2	0	0.07	166	0.27	0.005	0.17	0	4.6	0.016	6.51	-10	0	-2
AUA035035	11.4	2.6	0	0.08	193	0.39	0.004	0.15	0	4.2	0.02	6.02	-10	0	-2
AUA035036	10.3	1	0	0.05	75	0.16	0.002	0.11	0	2.8	0.008	3.82	-10	0	-2
AUA035037	11	2.3	0	0.08	110	0.42	0.002	0.28	0	4.8	0.015	9.36	-10	0	-2
AUA035038	13.1	2.1	0	0.07	113	0.33	0.003	0.28	0	8.2	0.015	9.22	-10	0	-2
AUA035039	7.6	1.4	0	0.06	66	0.31	0.01	0.21	0	2.9	0.009	5.42	-10	0	-2
AUA035040	7	2.2	0	0.11	1980	0.46	0.003	0.05	0	4.1	0.016	7.33	-10	0	-2
AUA035041	8.8	1.6	0	0.09	96	0.31	0.034	0.25	0	4	0.015	7	-10	0	-2
AUA035042	12.7	1.5	0	0.07	121	0.22	0.003	0.16	0	4.9	0.014	5	-10	0	-2
AUA035043	13	1.1	0	0.06	81	0.14	0.002	0.13	0	3.2	0.008	4.37	-10	0	-2
AUA035044	17	4.7	0	0.22	195	0.17	0.003	0.12	0	33.3	0.012	5.08	-10	0	-2
AUA035045	29	2.7	0	0.1	210	0.29	0.005	0.32	0	8.8	0.018	9.99	-10	0	-2
AUA035046	12.6	2.4	0	0.11	97	0.25	0.058	0.21	0	5.5	0.015	6.94	-10	0	-2
AUA035047	6.8	1.3	0	0.05	75	0.26	0.003	0.24	0	2.7	0.011	4.7	-10	0	-2
AUA035048	8	1.2	0	0.06	213	0.24	0.016	0.18	0	3.2	0.011	6.53	-10	0	-2
AUA035049	10.4	3.5	0	0.05	334	0.53	0.001	0.19	0	4.5	0.014	6.47	-10	0	-2
AUA035050	9.1	1.8	0	0.06	87	0.13	0.037	0.18	0	3.4	0.012	3.77	-10	0	-2
AUA035051	16	2.3	0	0.11	149	0.23	0.081	0.17	0	8.2	0.016	8.14	-10	0	-2

SAMPLEID	La_ppm 1FMS	Li_ppm 1FMS	Lu_ppm 1FMS	Mg_pct 1FMS	Mn_ppm 1FMS	Mo_ppm 1FMS	Na_pct 1FMS	Nb_ppm 1FMS	Nd_ppm 1FMS	Ni_ppm 1FMS	P_pct 1FMS	Pb_ppm 1FMS	Pd_ppb 1FMS	Pr_ppm 1FMS	Pt_ppb 1FMS
AUA035052	14.2	3.5	0	0.11	78	0.14	0.009	0.14	0	5.9	0.012	4.23	-10	0	-2
AUA035053	16.5	6.9	0	0.11	180	0.39	0.002	0.27	0	5.3	0.009	7.01	-10	0	-2
AUA035054	16.5	5	0	0.09	313	0.41	0.002	0.3	0	5.7	0.016	8.04	-10	0	-2
AUA035055	11.3	3.9	0	0.07	323	0.31	0.001	0.23	0	4.5	0.01	5.9	-10	0	-2
AUA035056	12	4.3	0	0.07	321	0.36	0.001	0.19	0	4.8	0.011	5.74	-10	0	-2
AUA035057	16	5.5	0	0.1	399	0.5	0.001	0.26	0	6.2	0.013	7.67	-10	0	-2
AUA035058	16.1	7	0	0.11	409	0.52	0.002	0.23	0	7.6	0.013	8.26	-10	0	-2
AUA035059	11.1	4.4	0	0.07	268	0.36	0.001	0.2	0	4.6	0.009	6.96	-10	0	-2
AUA035061	11.9	6	0	0.08	380	0.41	0.001	0.26	0	5.5	0.01	7.07	-10	0	-2
AUA035062	10	3.1	0	0.05	210	0.28	0.001	0.21	0	3.4	0.011	5.3	-10	0	-2
AUA035063	15.3	6.2	0	0.1	289	0.4	0.001	0.27	0	5.9	0.015	7.69	-10	0	-2
AUA035064	14.1	5.5	0	0.07	230	0.24	0.001	0.32	0	4	0.01	6.11	-10	0	-2
AUA035065	15.4	5.7	0	0.09	381	0.45	0.001	0.29	0	6.2	0.013	7.72	-10	0	-2
AUA035067	13.6	4.8	0	0.06	327	0.35	0.001	0.26	0	4.9	0.011	6.54	-10	0	-2
AUA035068	13.7	5.3	0	0.09	354	0.41	0.001	0.28	0	5.6	0.013	6.87	-10	0	-2
AUA035069	14.1	4.6	0	0.09	247	0.5	0.001	0.25	0	5.6	0.014	7.89	-10	0	-2
AUA035070	14.6	5.4	0	0.09	421	0.42	0.001	0.2	0	5.4	0.01	7.36	-10	0	2
AUA035071	12.4	3.7	0	0.06	256	0.31	0.001	0.19	0	3.8	0.009	6.01	-10	0	-2
AUA035072	18	5.5	0	0.11	404	0.48	0.002	0.24	0	7	0.015	8.45	-10	0	-2
AUA035073	12.5	5	0	0.08	299	0.4	0.001	0.21	0	5.4	0.012	6.66	-10	0	-2
AUA035074	11.5	4.3	0	0.08	290	0.32	0.001	0.22	0	4.6	0.011	6.22	-10	0	-2
AUA035075	15.6	4.7	0	0.08	257	0.3	0.001	0.34	0	4.9	0.015	6.99	-10	0	-2
AUA035076	15.7	5.3	0	0.08	195	0.3	0.001	0.33	0	5	0.011	7.35	-10	0	-2
AUA035077	11.9	4.3	0	0.07	291	0.31	0.001	0.28	0	4.8	0.011	6.21	-10	0	-2
AUA035078	11.2	3.5	0	0.06	318	0.37	0.001	0.26	0	4.3	0.008	6.01	-10	0	-2
AUA035079	15.7	5.4	0	0.09	377	0.6	0.002	0.27	0	6.2	0.011	7.67	-10	0	-2
AUA035080	11.9	4.6	0	0.07	307	0.37	0.001	0.18	0	4.6	0.011	6.72	-10	0	-2
AUA035081	10.3	3.1	0	0.04	168	0.23	0.001	0.19	0	2.8	0.008	4.69	-10	0	-2
AUA035082	14.4	6.5	0	0.11	333	0.49	0.002	0.23	0	6.8	0.012	8.19	-10	0	-2
AUA035083	12	4.7	0	0.08	284	0.43	0.001	0.26	0	5.5	0.012	7.21	-10	0	-2
AUA035084	13.2	6.1	0	0.08	376	0.43	0.001	0.28	0	5.7	0.01	8	-10	0	-2
AUA035085	18	6	0	0.1	287	0.42	0.002	0.32	0	5.7	0.016	8.68	-10	0	-2
AUA035086	16.4	5	0	0.09	253	0.36	0.001	0.35	0	5.1	0.013	7.07	-10	0	-2
AUA035087	14.3	5.5	0	0.08	216	0.3	0.001	0.28	0	4.3	0.009	6.37	-10	0	-2
AUA035088	13.5	5.1	0	0.07	260	0.36	0.001	0.23	0	4.9	0.012	7.44	-10	0	-2
AUA035089	12.8	3.6	0	0.07	333	0.48	0.001	0.28	0	5.4	0.011	7.35	-10	0	-2
AUA035091	15.8	6.2	0	0.1	342	0.44	0.002	0.41	0	6.6	0.016	7.56	-10	0	-2
AUA035092	16	6.5	0	0.1	357	0.43	0.001	0.25	0	5.9	0.01	7.44	-10	0	-2
AUA035093	16	4.5	0	0.09	425	0.49	0.001	0.27	0	5.2	0.014	7.89	-10	0	-2
AUA035094	11.2	4.3	0	0.08	288	0.34	0.001	0.25	0	5.2	0.01	6.66	-10	0	-2
AUA035095	13.2	5.5	0	0.08	311	0.41	0.002	0.25	0	5.8	0.011	7.35	-10	0	-2

SAMPLEID	La_ppm 1FMS	Li_ppm 1FMS	Lu_ppm 1FMS	Mg_pct 1FMS	Mn_ppm 1FMS	Mo_ppm 1FMS	Na_pct 1FMS	Nb_ppm 1FMS	Nd_ppm 1FMS	Ni_ppm 1FMS	P_pct 1FMS	Pb_ppm 1FMS	Pd_ppb 1FMS	Pr_ppm 1FMS	Pt_ppb 1FMS
AUA035096	16.3	4.2	0	0.08	263	0.35	0.002	0.36	0	4.9	0.016	7.29	-10	0	-2
AUA035097	14.6	5	0	0.08	266	0.35	0.001	0.31	0	5.4	0.016	7.21	-10	0	-2
AUA035098	15.2	3.9	0	0.07	226	0.34	0.001	0.28	0	4.1	0.015	6.61	-10	0	-2
AUA035100	13.2	4.9	0	0.07	170	0.29	0.001	0.29	0	4.3	0.01	6.17	-10	0	-2
AUA035101	13.8	5.8	0	0.09	440	0.52	0.001	0.25	0	6.1	0.012	7.47	-10	0	-2
AUA035102	10.3	4.1	0	0.07	308	0.32	0.001	0.24	0	4.8	0.009	5.5	-10	0	-2
AUA035103	9.3	3.8	0	0.05	192	0.27	0.001	0.2	0	3.7	0.009	4.64	-10	0	-2
AUA035104	9.2	3.4	0	0.06	178	0.28	0.001	0.24	0	3.6	0.008	4.58	-10	0	-2
AUA035105	12.4	5	0	0.12	219	0.37	0.001	0.2	0	5.2	0.009	5.51	-10	0	-2
AUA035106	13.2	4.9	0	0.09	390	0.43	0.001	0.26	0	5.9	0.011	7.33	-10	0	-2
AUA035107	11.6	4.2	0	0.07	118	0.24	0.001	0.33	0	3.6	0.01	5.06	-10	0	-2
AUA035108	17.2	5.3	0	0.1	296	0.35	0.001	0.29	0	6	0.016	7.65	-10	0	-2
AUA035109	15.8	5.3	0	0.09	215	0.34	0.001	0.4	0	4.8	0.012	6.42	-10	0	-2
AUA035110	18.1	5.2	0	0.11	302	0.36	0.001	0.43	0	5.8	0.015	7.89	-10	0	-2
AUA035111	17	4.8	0	0.09	346	0.45	0.001	0.28	0	5.9	0.015	7.39	-10	0	-2
AUA035112	13.4	5	0	0.07	346	0.42	0.001	0.27	0	5.7	0.01	6.63	-10	0	-2
AUA035113	11.5	4.1	0	0.07	255	0.33	0.001	0.26	0	4.6	0.009	6	-10	0	-2
AUA035114	10.2	4.1	0	0.05	129	0.25	0.001	0.22	0	3.5	0.007	4.25	-10	0	-2
AUA035115	12.7	6.3	0	0.09	378	0.39	0.001	0.25	0	6.3	0.011	7.66	-10	0	-2
AUA035116	10.5	5.5	0	0.08	304	0.32	0.001	0.19	0	5.4	0.009	6.56	-10	0	-2
AUA035117	15.6	4.8	0	0.08	211	0.35	0.001	0.34	0	4.8	0.014	6.83	-10	0	-2
AUA035118	19.2	6.1	0	0.13	268	0.38	0.002	0.43	0	5.7	0.014	8.16	-10	0	-2
AUA035119	15.7	4.8	0	0.09	217	0.32	0.001	0.32	0	5.2	0.014	6.36	-10	0	-2
AUA035120	14.5	5.9	0	0.09	246	0.34	0.001	0.32	0	5.3	0.013	6.77	-10	0	-2
AUA035121	16.5	5.1	0	0.1	319	0.44	0.001	0.31	0	6.2	0.014	7.31	-10	0	-2
AUA035122	12.2	4.6	0	0.07	343	0.36	0.001	0.24	0	4.8	0.01	6.48	-10	0	-2
AUA035123	10.1	3.9	0	0.07	190	0.3	0.001	0.19	0	3.7	0.008	5.25	-10	0	-2
AUA035124	10.1	4.4	0	0.06	262	0.33	0.002	0.23	0	4.5	0.008	6.72	-10	0	-2
AUA035125	10.9	5.5	0	0.08	257	0.32	0.001	0.22	0	5.1	0.009	6	-10	0	-2
AUA035126	12.6	5.8	0	0.08	362	0.42	0.001	0.25	0	5.7	0.009	6.96	-10	0	-2
AUA035339	14.2	4.8	0	0.1	281	0.3	0.002	0.23	0	6.3	0.018	6.68	-10	0	-2
AUA035353	18	6.4	0	0.12	338	0.47	0.003	0.26	0	7.9	0.019	8.76	-10	0	-2
AUA035369	21.8	4.9	0	0.1	225	0.42	0.003	0.31	0	6.6	0.025	9.86	-10	0	-2

SAMPLEID	Rb_ppm 1FMS	Re_ppb 1FMS	S_pct 1FMS	Sb_ppm 1FMS	Sc_ppm 1FMS	Se_ppm 1FMS	Sm_ppm 1FMS	Sr_ppm 1FMS	Ta_ppm 1FMS	Tb_ppm 1FMS	Te_ppm 1FMS	Th_ppm 1FMS	Ti_pct 1FMS	Tl_ppm 1FMS	Tm_ppm 1FMS
AUA035007	19.5	-1	0.01	0.08	5.1	0.3	0	6.6	-0.05	0	-0.02	5.5	0.023	0.14	0
AUA035008	18.3	3	0.02	0.1	5.3	0.3	0	5.9	-0.05	0	0.04	5.2	0.018	0.15	0
AUA035009	16.1	-1	0.01	0.06	3.6	0.2	0	8.2	-0.05	0	-0.02	5.4	0.02	0.13	0
AUA035010	18	-1	-0.01	0.08	4.8	0.2	0	12.4	-0.05	0	-0.02	6.8	0.019	0.14	0
AUA035011	17.8	1	-0.01	0.12	5.6	0.2	0	6.6	-0.05	0	0.02	5.9	0.022	0.18	0
AUA035012	16.1	-1	-0.01	0.08	3.9	0.3	0	10.2	-0.05	0	0.02	6	0.02	0.13	0
AUA035015	16.2	-1	-0.01	0.07	4.3	0.2	0	7.7	-0.05	0	-0.02	7	0.016	0.13	0
AUA035016	19.1	-1	-0.01	0.1	4.1	0.1	0	11.9	-0.05	0	-0.02	6.7	0.017	0.14	0
AUA035017	23.4	3	-0.01	0.08	4.4	0.1	0	13.3	-0.05	0	-0.02	6.4	0.02	0.18	0
AUA035018	20	-1	0.03	0.07	3.5	0.1	0	15.4	-0.05	0	-0.02	6.5	0.013	0.13	0
AUA035019	12	1	0.01	0.07	3.4	0.5	0	9.8	-0.05	0	-0.02	7.1	0.02	0.1	0
AUA035020	14.2	1	0.02	0.08	4.5	0.3	0	7.7	-0.05	0	0.02	6.1	0.019	0.1	0
AUA035021	12.1	2	-0.01	0.08	3.6	0.2	0	10	-0.05	0	0.02	5.2	0.018	0.1	0
AUA035022	12.9	-1	0.01	0.07	3	0.3	0	11.8	-0.05	0	-0.02	4.3	0.018	0.09	0
AUA035023	9.2	-1	0.04	0.06	3.9	0.3	0	5.9	-0.05	0	0.03	8.9	0.025	0.07	0
AUA035024	15.2	2	-0.01	0.07	4.8	0.4	0	10.5	-0.05	0	0.03	6.8	0.018	0.13	0
AUA035025	12.7	-1	-0.01	0.09	2.8	-0.1	0	14.9	-0.05	0	-0.02	6.7	0.014	0.09	0
AUA035026	15.7	-1	0.05	0.07	1.9	0.1	0	91.5	-0.05	0	0.02	4.4	0.012	0.09	0
AUA035027	13	-1	-0.01	0.08	3.9	0.3	0	8.6	-0.05	0	-0.02	6.3	0.02	0.11	0
AUA035028	10.9	-1	-0.01	0.08	3.7	0.2	0	8.8	-0.05	0	0.02	7.6	0.02	0.09	0
AUA035029	7.6	-1	0.02	0.06	2.3	0.1	0	4.1	-0.05	0	0.02	8.1	0.019	0.08	0
AUA035031	14.4	-1	0.03	0.09	5.2	0.2	0	8.2	-0.05	0	-0.02	6.1	0.015	0.11	0
AUA035032	8.5	-1	0.01	0.05	2.2	0.2	0	6.6	-0.05	0	-0.02	6.1	0.021	0.06	0
AUA035034	7.9	2	-0.01	0.06	3	0.2	0	5.1	-0.05	0	-0.02	6.5	0.02	0.05	0
AUA035035	10.3	-1	0.03	0.06	2.5	0.2	0	6.7	-0.05	0	0.02	4.7	0.018	0.07	0
AUA035036	5.5	-1	0.02	0.04	1.5	0.1	0	5.4	-0.05	0	0.02	6.6	0.012	0.04	0
AUA035037	14.5	2	-0.01	0.06	3.5	0.4	0	7.5	-0.05	0	0.02	5.8	0.02	0.11	0
AUA035038	10	-1	0.01	0.06	3.8	0.3	0	7.5	-0.05	0	0.02	6.5	0.022	0.08	0
AUA035039	6.1	-1	-0.01	0.06	1.7	0.3	0	7.8	-0.05	0	0.03	6.8	0.018	0.05	0
AUA035040	10.2	-1	-0.01	0.06	4	0.2	0	9.1	-0.05	0	-0.02	7	0.012	0.19	0
AUA035041	7.7	-1	-0.01	0.06	2.9	0.2	0	11.9	-0.05	0	0.02	6.8	0.017	0.07	0
AUA035042	8.9	-1	-0.01	0.06	2.9	0.1	0	5.6	-0.05	0	0.02	5.6	0.017	0.07	0
AUA035043	5.8	-1	0.01	0.04	1.6	0.1	0	6.8	-0.05	0	-0.02	8.1	0.014	0.04	0
AUA035044	12.7	1	-0.01	0.05	2.2	0.1	0	5.5	-0.05	0	-0.02	6.8	0.017	0.08	0
AUA035045	28.9	-1	-0.01	0.06	5.7	0.3	0	7.2	-0.05	0	-0.02	8.1	0.025	0.22	0
AUA035046	14.4	-1	-0.01	0.06	2.9	0.1	0	13.7	-0.05	0	-0.02	6.7	0.023	0.12	0
AUA035047	7.8	-1	-0.01	0.06	2.1	0.3	0	6.6	-0.05	0	0.03	5.8	0.017	0.05	0
AUA035048	6.4	-1	0.02	0.06	2.2	0.2	0	7.2	-0.05	0	-0.02	5.5	0.02	0.06	0
AUA035049	9.9	-1	-0.01	0.07	2.5	0.3	0	4.4	-0.05	0	0.02	8.8	0.021	0.1	0
AUA035050	6.4	-1	-0.01	0.04	1.9	0.1	0	5.8	-0.05	0	-0.02	7	0.017	0.04	0
AUA035051	11.9	3	0.02	0.06	3.7	0.1	0	9.3	-0.05	0	-0.02	7.3	0.017	0.07	0

SAMPLEID	Rb_ppm 1FMS	Re_ppb 1FMS	S_pct 1FMS	Sb_ppm 1FMS	Sc_ppm 1FMS	Se_ppm 1FMS	Sm_ppm 1FMS	Sr_ppm 1FMS	Ta_ppm 1FMS	Tb_ppm 1FMS	Te_ppm 1FMS	Th_ppm 1FMS	Ti_pct 1FMS	Tl_ppm 1FMS	Tm_ppm 1FMS
AUA035052	11.5	-1	0.02	0.05	1.7	0.1	0	4	-0.05	0	-0.02	5.9	0.017	0.07	0
AUA035053	26.5	-1	-0.01	0.08	3.6	0.2	0	6.4	-0.05	0	-0.02	8.9	0.02	0.18	0
AUA035054	23.2	-1	0.02	0.09	3.3	0.1	0	7.2	-0.05	0	-0.02	6.1	0.019	0.18	0
AUA035055	16.2	-1	-0.01	0.06	3.1	0.2	0	4.2	-0.05	0	0.02	5.8	0.019	0.13	0
AUA035056	15	-1	0.02	0.07	3.4	0.1	0	4.6	-0.05	0	-0.02	6	0.018	0.13	0
AUA035057	25	-1	0.02	0.08	4.1	0.3	0	8.3	-0.05	0	-0.02	6.8	0.019	0.2	0
AUA035058	27.8	-1	0.03	0.09	5.5	0.2	0	9.4	-0.05	0	-0.02	8.4	0.023	0.22	0
AUA035059	15.6	1	-0.01	0.07	3.3	0.2	0	4.5	-0.05	0	-0.02	7.1	0.019	0.14	0
AUA035061	21.2	2	-0.01	0.07	3.5	0.1	0	5.4	-0.05	0	-0.02	7.3	0.022	0.18	0
AUA035062	13	-1	0.05	0.06	2.5	0.1	0	4.1	-0.05	0	-0.02	4.9	0.017	0.1	0
AUA035063	22.9	-1	-0.01	0.06	3.4	0.3	0	8.2	-0.05	0	-0.02	6.5	0.02	0.18	0
AUA035064	19.6	-1	-0.01	0.06	2.2	0.1	0	5	-0.05	0	-0.02	7.4	0.019	0.13	0
AUA035065	22.6	-1	-0.01	0.07	3.6	0.2	0	6.8	-0.05	0	-0.02	6.3	0.022	0.19	0
AUA035067	17	-1	0.03	0.08	3.3	0.2	0	5.1	-0.05	0	-0.02	6.6	0.02	0.12	0
AUA035068	21.3	-1	0.02	0.07	4.2	0.3	0	5.6	-0.05	0	0.02	6.9	0.022	0.17	0
AUA035069	20.7	2	0.03	0.08	3.9	0.2	0	5.9	-0.05	0	0.02	7	0.018	0.18	0
AUA035070	22.8	-1	0.04	0.08	4.2	0.1	0	6	-0.05	0	0.02	7.7	0.021	0.17	0
AUA035071	13	-1	0.01	0.06	3	0.1	0	4.3	-0.05	0	-0.02	7	0.018	0.11	0
AUA035072	27	-1	0.01	0.07	5	0.2	0	10.5	-0.05	0	0.02	7.6	0.022	0.21	0
AUA035073	16.7	-1	0.03	0.09	3.9	0.1	0	6.9	-0.05	0	-0.02	6.3	0.019	0.14	0
AUA035074	18.5	1	0.02	0.07	3.3	0.1	0	5.1	-0.05	0	-0.02	6.4	0.021	0.14	0
AUA035075	18.2	1	0.01	0.06	2.1	0.2	0	6.7	-0.05	0	-0.02	6	0.019	0.13	0
AUA035076	21.5	3	0.02	0.07	2.5	0.2	0	4.9	-0.05	0	0.02	8	0.017	0.17	0
AUA035077	15.7	-1	0.01	0.07	3.2	0.1	0	6.2	-0.05	0	-0.02	5.5	0.019	0.13	0
AUA035078	18.3	-1	-0.01	0.09	3.1	0.1	0	4.6	-0.05	0	-0.02	5.9	0.018	0.14	0
AUA035079	26	-1	-0.01	0.11	4.4	0.2	0	7.3	-0.05	0	-0.02	7.7	0.021	0.2	0
AUA035080	19.8	-1	0.02	0.07	3.3	0.3	0	5.1	-0.05	0	-0.02	7.6	0.02	0.15	0
AUA035081	12	-1	-0.01	0.06	1.9	0.1	0	4	-0.05	0	-0.02	6.1	0.016	0.09	0
AUA035082	23.1	-1	-0.01	0.09	4.8	0.2	0	8.5	-0.05	0	-0.02	7.7	0.02	0.18	0
AUA035083	18.3	2	-0.01	0.08	3.7	0.2	0	6.2	-0.05	0	0.02	7	0.02	0.16	0
AUA035084	21.6	-1	0.02	0.08	4	0.2	0	6.3	-0.05	0	0.03	7.6	0.022	0.18	0
AUA035085	24.2	2	-0.01	0.07	2.9	0.2	0	8	-0.05	0	0.02	7.1	0.022	0.16	0
AUA035086	21.7	-1	0.02	0.07	2.7	0.2	0	8.4	-0.05	0	0.02	6.5	0.022	0.16	0
AUA035087	20.4	-1	-0.01	0.07	2.6	0.1	0	5.2	-0.05	0	-0.02	7.6	0.019	0.15	0
AUA035088	16.8	2	-0.01	0.08	3.6	0.1	0	5.7	-0.05	0	-0.02	6.6	0.019	0.15	0
AUA035089	21.3	-1	0.01	0.08	4.4	0.2	0	4.6	-0.05	0	0.02	7	0.021	0.17	0
AUA035091	23.7	-1	0.04	0.07	4	0.2	0	9.4	-0.05	0	0.02	5.8	0.02	0.18	0
AUA035092	23.6	-1	0.03	0.08	4.1	0.2	0	7.8	-0.05	0	0.02	7.7	0.021	0.18	0
AUA035093	18.9	-1	0.02	0.07	3.9	0.2	0	6	-0.05	0	-0.02	6.5	0.021	0.14	0
AUA035094	19	-1	0.01	0.06	3.7	0.1	0	6.3	-0.05	0	-0.02	6.8	0.021	0.13	0
AUA035095	20.1	1	-0.01	0.08	3.8	0.1	0	7.7	-0.05	0	-0.02	7.3	0.02	0.16	0

SAMPLEID	Rb_ppm 1FMS	Re_ppb 1FMS	S_pct 1FMS	Sb_ppm 1FMS	Sc_ppm 1FMS	Se_ppm 1FMS	Sm_ppm 1FMS	Sr_ppm 1FMS	Ta_ppm 1FMS	Tb_ppm 1FMS	Te_ppm 1FMS	Th_ppm 1FMS	Ti_pct 1FMS	Tl_ppm 1FMS	Tm_ppm 1FMS
AUA035096	20.5	-1	0.01	0.07	2.2	0.1	0	7.7	-0.05	0	0.02	4.9	0.019	0.15	0
AUA035097	18.9	-1	0.04	0.07	2.3	0.1	0	6.3	-0.05	0	-0.02	5.4	0.018	0.15	0
AUA035098	19.6	-1	0.04	0.07	2	0.1	0	6.8	-0.05	0	-0.02	5.4	0.016	0.14	0
AUA035100	16.3	-1	0.02	0.07	2.6	0.1	0	4.7	-0.05	0	-0.02	7.4	0.016	0.12	0
AUA035101	22.7	-1	-0.01	0.08	4.4	0.2	0	6.5	-0.05	0	-0.02	6.8	0.024	0.18	0
AUA035102	17	1	0.02	0.07	3.1	0.2	0	5.2	-0.05	0	-0.02	5.9	0.019	0.12	0
AUA035103	12.2	-1	-0.01	0.07	2	0.2	0	4.2	-0.05	0	-0.02	5.2	0.017	0.09	0
AUA035104	13.8	-1	-0.01	0.05	2.3	0.2	0	4.2	-0.05	0	-0.02	5.3	0.017	0.09	0
AUA035105	22	1	-0.01	0.06	3.5	0.2	0	6.5	-0.05	0	-0.02	6.7	0.02	0.12	0
AUA035106	24.2	-1	0.04	0.09	4.1	0.2	0	5.7	-0.05	0	0.02	6.7	0.023	0.17	0
AUA035107	17.3	-1	0.01	0.06	1.7	0.1	0	4.4	-0.05	0	-0.02	5.6	0.016	0.12	0
AUA035108	21	-1	-0.01	0.07	2.7	0.2	0	9.2	-0.05	0	-0.02	6	0.018	0.16	0
AUA035109	22	-1	-0.01	0.06	2.3	0.2	0	9.4	-0.05	0	-0.02	6.1	0.017	0.14	0
AUA035110	24.9	1	0.02	0.07	3.2	0.1	0	10.3	-0.05	0	-0.02	7	0.019	0.15	0
AUA035111	21.2	-1	0.02	0.07	3.7	0.2	0	8.6	-0.05	0	0.03	6	0.02	0.15	0
AUA035112	19.8	1	-0.01	0.09	3.9	0.2	0	5.9	-0.05	0	-0.02	6.7	0.023	0.15	0
AUA035113	18.7	1	0.01	0.08	3	0.2	0	4.9	-0.05	0	-0.02	6	0.022	0.13	0
AUA035114	13	-1	-0.01	0.07	1.8	0.1	0	5	-0.05	0	-0.02	5.7	0.016	0.1	0
AUA035115	22.8	-1	-0.01	0.09	4.4	0.2	0	6.9	-0.05	0	0.02	6.4	0.027	0.16	0
AUA035116	20.5	2	-0.01	0.08	3.6	0.1	0	5.4	-0.05	0	-0.02	6.2	0.022	0.14	0
AUA035117	19.5	-1	0.04	0.07	2.2	0.2	0	6.8	-0.05	0	-0.02	6.5	0.019	0.16	0
AUA035118	28.9	-1	-0.01	0.07	2.8	0.2	0	8.6	-0.05	0	-0.02	6.8	0.025	0.19	0
AUA035119	18.5	-1	0.02	0.06	2.4	0.2	0	9	-0.05	0	-0.02	7	0.018	0.14	0
AUA035120	23.2	-1	-0.01	0.07	2.6	0.2	0	7.4	-0.05	0	-0.02	6.2	0.025	0.15	0
AUA035121	23.2	2	0.02	0.09	3.9	0.2	0	7.9	-0.05	0	0.02	5.5	0.019	0.16	0
AUA035122	17.5	-1	-0.01	0.08	3.5	0.2	0	4.8	-0.05	0	-0.02	6.9	0.02	0.14	0
AUA035123	15.6	-1	0.06	0.06	2.7	0.1	0	4.3	-0.05	0	-0.02	6.6	0.022	0.11	0
AUA035124	16.9	-1	0.03	0.09	3.4	0.2	0	4.8	-0.05	0	-0.02	6.3	0.025	0.14	0
AUA035125	18.7	-1	-0.01	0.08	3.1	0.2	0	6.1	-0.05	0	0.02	5.9	0.021	0.13	0
AUA035126	18.6	-1	-0.01	0.09	4.2	0.2	0	7.1	-0.05	0	0.02	7.3	0.022	0.14	0
AUA035339	16.7	1	-0.01	0.07	3.2	0.1	0	10.9	-0.05	0	-0.02	6.5	0.018	0.11	0
AUA035353	25.1	3	0.02	0.09	4.2	0.1	0	13.2	-0.05	0	-0.02	7.7	0.025	0.17	0
AUA035369	25.9	-1	0.03	0.07	3.5	0.2	0	11.7	-0.05	0	0.02	4.5	0.018	0.14	0

SAMPLEID	U_ppm 1FMS	V_ppm 1FMS	W_ppm 1FMS	Y_ppm 1FMS	Yb_ppm 1FMS	Zn_ppm 1FMS	Zr_ppm 1FMS
AUA035007	1.02	57	0.06	9.19	0	17.6	1.3
AUA035008	1.2	60	0.09	10.86	0	22.4	0.8
AUA035009	0.83	47	0.06	7.52	0	15.4	1.2
AUA035010	1.2	51	0.02	9.33	0	18.8	2.9
AUA035011	1.29	66	0.06	10.2	0	18.1	1
AUA035012	0.86	48	0.07	8.98	0	14.7	1.2
AUA035015	1.02	50	0.06	5.77	0	13.5	1.8
AUA035016	1.04	53	0.07	10.66	0	19	2
AUA035017	1.06	48	0.05	10.06	0	18.9	1.9
AUA035018	0.53	32	0.02	6.54	0	20.9	4.5
AUA035019	0.83	44	0.02	6.1	0	8.6	1.8
AUA035020	1.11	53	0.04	9.4	0	16.4	1.1
AUA035021	0.83	46	0.08	6.87	0	13.6	0.4
AUA035022	0.79	47	0.05	8.13	0	13.5	0.5
AUA035023	0.85	55	0.07	5.09	0	9	2.1
AUA035024	0.96	45	0.05	10.14	0	21.9	1.2
AUA035025	0.57	33	0.06	6.62	0	17.4	3.4
AUA035026	0.49	25	0.05	3.62	0	18.1	1.3
AUA035027	1.15	51	0.04	8.47	0	10.3	1.5
AUA035028	0.68	45	0.04	7.94	0	16.7	1.5
AUA035029	0.78	42	0.05	3.37	0	5	3.2
AUA035031	1	58	0.06	13.04	0	16.3	0.6
AUA035032	0.59	38	0.05	5.68	0	11.8	1.8
AUA035034	1.52	34	0.05	4.96	0	13.2	1.7
AUA035035	3.19	36	0.02	6.28	0	13.3	0.5
AUA035036	0.75	29	0.05	3.7	0	6.9	2.9
AUA035037	0.66	64	0.08	7.92	0	16.4	1.3
AUA035038	0.64	52	0.06	7.02	0	16.2	0.7
AUA035039	0.67	69	0.06	4.03	0	6	1.9
AUA035040	2.05	61	0.05	4.19	0	13.2	3.1
AUA035041	0.83	46	0.07	4.66	0	9.6	3.4
AUA035042	0.77	36	0.09	4.84	0	13.7	0.8
AUA035043	0.82	31	0.06	4.07	0	7.4	3.8
AUA035044	0.7	27	0.09	9.67	0	24.1	1.8
AUA035045	0.87	43	0.07	11.83	0	24.7	1.1
AUA035046	0.62	44	0.06	5.45	0	15.5	1.5
AUA035047	0.52	53	0.05	4.46	0	6.6	1.8
AUA035048	0.48	52	0.03	4.24	0	7.9	3.5
AUA035049	0.88	43	0.07	4.18	0	8.7	3.3
AUA035050	0.52	29	0.08	3.74	0	8.7	4.1
AUA035051	1.4	40	0.05	6.61	0	14.2	4

SAMPLEID	U_ppm 1FMS	V_ppm 1FMS	W_ppm 1FMS	Y_ppm 1FMS	Yb_ppm 1FMS	Zn_ppm 1FMS	Zr_ppm 1FMS
AUA035052	1.12	24	0.08	8.36	0	14.8	2.2
AUA035053	1.88	37	0.1	10.52	0	12.8	1.8
AUA035054	1.32	40	0.07	12.15	0	12.4	0.6
AUA035055	0.88	35	0.04	7.85	0	8.6	1.8
AUA035056	1.05	36	0.04	6.99	0	8.8	1.4
AUA035057	1.23	45	0.09	11.32	0	12.5	1.6
AUA035058	1.36	51	0.06	11.07	0	13.5	2.7
AUA035059	1.08	38	0.11	6.43	0	8.5	3.4
AUA035061	1.08	43	0.05	8.43	0	11.3	4.2
AUA035062	0.77	30	0.05	5.38	0	8.1	0.7
AUA035063	1.14	37	0.04	9.64	0	13.8	0.9
AUA035064	1.24	29	0.12	8.46	0	11.1	1.1
AUA035065	1.34	41	0.09	11.62	0	13.5	1.2
AUA035067	0.93	38	0.04	7.93	0	8.4	1.5
AUA035068	1.09	42	0.04	10.11	0	10.8	2.7
AUA035069	1.19	43	0.05	9.04	0	11.2	1.3
AUA035070	1.23	43	0.05	9.67	0	11.2	3.5
AUA035071	0.91	33	0.06	6.02	0	6.9	2.3
AUA035072	1.4	45	0.06	13.16	0	15.1	2.1
AUA035073	1.18	40	0.05	8.19	0	10.3	1.2
AUA035074	0.94	37	0.05	7.39	0	9.6	2.8
AUA035075	1.2	26	0.13	9.89	0	10.6	0.4
AUA035076	1.46	31	0.13	10.23	0	10.4	0.8
AUA035077	0.92	39	0.05	7.39	0	9.2	0.9
AUA035078	0.84	38	0.05	8.34	0	8.9	2.3
AUA035079	1.43	50	0.06	11.51	0	14.8	3
AUA035080	0.97	36	0.07	7.28	0	10.1	4.2
AUA035081	0.7	28	0.06	4.94	0	7.1	1.9
AUA035082	1.36	45	0.06	9.97	0	12.7	2.5
AUA035083	1.15	40	0.09	7.74	0	10.1	2.1
AUA035084	1.23	45	0.05	9.25	0	11.5	2.9
AUA035085	1.55	32	0.11	12.14	0	12.8	0.8
AUA035086	1.21	29	0.11	11.38	0	11.9	0.7
AUA035087	1.33	29	0.09	9.2	0	9.5	1.3
AUA035088	1.03	41	0.07	7.74	0	8.9	1
AUA035089	1.13	44	0.07	9.23	0	11.2	3.7
AUA035091	1.26	41	0.08	10.54	0	14	0.8
AUA035092	1.4	44	0.07	11.1	0	11.1	2.6
AUA035093	1.14	44	0.06	10.45	0	10.9	1.3
AUA035094	1.11	40	0.04	7.46	0	9.8	3.2
AUA035095	1.27	42	0.05	8.41	0	10.4	1.7

SAMPLEID	U_ppm 1FMS	V_ppm 1FMS	W_ppm 1FMS	Y_ppm 1FMS	Yb_ppm 1FMS	Zn_ppm 1FMS	Zr_ppm 1FMS
AUA035096	1.26	30	0.14	11.62	0	13.4	0.4
AUA035097	1.02	28	0.14	9.8	0	11.5	0.4
AUA035098	1.14	28	0.13	10.09	0	11.4	0.3
AUA035100	1.1	28	0.11	6.85	0	8.4	1
AUA035101	1.17	47	0.05	9.85	0	12.3	2.5
AUA035102	0.88	35	0.06	6.93	0	8	2.5
AUA035103	0.68	28	0.06	4.67	0	7.4	1.2
AUA035104	0.7	30	0.06	4.99	0	6.1	2.5
AUA035105	0.95	36	0.05	7.96	0	9.5	3.7
AUA035106	1.24	43	0.05	9.65	0	12.4	2.9
AUA035107	0.97	25	0.17	6.37	0	9.7	0.4
AUA035108	1.17	31	0.08	12.27	0	12.9	0.7
AUA035109	1.18	31	0.07	11.65	0	12	0.5
AUA035110	1.5	33	0.08	12.9	0	13.5	0.9
AUA035111	1.4	42	0.05	11.78	0	13.1	0.7
AUA035112	1.36	44	0.05	8.15	0	10.3	1.8
AUA035113	0.98	36	0.04	7.97	0	8.3	1.6
AUA035114	0.72	28	0.06	5.77	0	6.9	1.8
AUA035115	1.22	44	0.06	8.99	0	9.6	3
AUA035116	0.96	39	0.03	6.82	0	9	3.6
AUA035117	1.13	28	0.1	9.29	0	10.9	0.6
AUA035118	1.73	33	0.1	13.55	0	13.5	0.8
AUA035119	1.07	29	0.12	9.58	0	11.3	0.9
AUA035120	1.11	32	0.09	10.67	0	12	0.7
AUA035121	1.45	43	0.05	12.55	0	12.2	0.5
AUA035122	1.23	40	0.04	7.41	0	8.5	2.6
AUA035123	0.86	32	0.05	5.39	0	6.4	4.2
AUA035124	0.86	40	0.04	6.65	0	7.1	3.9
AUA035125	0.79	38	0.07	6.99	0	8.8	2.5
AUA035126	1.38	48	0.02	7.81	0	10.8	4
AUA035339	1.31	36	0.05	9.58	0	15.5	2
AUA035353	1.85	45	0.06	13.56	0	21.9	2
AUA035369	1.73	44	0.06	13.13	0	21.6	0.4

APPENDIX 4 - Analysis Specifications

ACME Analytical Laboratories Ltd. ISO 9002 REGISTERED

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852 East Hastings Street. Vancouver, BC, Canada V6A 1R6
Ph: (604) 253-3158 Fax (604) 253-1716 Toll free (North America only): 1-800-990-2263 E-mail: info@acmelab.com

COMPANY: ANGLO AMERICAN AUSTRALIA *FILE#: A202320* *BATCH: AU000063*

PROJECT: NIL *TYPE OF SAMPLES: ROCK PULP* *PREPARATION: NIL*

ANALYTICAL PACKAGES: **53 ELEMENTS, GROUP 1F-MS** *REAGENTS:* **2:2:2 HNO3-HCL-H2O**

SAMPLE SIZE:

WEIGHTS (g)	ACID (ml)	FINAL VOL. (ml)
30	180	600
15	90	300
7.5	45	150
1	6	20

PROCEDURE: **Digest in hot water bath for one hour.**

INSTRUMENTS: **ICP-MS PERKIN-ELMER ELAN 6000**

NOTE: **Package intended for un-mineralized samples.**
Partial leached for refractory, alkaline and REE elements.
Not suitable for gold if samples contain massive sulfide and graphite.

*** 10x dilution due to high mineralization**
Assay recommended for Mo, Cu, Pb, Zn, Ni, As, >10,000ppm
Ag >99999 ppb

Elements	Detection	Upper Limits	Elements	Detection	Upper Limits	Elements	Detection	Upper Limits
Au	0.2ppb	100ppm	Mg	0.01%	30%	V	2ppm	10000ppm
Ag	2 ppb	100ppm	Mn	1ppm	10000ppm	W	0.01ppm	100ppm
Al	0.001%	10%	Mo	0.01ppm	2000ppm	Zn	0.1ppm	10000ppm
As	0.1ppm	10000ppm	Na	0.001%	10%	Be	0.1ppm	1000ppm
B	1 ppm	2000ppm	Ni	0.1ppm	10000ppm	Ce	0.01ppm	2000ppm
Ba	0.5ppm	10000ppm	P	0.001%	5%	Cs	0.02ppm	2000ppm
Bi	0.02ppm	2000ppm	Pb	0.01ppm	10000ppm	Ge	0.1ppm	100ppm
Ca	0.001%	40%	S	0.01%	10%	Hf	0.02ppm	1000ppm
Cd	0.01ppm	2000ppm	Sb	0.02ppm	2000ppm	In	0.02ppm	1000ppm
Co	0.1 ppm	2000ppm	Sc	0.1ppm	100ppm	Li	0.1ppm	2000ppm
Cr	0.5ppm	10000ppm	Se	0.1ppm	100ppm	Nb	0.02ppm	2000ppm
Cu	0.01ppm	10000ppm	Sr	0.5ppm	10000ppm	Rb	0.1ppm	2000ppm
Fe	0.001%	40%	Te	0.02ppm	100ppm	Re	1ppb	1000ppm
Hg	5ppb	100ppm	Th	0.1ppm	2000ppm	Sn	0.01ppm	100ppm
Ga	0.1ppm	100ppm	Ti	0.001%	10%	Ta	0.05ppm	2000ppm
K	0.001%	10%	Tl	0.02ppm	100ppm	Y	0.1ppm	2000ppm
La	0.5ppm	10000ppm	U	0.01ppm	2000ppm	Zr	0.1ppm	2000ppm
Pd	10ppb	1000 ppb	Pt	2 ppb	1000 ppb			

APPENDIX 5 - Previous Exploration

Report Summary

Regional Geology

The Ti Tree project (also referred to as Barrow creek project) area lies within the S.E. portion of the Mt. Peake and the SW portion of the Barrow Creek 1:250 000 geological map sheets.

The project area is located in the Northern tectonic zone of the Paleoproterozoic Arunta inlier. The relationship between the Arunta and Tanami provinces is poorly understood. Numerous workers (e.g. Blake et al,1975; Shaw & Stewart, 1975; Shaw 1975, 1990) have suggested the meta-sedimentary basement sequences of the Arunta province and the Granites-Tanami province may be lateral equivalents. Both provinces share similar stratigraphy, magmatic and deformation histories.

Important Orogenic and Magmatic events within the Arunta Province:

Event	Radiometric Age	Description	Reference
Barramundi	1890 –1850Ma.	Intrusion by mafic rocks, regional deformation & metamorphism (<amphibolite facies).	Page & Williams, 1988
	1820-1800 Ma.	Intrusion of Granite Plutons	
Hatches Creek Group	?	Deposition of platform quartzite-shale-carbonate sediments (Reynolds Range group/Hatches creek) unconformably overlying the Metamorphic basement.	Blake et al, 1987
	?	Tight upright folding of Hatches Creek group.	
Strangeways Orogeny	1780-1730 Ma.	Strange ways Granulite event	Shaw et al, 1984
Aileron	1760-1650 Ma	Aileron retrogressive metamorphic event.	Windrim & McCulloch, 1986
Granite intrusion	1760 – 1570 Ma.	Multiple granite intrusion events at 1780-1770, 1713, 1635 & 1570 Ma.	
Alice Springs Orogeny	350-300Ma	Open folding and faulting of the Georgina basin	Haines, Hand & Sadniford

The geology of the Ti Tree project area is comprised of stratigraphic divisions two and three (lander Rock beds and Bullion Schist unit) of the Arunter inlier. These rocks have variable metamorphic grades ranging from lower greenschist to lower amphibolite facies. The lithologies identified within these stratigraphic units include orthogneiss, calc-silicates, schists, arenites, phylites amphibolites and felsic volcanic rocks.

Exploration Summary

Exploration in this area includes Uranium (CRA), gold/ base metal/diamond (WMC) and gold exploration (Aberfoyle Resources) conducted during the 1980 – 1997. This work consisted of regolith mapping, aeromagnetic, radiometrics, gravity ground mag, lag sampling, auger drilling (ineffective), vacuum drilling and shallow RC drilling (< 65m).

During WMC's exploration of the Ti Tree project area a number of mafic - ultramafic intrusions have been identified within the Tompkins Prospect. These bodies are characterised by magnetic highs (both ground and Aero magnetic) and elevated levels of Ni (15-45ppm) Cr (<1900ppm) Cu (<105 ppm) detected in surface (lag sampling) geochemistry.

During lag sampling it was noted that the magnetic highs are associated with small hills capped with ferrugenised pisolitic duricrust. This may represent an outcrop of weathered and ferrugenised mafic-ultramafic rock.

Following the results of the surface geochemistry, the major anomalies were drill tested by WMC in 11 RC holes (TTRC0017-27). A thin layer of transported cover (0-5m) exists with the base of weathering varying from 2 -15m in depth with ultramafic rocks having deeper weathered profiles than the basalts. All holes penetrated into fresh rock with depths vary between 30 – 63m. Drilling intersected pyroxenite, peridotite, serpentinised ultramafic, ultramafic schist, minor gabbro and dolerite. These rocks appear mostly fresh with olivines and cumulate textures preserved.

Interesting geochemical anomalism has been intersected (See table below) within these drill holes. High Ni and Cu values within the holes TTRC0024 (Ni < 2450 ppm & Cu < 2150 ppm) and TTRC0025 (Ni < 4800 ppm & Cu < 6500 ppm) are coincident with a more weathered lithology. The low iron and cobalt values associated with these Ni-Cu values indicate this may be a part of a nickel sulfide rather than a product of supergene enrichment. Further drill testing in this area is required to determine if the high Ni-Cu values are part of a larger mineralized system.

Information gathered by WMC and ARL including rock chips, regolith mapping, lag sampling and vacuum drilling from Tompkins and Tompkins west (WMC); Conical Hill and Mt Rennie Swamp areas (ARL). ARL reported intersection of some gabbros and ultramafic lithologies in the vacuum drilling in the Conical Hill prospect.

Summary of Significant intersections

Hole ID	Depth to	Depth From	Width (m)	Lithology	Ni ppm	Cu ppm	Cr ppm
TTRC0018	14	24	10	Wcy-Us	1425	529	1533
TTRC0023	14	25	16	Wcy-Us	1820	1948	2829
TTRC0024	13	19	6	Wcy-Us	2525	1568	10 550
	20	24	5	WcyU- Us	1200	513	2850
TTRC0025	7	18	12	Wcy-U - Usoc	2445	2410	3508
TTRC0026	30	48	19	Wcy-U	3581	496	1756

Ti Tree Project Data Availability

Data Type	Availability	Required
RC drilling	.txt files containing assay, magsus, collar and geology	Transcribe WMC logging codes to AMEx codes. Validate database, several inconsistencies found.
Regolith Map	Scanned Image	If further Surface sampling undertaken, map should be updated and digitized.
Surface Chemistry	Scanned data sheets and maps only	Require data in a digital format over project area, before better evaluation can be made.
Geophysics	Raster images, some modeling of intrusive bodies complete	
Rock Chip sampling	Scanned data sheets from WMC & ARL	Require data in a digital format over project area.
Vacuum Drilling	Scanned Data sheets from ARL	Require data in a digital format over project area.

Exploration History

CRA 1970 -1983

CRA conducted two phases of Uranium exploration. The first phase of exploration included regional (1:80 000) geological mapping, aerial photograph interpretation, Aeromagnetic / radiometric survey. Work yielded poor results (U < 33ppm) and work ceased until 1979.

Renewed interest in the area led to a second phase (1979-1983) of exploration. This phase of work included further aeromagnetic/radiometric surveys, stream sediment sampling, rock chip/ soil geochemistry and some diamond drilling. An anomalous rock chip sample (1.1ppm U) in hematitic shale was found, however the ground was relinquished following this work.

1992
Report CR 1993 –085A

The first year Tenements EL 7557, 7558 & 7559 had been granted to WMC. Exploration targeted gold and Base metal deposits associated with Proterozoic iron rich rocks.

Exploration Activities

Reconnaissance geological mapping and rock chip sampling of outcrops within the project area. Further detailed mapping was planned for 1993.

Based geological interpretations of the regional geophysics and reconnaissance mapping four areas of interest were determined. A program of broad spaced (1600 x 100m comprising of 3000 samples) surface geochemical sampling (Lag, SCANT & soil concentrate) was planned in these four areas. Due to adverse weather conditions sampling of only “high priority areas” occurred. Soil sampling (1220 samples) included the Tompkins and Green prospects was undertaken, the assay scheme included the following elements: Mn, Fe, Co, Ni, Cu, Zn, As, Mo, Ag, Sb, Ba, Pb and Bi. Weak Au anomalism was detected.

1993.
Report CR 1994 –383

The Barrow Creek Project consists of Five prospects have been identified these are Green, Tompkins, Mckay, cooper and Mt Ester. The highest priority prospects are Green, Tompkins and Mt Ester. The prospects have been identified by anomalies identified in geophysics and in anomalous surface geochemistry.

Exploration Activities

Variable depositional regimes were identified during lag and scant sampling programs during 1992. To obtain more meaningful results and to better target surface geochemistry a 1:100 000 scale regional regolith map was prepared. Mapping was conducted using BW aerial photographs and reconnaissance field checking.

Open file aeromagnetic and radiometric from a CRA survey (1979) data was merged into existing BMR and NTDME regional datasets. A semi regional gravity survey was completed over the entire region with detailed measurements made at Green, Tompkins and Mt Esther prospects.

Green Prospect

	Activity	**Description**
Geophysics	Gravity	800 x 500m spaced stations
Geochemistry	Auger Drilling	99 auger holes drilled (<6.3m depth) for 339 m on a 50 x 50m grid over best results following scant sampling. Assay for Au only (?)

Tompkins

	Activity	**Description**
Geophysics	Gravity	800 x 500m spaced stations

Mt Ester

	Activity	**Description**
Geophysics	Gravity	200 x 250m spaced stations
Geochemistry	Soil Sampling	Soil sampling using Au, Bi, Cu, Fe, Mn, Pb, Zn & Au assay scheme.

Results

Rock chip sampling identified Cu-Bi (Au) anomalous ironstones with coincident gravity and aeromagnetic anomalies.

Surface anomalism in the identified at Green prospect was followed up by auger drilling, but no further anomalism was identified and no other work was continued.

1994
Report CR 1995 – 107

Barrow project renamed Ti Tree project.

Exploration Activities

Regional gravity survey with a total of over 500 stations measured on 500 x 500/1000m station intervals was made over the reporting year. Detailed ground and airborne geophysical survey were made over the prospect areas.

Green Prospect

Method	Activity	Description
Geophysics	Aeromagnetic	Airborne magnetic/radiometric
	Gravity	500 x 100m spaced stations
Geochem	Auger Drilling	99 auger holes drilled (<6.3m depth) for 339 m on a 50 x 50m grid over best results following scant sampling. Assay scheme Au only (?)
Drilling	RC	Previous (1993) auger drill holes were deemed ineffective and did not penetrate basement. Five deeper RC holes for 490m (TTRC12 – 16) were drilled across a magnetic anomaly with penetrating basement. No reason for the magnetic anomaly is stated?

Tompkins

Method	Activity	Description
Geophysics	Ground mag	N-S orientated 200m spaced lines over the individual anomalies
	Aeromag	Airborne magnetic/radiometric
	Gravity	500 x 500 m spaced stations
Geochem	Lag	100 x 1600m spaced north – south orientated lines. Samples analysed for Ag, As, Au, Ba, Bi, Co, Cr, Cu, Fe, Mn, Mo, Ni, Pb, Sb, Zn. Elevated Ni-Cr-Cu across magnetic highs, other results erratic. **Note**: low hills capped with pisolitic ferruginous duricrusts (weathered Umafic?) are associated with this anomalism.
Drilling	RC	12 holes for 660m were drilled to test bull's eye anomalies. Holes intersected pyroxenite, peridotite and a gabbro with fresh olivine preserved. Elevated levels Ni (-)Cu(-)Cr(-) occur in fresh umafic and at weathered/fresh rock interface.

Mt Ester

Work following up anomalous Cu/Bi/Au rock chip sampling conducted in 1993.

Method	Activity	Description
Geophysics	Gravity	100 x 100m spaced stations
	IP	Six lines of nine electrodes collected using either 100 or 50m dipoles. Identified NW polarisable zone corresponding to the anomalous geochemistry.
	Ground Mag	18 line Km collected on 19 100m spaced lines with readings taken at 5m intervals.
	TEM	Data collected 100m spacing along 100m spaced lines. Traverse used to test method.
Geochem	Soils	Soil sampling using Au, Bi, Cu, Fe, Mn, Pb, Zn & Au assay scheme.
Drilling	RC	11 holes for 660m testing coincident geochemical, IP, mag and gravity anomalies. Holes intersected granite with magnetite – sulfide alteration.

Results

Aeromagnetic data shows a cluster of small magnetic anomalies, these anomalies are thought to have similarities to the Tennant Creek ironstone lodes or Kimberlite/lamprophyre intrusions. These anomalies have been followed up by a detailed ground magnetic survey in the Tompkins area.

Drilling in the Tompkins area intersected mafic–ultramafic intrusive rocks associated with a "bulls eye" magnetic anomalies and anomalous geochemistry.

1995
Report CR 1996 – 47

Work aimed at improving existing data sets and defining prospective stratigraphy in areas of shallow transported cover. An aeromagnetic survey flown over EL8869 & 7558 for a total of 1,468 line km. Anomalies were then modeled to prioritise stratigraphic drilling. Remodelling of drilling at B.H.P. 's Nottarowa prospect indicated this drilling had tested this target effectively.

Sapper Soak South Prospect

Method	Activity	Description
Drilling	RC	Twenty holes (TTRC29-31, 44-60), intersected sheared granites

Sapper Soak Prospect

Method	Activity	Description
Drilling	RC	Twelve holes (TTRC32-43), intersected sheared granites.

Mckay Prospect

Method	Activity	Description
Drilling	RC	Five holes were drilled at Mckay prospect (TTRC61-65). Intersecting a granite in the west and Adelaidian quartzites.

Green Prospect

Method	Activity	Description
Drilling	RC	Three holes (TTRC130 – 132) for ?m. Extending work north of that completed. Two holes (TTRC13-15) deepened to further test stratigraphy.

Tompkins- West

Method	Activity	Description
Geology	Rock Chip sampling	Sampling of outcrops
Drilling	RC	Fifty-seven holes (TTRC66 – 116, TTRC133-138). Some mafic small intrusives intersected (Lander beds).

Tompkins -East

Method	Activity	Description
Geophysics	Aeromagnetic	Airborne magnetic/radiometric
Drilling	RC	Thirteen holes (TTRC117 – 166, TTRC133-138). Some mafic small intrusives intersected (Lander Beds).

1996

Report CR 1997 – 205

Partial relinquishment report for exploration licenses 7557 & 7558.

Review of existing geological, geochemistry, geophysics and RC. Some further modeling of geophysical survey.

No new work presented.

Tompkins Prospect

Method	Activity	Description
Geochemistry	Soils?	Infill sampling retesting geochemical anomalism found in early phases of sampling. Unable to replicate original anomalism.

1997

Report CR 1998 – 060

A JV. between W.M.C. and Aberfoyle Resources Ltd. (ARL. as managers) was entered into. ARL's work during this period included data compilation, gridding, clearing, native title negotiations and a program of vacuum drilling. ARL rename most of the prospect areas. Tompkins is named Mt Rennie swamp and Tompkins west is named Conical Hill

Method	Activity	Description
Drilling	Vacuum	A total of 382 holes for 1007m were completed over a large area. Including Salt well EL7557 (26 holes); Conical Hill EL7559 (337 holes); Mt Rennie South EL 88969 (4 holes) and Mt Rennie Swamp EL8870 (15 holes). In the Conical hill area EL7559 Ultramafic rocks were intersected.

1998

Report CR 1999 – 028 (WMC Report)

Surrender Report.

Report CR 1999 – 029 (ARL Report)
ARL decide to end JV agreement.

	Activity	Description
Geophysics	Modeling	Remodeling of WMC EM, IP and magnetic data sets. Some Errors found in the interpretation of Mt Ester IP modeling
Geochemistry	Soil sampling	72 soil samples taken on tenements EL8869 – 8870. Samples assayed for by Au & As.
	Rock Chip	Four rock chip samples taken