



G L E N G A R R Y

EPM 13664 - SUGARLOAF

ANNUAL REPORT

Period ending 12 June 2003

and

FINAL REPORT

Authors
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August 2003

1:250,000 Sheet: Rockhampton SF56-13
1:100,000 Sheet: Mt Morgan

GLENGARRY RESOURCES LIMITED
ABN 40 009 468 099

SUMMARY

EPM 13664 was held 100% by Glengarry Resources Ltd. It is located at Westwood, 50 km south west of Rockhampton and 25 km west of Mt Morgan in Central Queensland. The EPM covers a late Permian layered gabbro intrusive which is strongly anomalous in copper and gold.

During the reporting period Glengarry carried out an airborne EM survey and interpretation, stream sediment, soil and rock chip sampling and drilled two RC percussion drill holes.

Stream sediment sampling at apparently strongly anomalous (Pt, Au) Central Pacific Minerals sample sites failed to confirm the tenor of the anomalies.

Sampling of copper stained and gossanous rocks from the Fred's Creek prospect returned copper and gold assays up to 12.2% and 4.7 g/t respectively confirming the association of elevated copper and gold values.

The drill holes were targeted at the best copper soil anomalies however the best intercepts were only 520 ppm Cu and 87 ppb Au+Pt+Pd in separate 5m composites in one of the holes. Based on the drilling and other exploration results there seems to be little potential for economic Cu-Au-PGM mineralisation at the Fred Creek prospect.

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1.0 INTRODUCTION

EPM 13664 (Sugarloaf) was applied for based on the results of previous BHP exploration which outlined anomalous copper assays in soils, rocks and drill holes as well as significant gold intercepts up to 4.5m at 4.9 g/t in drill holes at Fred's Creek, located 7 km to the NNW of Westwood.

Work carried out in the region by Glengarry has focussed on the copper, gold, and PGM potential of small layered gabbro complexes emplaced in the area during the Late Permian. Seven of these intrusives outcrop over a strike length of approximately 50 km and the northern most, the Fred's Creek complex, outcrops within EPM 13664.

The Bucknalla Complex (within Glengarry's adjoining EPM 13305) immediately to the south of the Fred's Creek Complex was first recorded in the literature by Shepherd (1956) when the Pd content of ore taken from a small 12m deep shaft known as the Westwood Cu-Pd-Au mine was reported.

2.0 LOCATION AND ACCESS

The tenement is located approximately 50km southwest of Rockhampton and 25km due west of Mt Morgan (Figure 1), near the town of Westwood in Central Queensland, on the Mt Morgan 8950 1:100,000 map sheet.

Access is along station tracks and some fence lines however steep terrain in the Westwood area makes vehicle access difficult.

3.0 TENEMENTS

EPM 13664 was owned 100% by Glengarry Resources Limited. The tenement comprising 81 sub-blocks (Table 1 & Figure 2) was granted for 3 years on 13 June 2002 and surrendered at the end of the first year.

Table 1 - Block Identification Map Series B - Rockhampton

Block	Sub-blocks
3025	o p r s t u w x y z
3026	l m n q r s t u v w x y z
3027	q r s v w x
3097	b c d e j k o p t u y z
3098	a b c d e f g l m q r v w
3099	a b c d e h j k n o p s t u x z
3169	d e j k
3170	a b f g l m n

Number of sub-blocks = 81

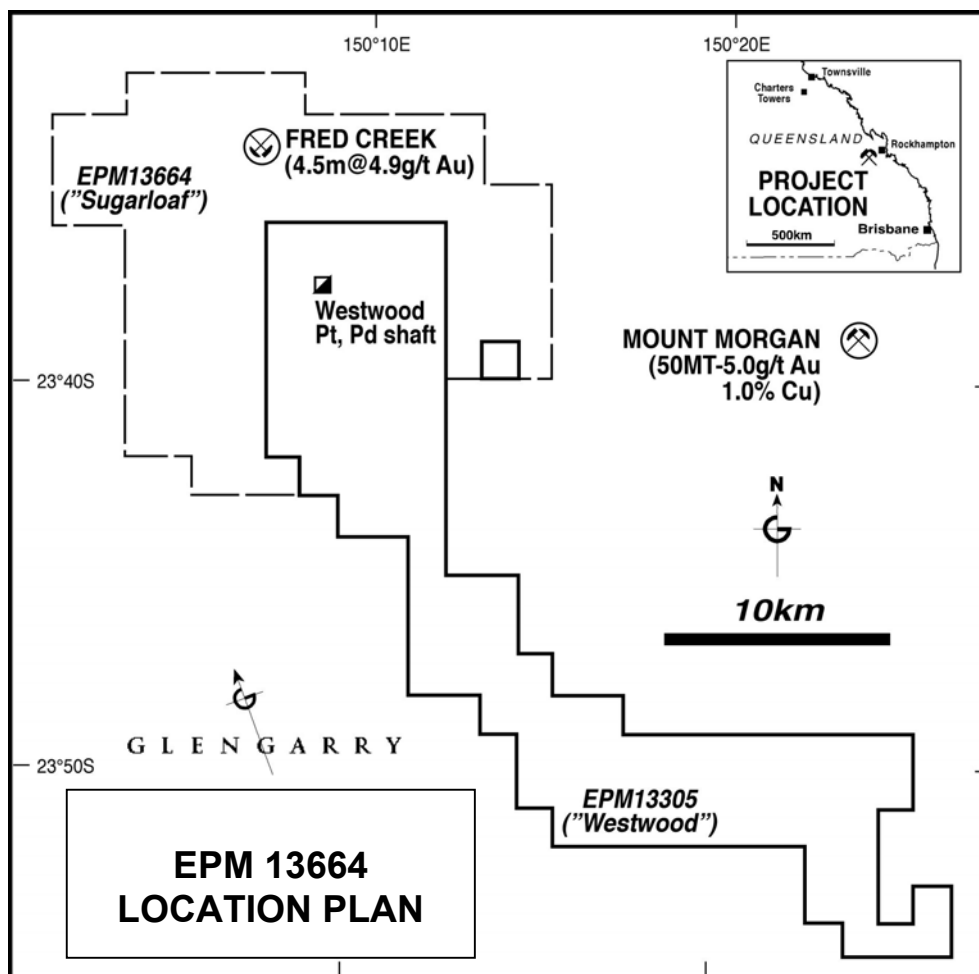


Figure 1 Location Plan

4.0 GEOLOGY

The oldest rocks in the area are the Lower Permian Rookwood Volcanics, which consist predominantly of spilitic lavas, basaltic lavas, and minor vitric tuffs. These were deposited in the Grantleigh Trough and are overlain by the Moah Creek Beds which outcrop as dark purple mudstones. Contact with the Rookwood Volcanics is locally sharp with fault breccias containing limonite, chalcedony, and quartz. These rocks were folded in the middle to late Permian, prior to emplacement of basic intrusions, known informally as the Westwood complex (Bucknalla complex), the Fred Creek complex, and the Windah intrusion.

The granodioritic Bouldercombe complex was emplaced in the late Permian (dated at 235 my). A zone of hybrid rocks between the Fred Creek and the Bouldercombe complexes is suggested by Clifford (1987) to indicate similar ages.

The eastern portion of the tenement is overlain by Cretaceous basalt, and a number of Cretaceous rhyolite and trachyte plugs form prominent hills.

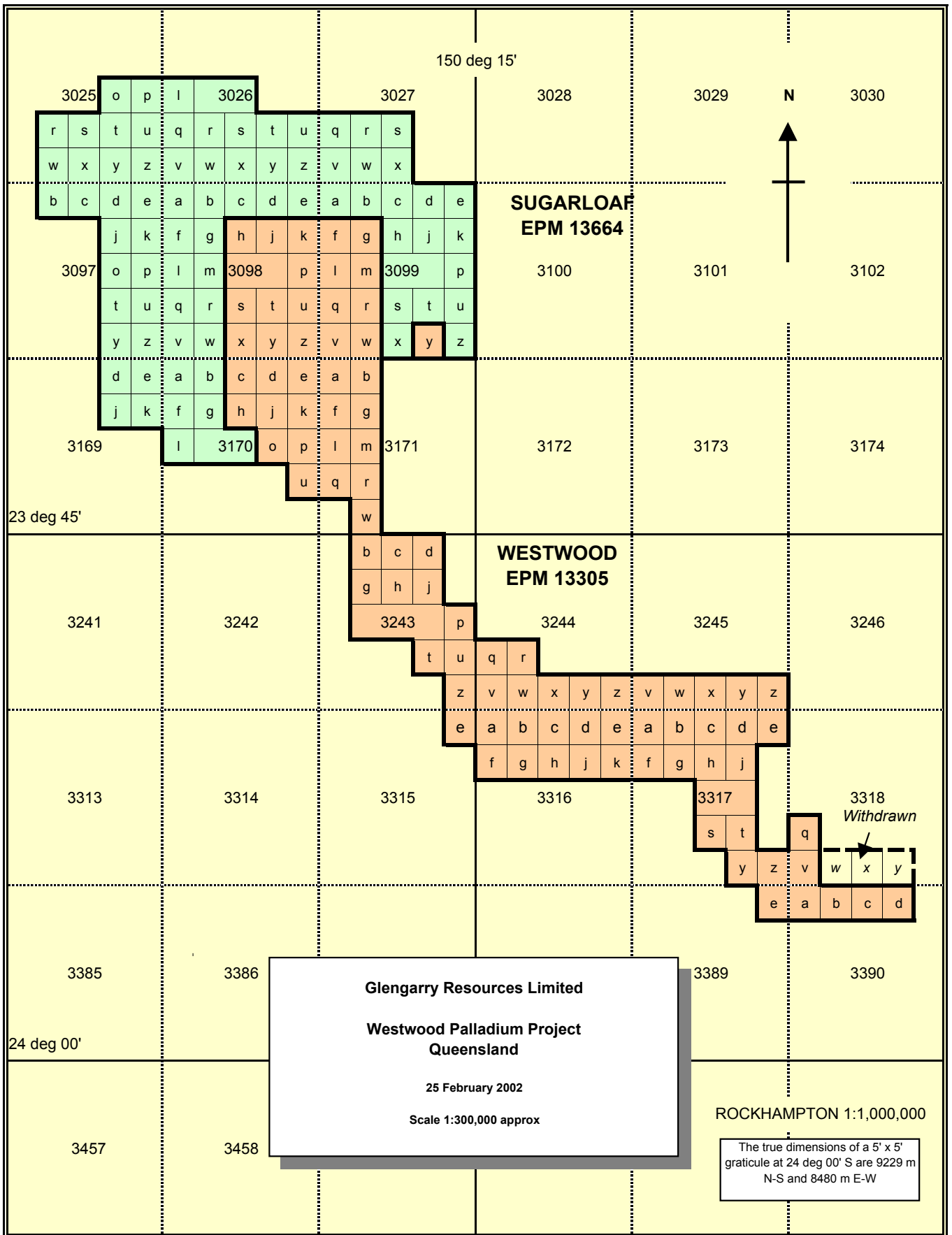


Figure 2

5.0 PREVIOUS EXPLORATION

Much of the area was explored by CRA from 1961-1962 as part of a larger mapping and stream sediment sampling programme. CRA concentrated their efforts on Cu-Mo mineralisation at Moonmera.

BHP held the ground from 1968 to 1972 and completed substantial grid based exploration for copper and nickel on A to P 532M. Vertical percussion drilling in 1969-70 returned significant gold intercepts from 5 shallow holes spaced 30 – 50 metres apart at the Fred Creek prospect, ie.

- W 20 (depth 45m) 33m @ 0.97 g/t Au from 12m includes 4.5m @ 4.9 g/t Au from 24m.
- W 21 (depth 56m) 52m @ 0.32 g/t Au from 4m includes 3m zone of semi massive sulphides from 39m @ 0.75% Cu, 0.45g/t Au, & 13g/t Ag.
- W 22 (depth 45m) 43m @ 0.52 g/t Au from 2m.

The mineralisation at Fred Creek is associated with NW trending zones of silica-sulphide-chlorite alteration within a layered gabbro complex. Up to 36 ppb platinum was returned from a stream sediment sample, one kilometre to the north of the drilling.

Nord Resources evaluated BHP's work and subsequently drilled one hole.

Central Pacific Minerals NL (CPM) in joint venture with Southern Pacific Petroleum NL and Messrs Mackenzie, Forbes and Clark, were granted A to P 4190M in 1986. CPM regridded the Westwood Layered Gabbro Prospect and carried out detailed ground magnetics and soil geochemistry (1450 samples) assaying for copper, gold, platinum, and palladium. A regional stream sediment sampling survey covering 1428 sites was also completed. Ten holes were drilled.

CRA briefly held ground in this area in 1995 but only completed two small ground EM surveys totalling 11 line km.

6.0 WORK CARRIED OUT BY GLENGARRY

Work carried out during the reporting period involved a helicopter EM (HoistEM) survey and interpretation, rock chip, soil and stream sediment sampling and RC percussion drilling at the Fred Creek prospect.

6.1 Airborne EM Survey

A 309 line km helicopter EM survey (Figures 3, 4 & 5) was flown over the Westwood and Fred Creek layered gabbros and intervening area by GPX using the HoistEM system. The survey had a flight line spacing of 200m on both N-S and E-W lines and a flying height of 30m. A report by GPX

listing more detailed survey specifications is attached as Appendix 1. The survey was flown in order to delineate any buried conductors possibly related to massive sulphides.

The raw EM data profiles were interpreted for Glengarry by geophysicist L Wynne and geologist P Rea. No high priority EM anomalies were generated within EPM 13664.

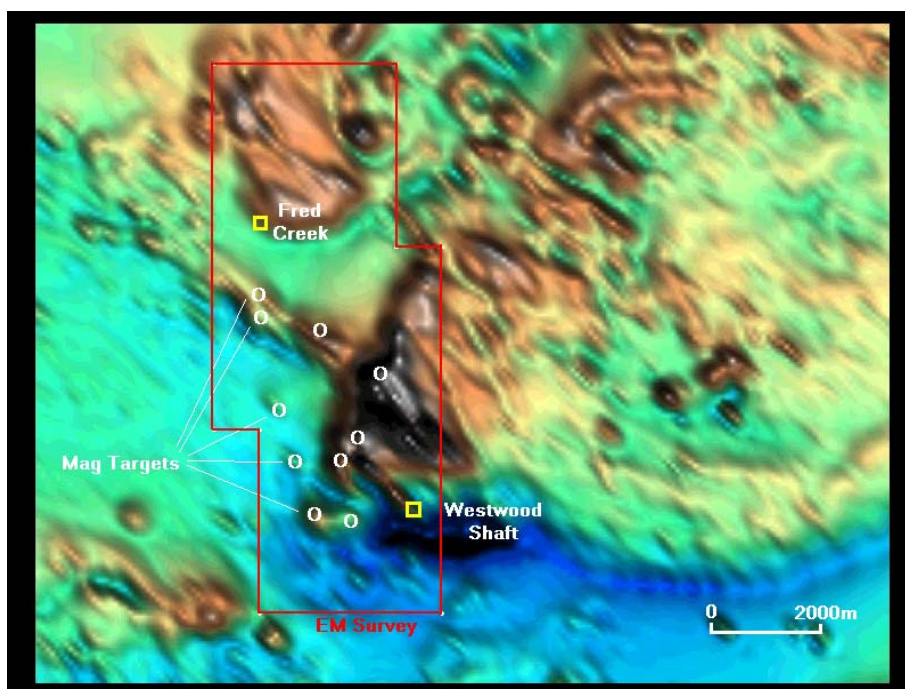


Figure 3 Airborne Magnetic Image showing EM Survey Area

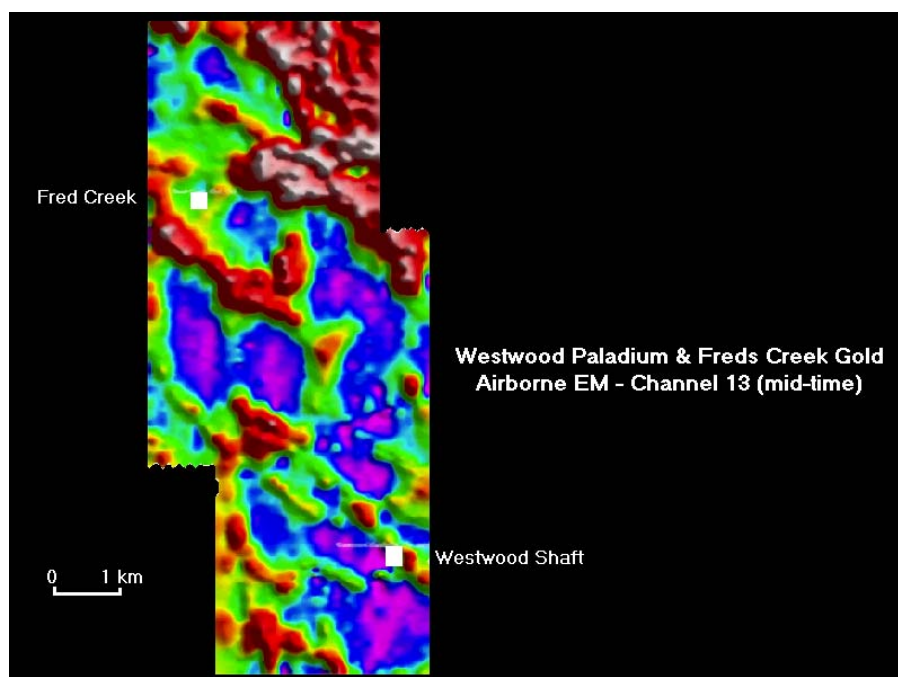


Figure 4 HoistEM Survey Image (Channel 13, mid time)

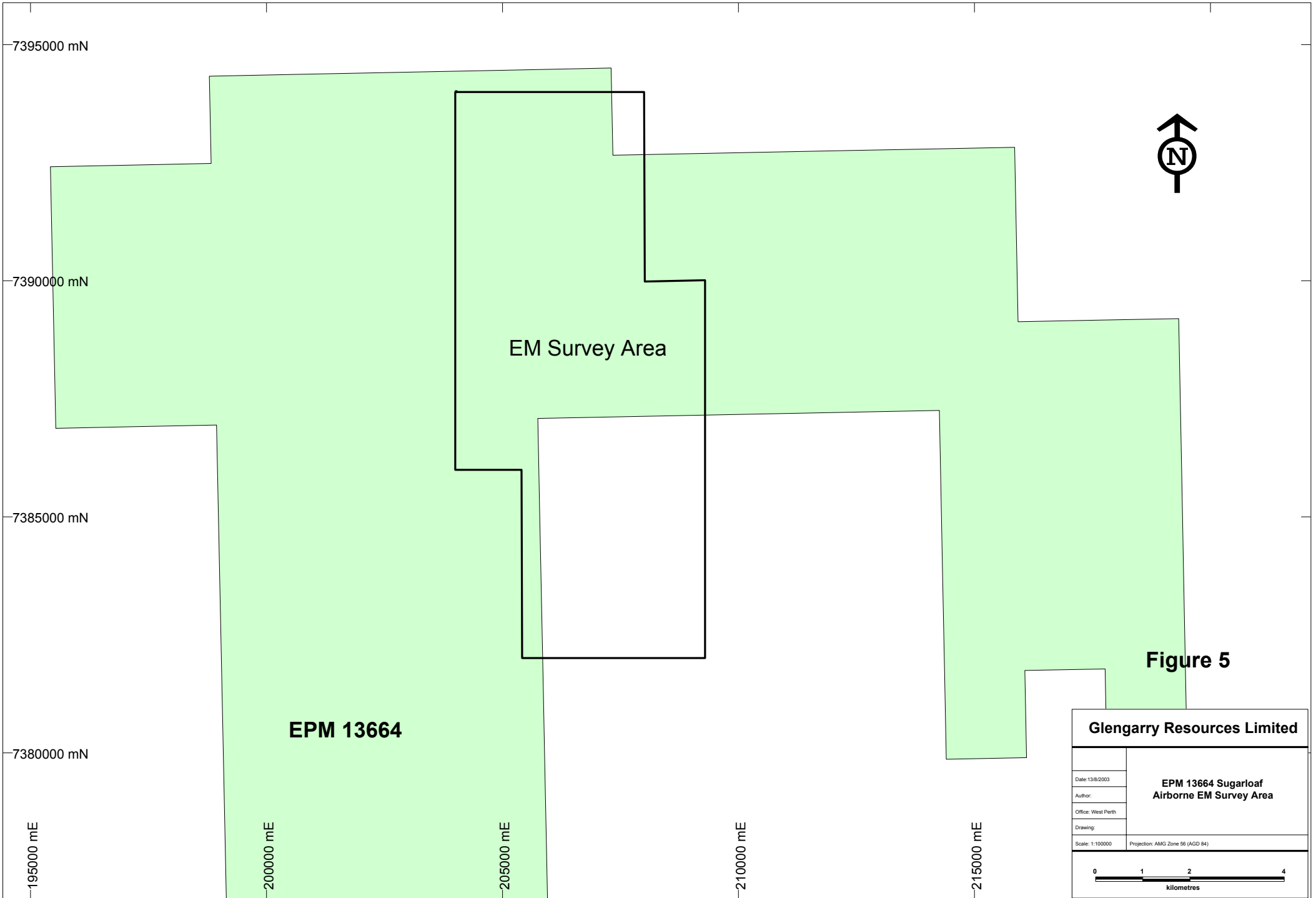


Figure 5

Glengarry Resources Limited	
Date: 13/8/2003	EPM 13664 Sugarloaf Airborne EM Survey Area
Author:	
Office: West Perth	
Drawing:	
Scale: 1:100000	Projection: AMG Zone 56 (AGD 84)
<p>0 1 2 4 kilometres</p>	

6.2 Stream Sediment Sampling

Six stream sediment samples were collected in the Fred Creek prospect area where previous stream sediment sampling by CPM had yielded anomalous Au and Pt values. Both the -80 and + 40 mesh fractions were dispatched to ALS Townsville for analysis of Pt, Pd & Au (method PGM-MS24) as well as Cu, Pb, Zn, Ag, As, Ni, Co, Mo & Bi (method ME-ICP41). Sample locations, assay results and comments are tabled in Appendix 2 and locations are shown in Figure 6.

None of the follow up stream sediment samples were able to confirm the tenor of the earlier CPM samples.

6.3 Soil Sampling

113 -80 mesh soil samples were also collected mostly on a 100 x 100 m grid over the Fred Creek prospect where an earlier imperial grid had been established by CPM. Samples were sent to ALS Townsville and analysed for Au (method AA26) and Ag, As, Cu \pm Ni (method ICP41). CPM had not previously assayed for gold. Sample locations and assay results are tabled in Appendix 3. The grid location is shown in Figure 7 and a copper image in Figure 8 below. Sample locations, sample numbers, Cu and Au assays are plotted in Plan 1.

The copper image shows an area of copper anomalism defined in the northern portion of the grid. The peak copper assay was 463ppm corresponding with the highest gold assay of 0.09 ppm.

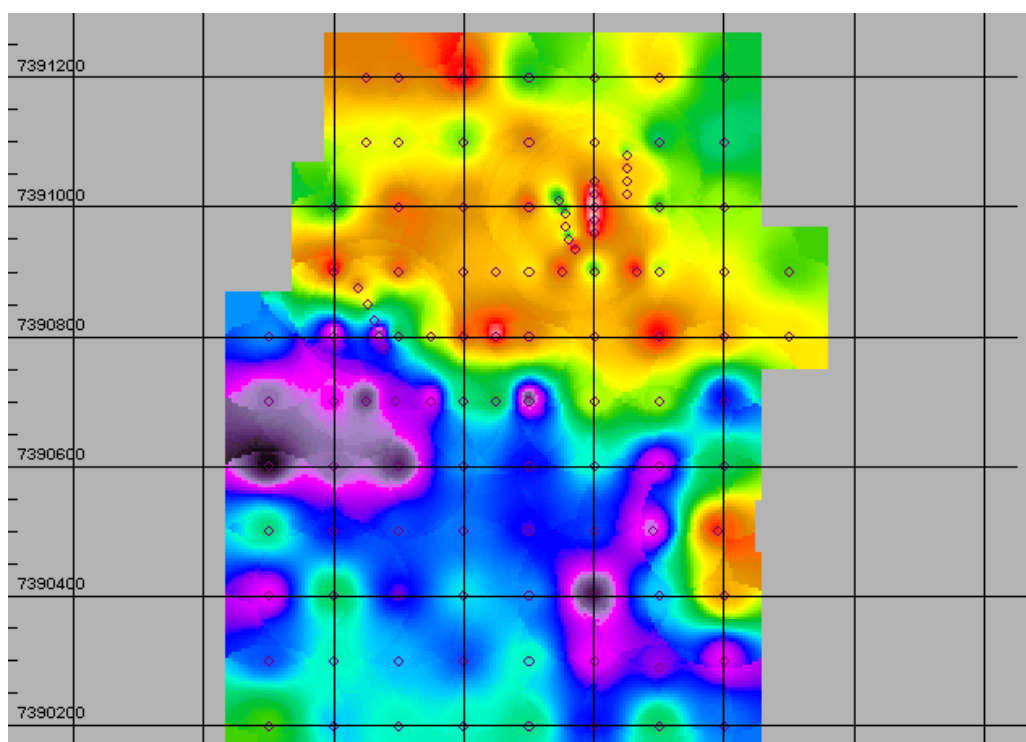


Figure 8 Soil Copper Image

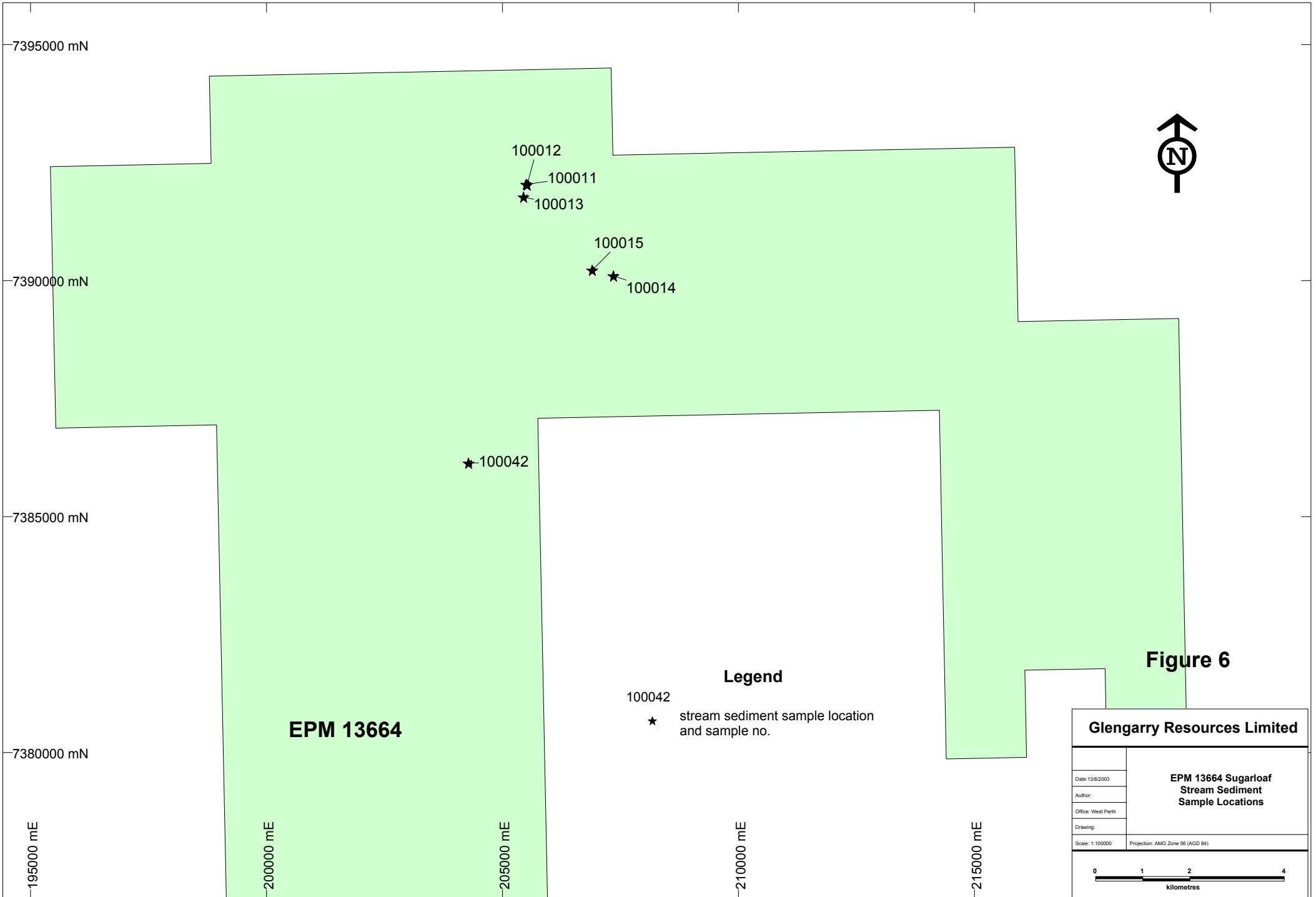
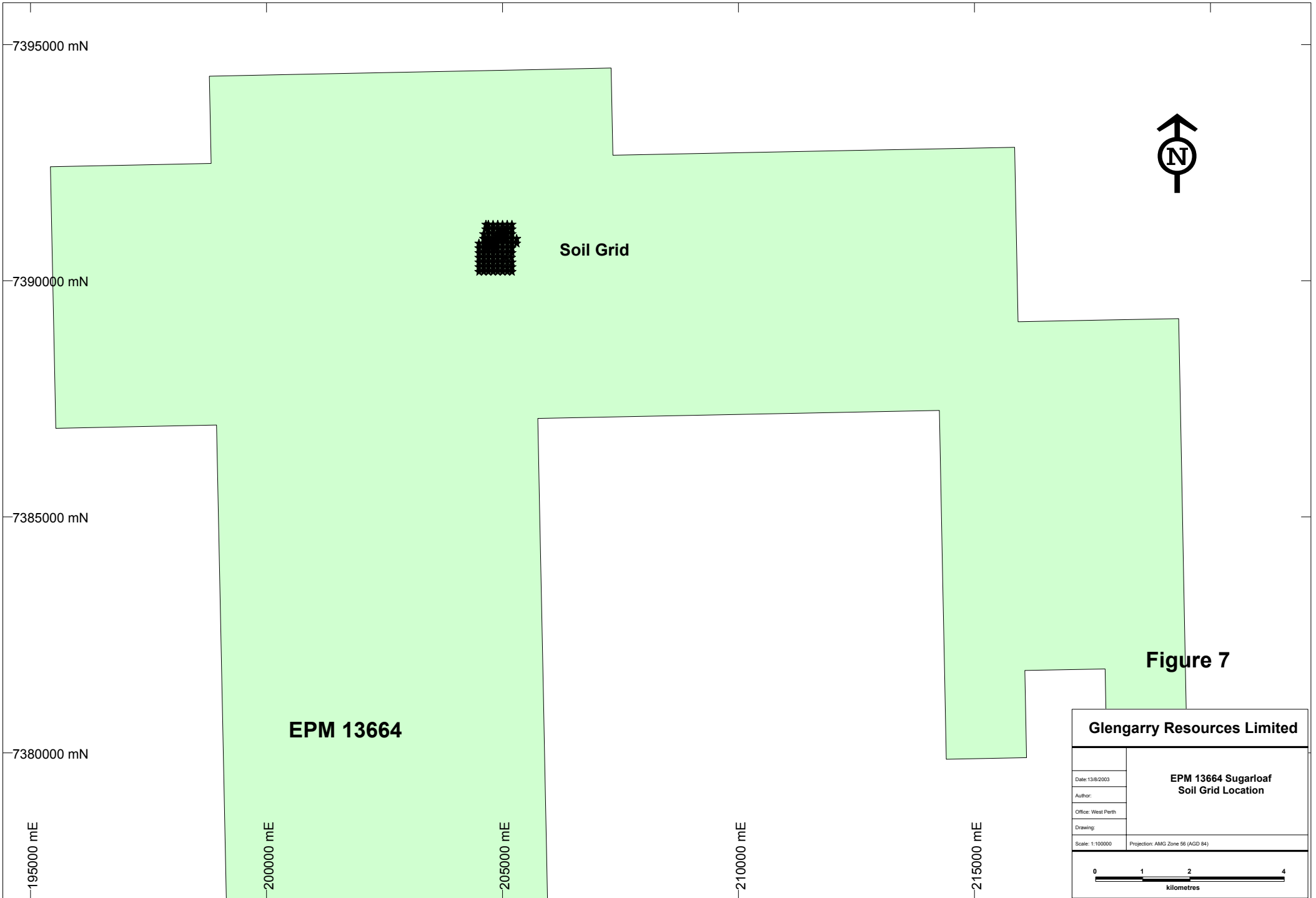


Figure 6

Glengarry Resources Limited	
Date: 13/8/2003 Author: Office: West Perth Drawing: Scale: 1:100000 Projection: AMG Zone 56 (AGD 84)	EPM 13664 Sugarloaf Stream Sediment Sample Locations



6.4 Rock Chip Sampling

Thirty nine generally malachite stained or gossanous rock chip samples were collected mostly from the Fred Creek prospect area and assayed at ALS for Cu, Pb, Zn, Ag, As, Ni, Co, Mo, Bi, Fe, S, Mn, (method ME-ICP41) and Pt, Pd, & Au (method PGM-MS24). Sample locations, assay results and descriptions are tabled in Appendix 4 and locations are shown in Figure 9.

Seven of the thirty nine samples returned copper values greater than 1%, the highest being 12.2% (sample no. 24013). Most of the high Cu assays are also associated with elevated gold values which for the +1% Cu assays are mostly above 2 g/t, the highest being 4.7 g/t in the 12.2% Cu sample.

6.5 Drilling

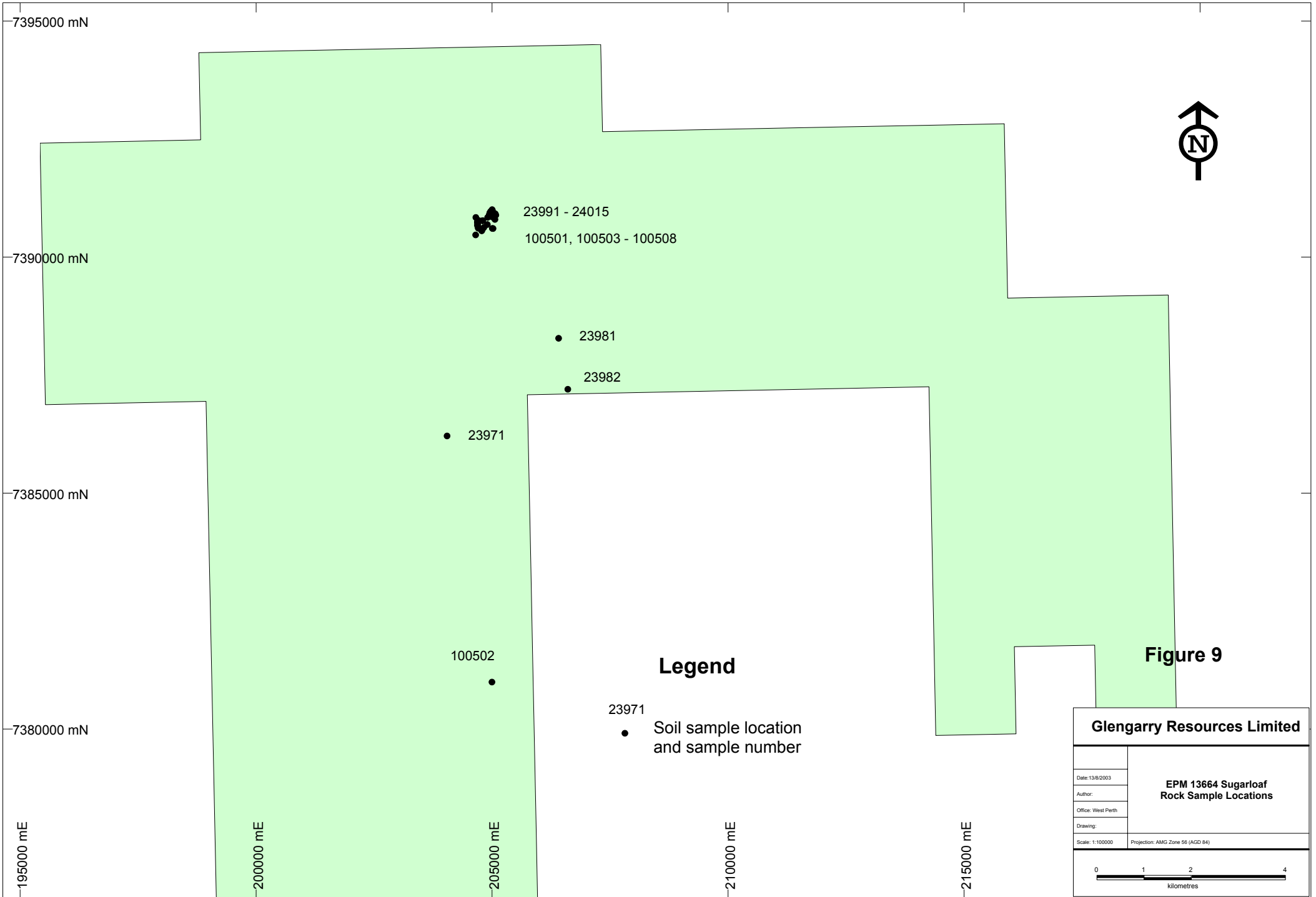
Two RC holes totalling 108m were drilled to test the areas of strongest copper soil anomalism. Drill hole locations are shown in Figure 10 and cross sections in Figures 11 (a) & (b).

The drill holes were sampled in 5m composites and all samples were sent to ALS in Townsville for analysis of Au, Pt & Pd (method PGM-MS2) as well as Ag, Cu, Pb, Zn, Ni, Co, Mo, As, Fe, Mn & S (method ME-ICP41). Drill hole Cu assays in ppm and total PGE's ie. (Pt +Pd +Au) in ppb are displayed on each cross section. Drill hole collar details, assay results and geology are tabulated in Appendices 5 (a) to (c).

The drill holes were targeted at the area of best copper soil anomalism (peak value 463 ppm) in the northern portion of the soil grid, however the best intercepts were only 520 ppm Cu and 87 ppb PGE in separate 5m composites in RC hole 02FCRC01.

7.0 CONCLUSIONS

Although some significant copper and gold assays were obtained from rock chip sampling, overall exploration results suggest there is little potential for economic Cu-PGE mineralisation at the Fred Creek prospect within EPM 13664.



7395000 mN

7390000 mN

7385000 mN

7380000 mN

195000 mE

200000 mE

205000 mE

210000 mE

215000 mE

23991 - 24015
100501, 100503 - 100508

• 23981

• 23982

• 23971

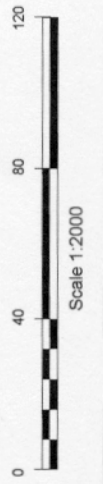
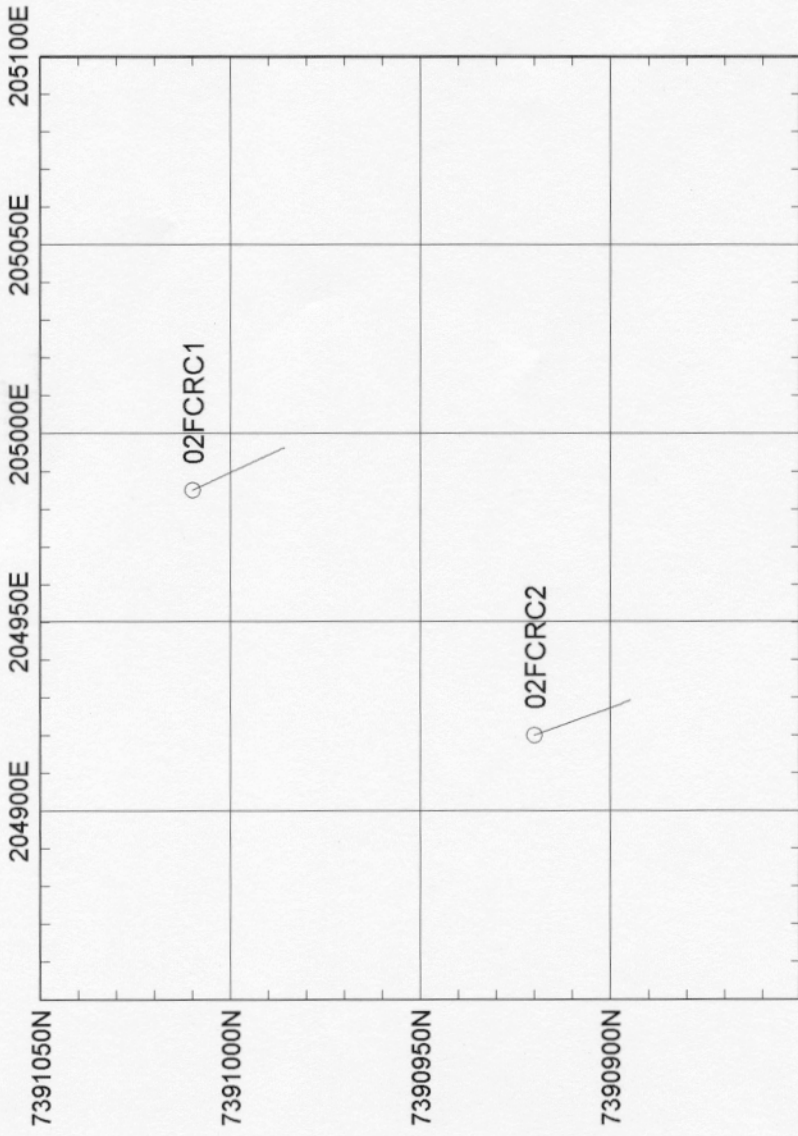
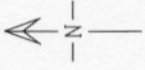
100502

23971
• Soil sample location
and sample number



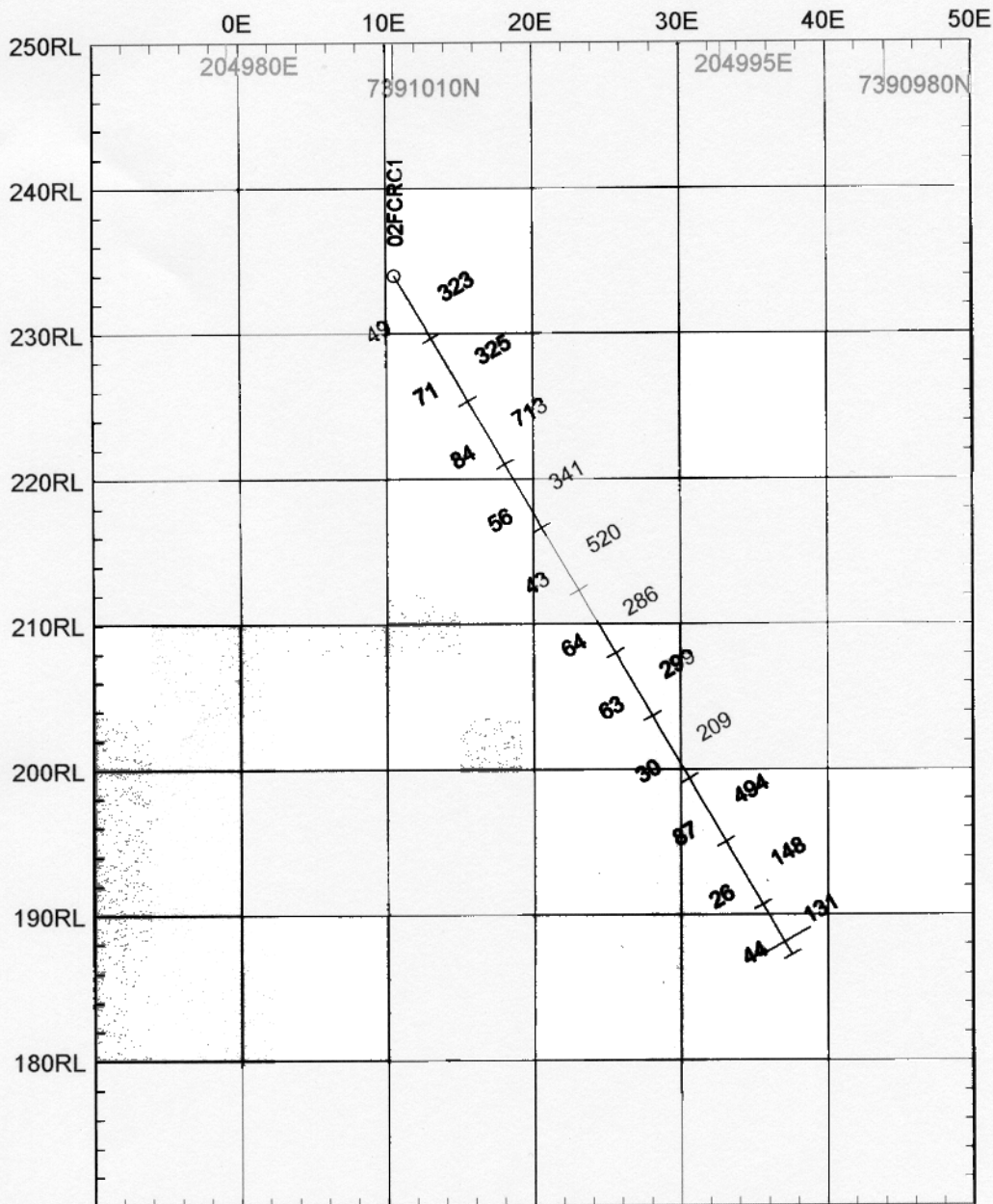
Figure 9

Glengarry Resources Limited	
Date: 13/8/2003	EPM 13664 Sugarloaf Rock Sample Locations
Author:	
Office: West Perth	
Drawing:	
Scale: 1:100000	Projection: AMG Zone 56 (AGD 84)



GLENGARRY RESOURCES LTD
EPM 13664 Sugarloaf
Drill Hole Location Plan

GEC:	SCALE 1:2000	REPORT:
DRAWN:	DATE: 06-08-2003	PLAN: Figure 10



DRILL HOLE LEGEND

LHS Posting : PGE (ppb)

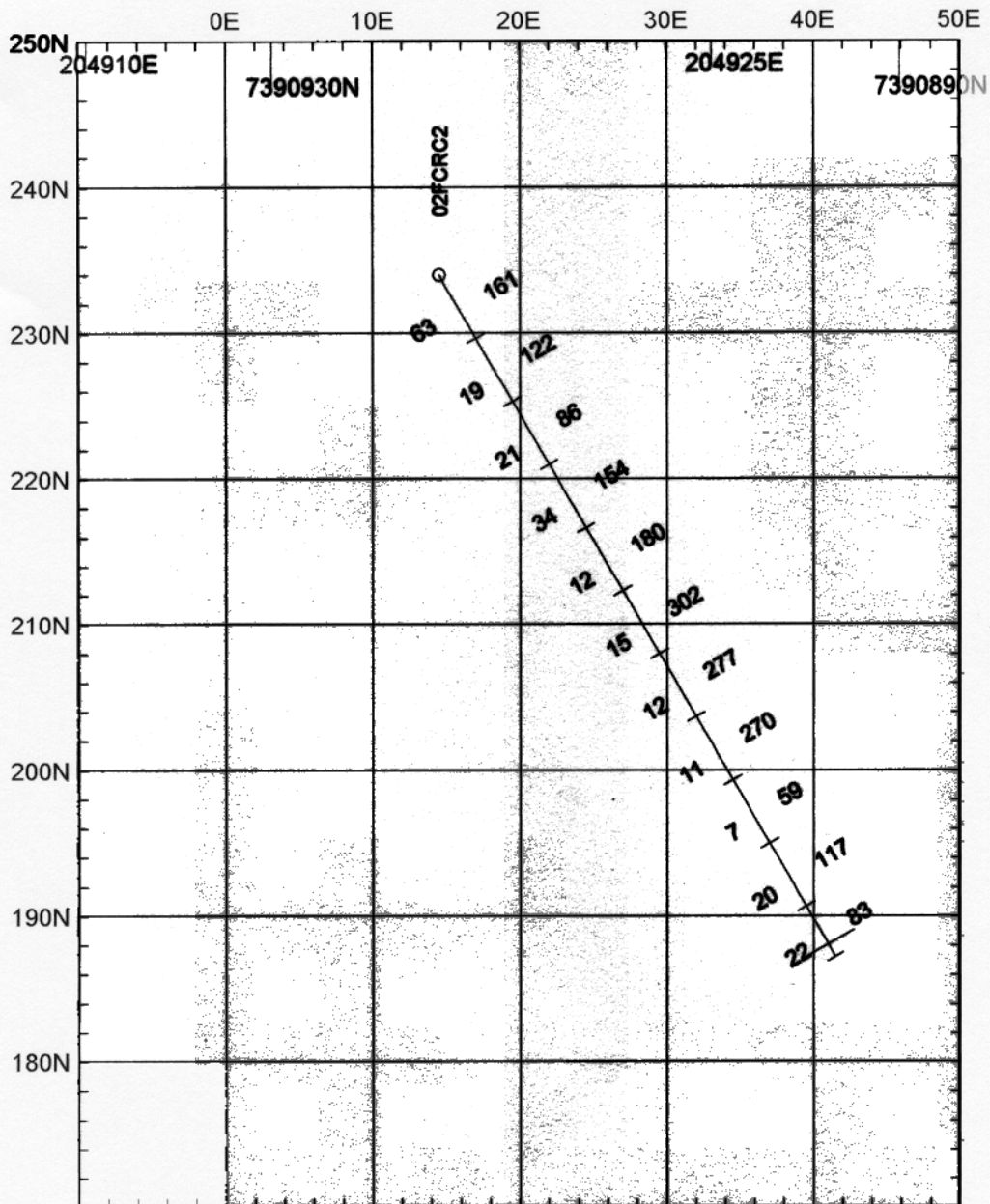
RHS Posting : Cu (ppm)



GLENGARRY RESOURCES LTD

EPM 13664 Sugarloaf
Cross Section Through RC Hole 1

GEO:	SCALE 1:500	REPORT:
DRAWN:	DATE: 06-08-2003	PLAN: <i>fig 11(a)</i>



DRILL HOLE LEGEND

LHS Posting : PGE (ppb)
 RHS Posting : Cu (ppm)

GLENGARRY RESOURCES LTD

**EPM 13664 Sugarloaf
 Cross Section Through RC Hole 2**

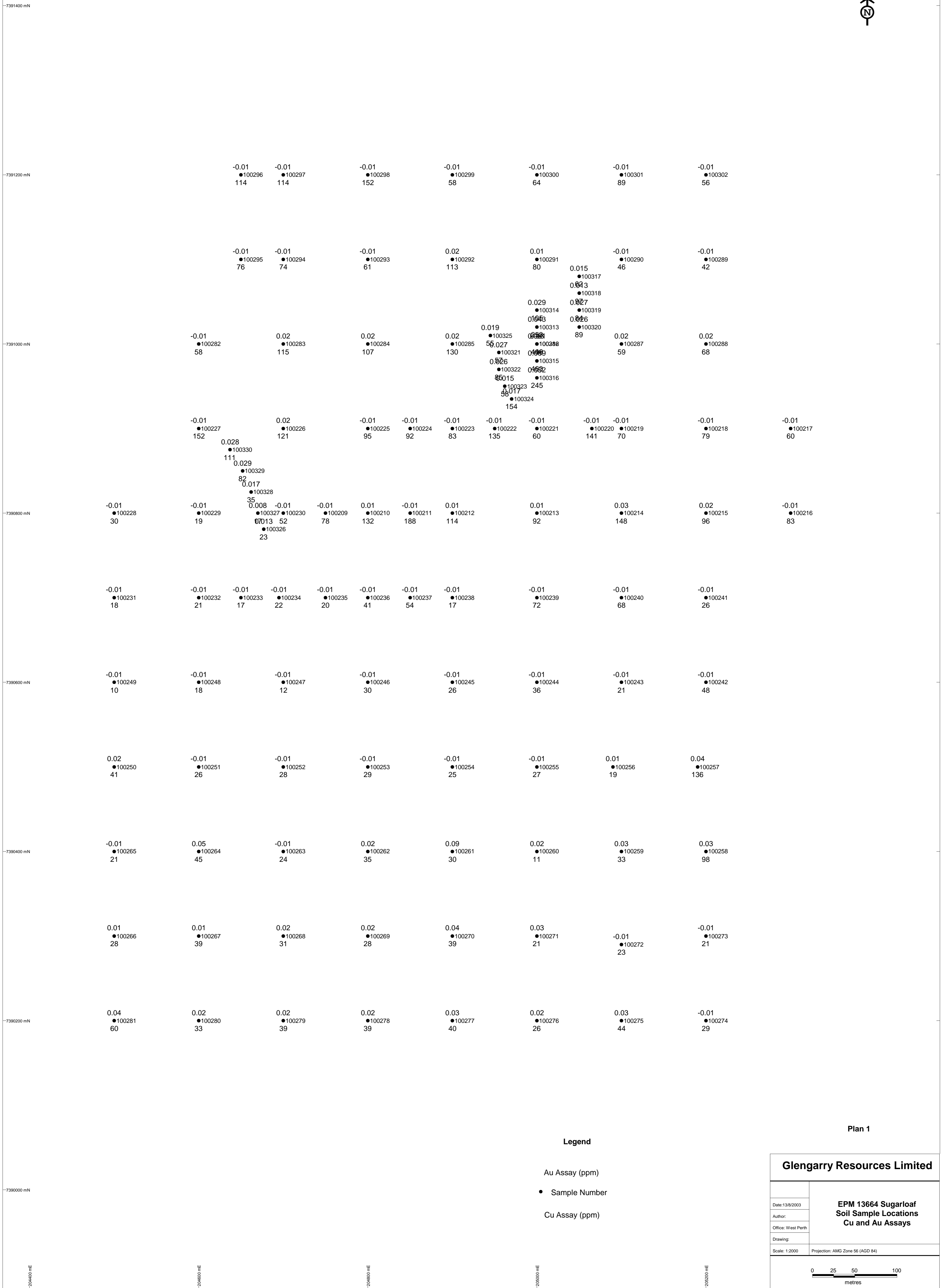
GEO:	SCALE 1:500	REPORT:
DRAWN:	DATE: 06-08-2003	PLAN: Fig. 11(b)



Scale 1:500

8.0 REFERENCES

Clifford M. J., 1987. Geology of the Westwood Layered Gabbro and Associated Copper, Palladium and Platinum Mineralisation. Honours Thesis JCU.



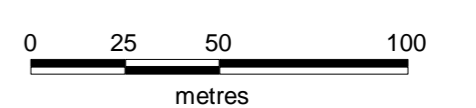
Plan 1

Legend

- Sample Number
- Au Assay (ppm)
- Cu Assay (ppm)

Glengarry Resources Limited

Date: 13/8/2003	EPM 13664 Sugarloaf Soil Sample Locations Cu and Au Assays
Author:	
Office: West Perth	
Drawing:	
Scale: 1:2000	Projection: AMG Zone 56 (AGD 84)



APPENDIX 1
Airborne Geophysical Survey
Mt Morgan Area, WA

March 2002
Survey Operations and Logistics Report
For
Glengarry Resources Ltd

Survey Flown by:



GPX Airborne Pty Ltd.

GPX Airborne

HoistEM (MkII) Survey

Client: Glengarry Resources Ltd

Job Number: 2107

Survey Area: Mt Morgan Area, WA

Survey Information

Date: Sat 23rd March – Mon 25th March

Line km surveyed: 309

System Crew:

2 Pilots

1 Geophysicist / Data Processor

1 Ground crew (the second pilot acted as the extra person in launching/landing of the system)

Survey Comments

1. GPS base was established at a fence near launch – 210m entered into the base.
2. Sat 23rd March (first half of Fred Creek area) was a very windy day, with thunderheads developing.

HoistEM System Specifications

TRANSMITTER

WAVEFORM:	Square Wave
PULSE ON TIME:	5 MilliSecs
PULSE OFF TIME:	15 MilliSecs
PULSE CURRENT:	320 Amps
SWITCH ON RAMP:	1 MilliSec
SWITCH OFF RAMP:	40 MicroSecs
TX LOOP AREA:	375 Square Metres
TX NIA:	120,000
TX FREQUENCY:	25 Hz

RECEIVER

A-D CIRCUITRY:	20 bit
SAMPLING:	128 Linear channels
SAMPLE TIME:	0 - 15 MilliSecs after switchoff

RECEIVER COIL

EFFECTIVE NA:	10,000 Square Metres
BANDWIDTH:	45,000 Hz

GEOMETRY

Transmitter loop is towed 30 m below helicopter- Receiver coil is located at centre of Tx loop.

Transmitter / Receiver at nominal 30 m terrain clearance.

Helicopter survey speed is between 35 and 45 knots.

Along line sample interval is between 8 and 10 metres

SURVEY SPECIFICATIONS AND PARAMETERS

Survey Boundaries

Fred Creek Area

Coordinates in AGD84 Zone 56 define an area to be covered at 200m line spacing flown N-S

AMG Easting	AMG Northing
204000	7394000
208000	7394000
208000	7390000
209300	7390000
209300	7382000
205400	7382000
205400	7386000
204000	7386000

Westwood Area

Coordinates in AGD84 Zone 56 define an area to be covered at 200m line spacing flown E-W

AMG Easting	AMG Northing
206300	7386000
209300	7386000
209300	7383000
206300	7383000

DATA PROCESSING SUMMARY

The following processes were carried out at the field processing office:

- Spline removal of birdswing
- Negative decays reversed
- Outlier rejection filter
- Simple average over ½ second
- Preliminary gridding and data verification

Gridding

Resistivity values (in ohm metres) and depth values were calculated from the raw EM channels, after initial processing, using Perry Eaton's TEMINP algorithm. Resistivity depth slices were then produced using Geosoft.

The TEMINP algorithm works by first converting the recorded voltages to a step response and then fitting the calculated values with the response to a smoke ring image for each channel. By calculating the velocity of the smoke ring it is possible to derive the resistivity of the equivalent half-space.

Calculated Z values for Conductivity Depth Images (CDIs) are based on an RL. Values are first calculated at a depth below surface, and then the DEM is used to convert the depth below surface to a height above the WGS84 spheroid.

Final profile and CDI presentation was completed using Geosoft by G Integrated Solutions Pty Ltd.

TEMINP References:

Eaton, P. 1998: Application of an improved technique for interpreting transient electromagnetic data. *Exploration Geophysics* V29, p175-183.

Eaton, P and Hohmann, G. 1989: A rapid inversion technique for transient electromagnetic soundings. *Physics of the Earth and Planetary Interiors*. V53, p384-404.

Digital Elevation Model

The laser altimeter data, plus a constant of 32, was subtracted from the GPS height to give a digital elevation model which represents height above the WGS84 spheroid.

Located Data Format

Line Number

Easting AGD84 Zone 56

Northing AGD84 Zone 56

GPS altitude Metres

Laser Altimeter Tx/Rx altitude in metres

	Radar Altimeter	Helicopter altitude in feet
Digital Elevation Model	Metres above WGS84 spheroid	

Current (I) Amperes

Raw EM channels 1-27 microvolts

No parallax corrections have been applied to the data.

<u>CONTENTS OF FINAL CD</u>	
\Final LDT	Located Data file (Fred_Creek_Final_LDT.xyz, Westwood_Final_LDT.xyz, format above)
\MAP files	Linear & Pseudolog EM profiles, Conductivity Depth Images and Digital Elevation for each line, in Geosoft .MAP format
\PDFs	Resistivity Depth Slices Raw EM Response, channels 4 & 23 (Fred Creek), ch 1, 5, 13 & 18 (Westwood) scale 1:10,000 PDF of Digital Elevation Model, scale 1:10,000
\Raw Data	Raw ASCII 121 channel database

Appendix 2

Stream Sediment Sample Locations and Assay Results

Appendix 2: EPM 13664 Stream Sediment Sample Locations and Assay Results

Sampler: P.Rea / P.Szabo

Sample	AMG_N	AMG_E	Cu	Pb	Zn	Ag	As	Ni	Co	Mo	Bi	Pt	Pd	Au	Stream	Geology/Outcrop	Mesh	Comments
	AGD-66		ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	(flow and width)	(rock type, structure etc)	(eg: -2mm)	
			ME-ICP41		ME-ICP41		ME-ICP41		ME-ICP41			PGM-MS24		PGM-M				
100011	7392040	205500	70	-2	42	-0.2	-2	58	37	2	-2	0.0131	0.006	0.006	Breakaway,3m	Andesite?	-80	55 ppb Pt repeat
100012	7392030	205522	57	-2	44	0.2	-2	84	44	-1	-2	0.0137	0.005	0.006	Mod, 3m	Andesite and pyroxenite	-80	Main creek
100013	7391770	205445	69	-2	41	-0.2	-2	85	43	1	-2	0.0324	0.007	0.008	Mod, 2m	Coarse pyroxenite	-80	38 ppb Pt repeat
100014	7390100	207350	45	5	44	-0.2	23	23	16	1	-2	0.002	0.001	0.013	Fast, 3m	Foliated andesite	-80	70 ppb Au repeat
100015	7390220	206900	44	5	55	-0.2	21	18	13	2	-2	0.0021	0.002	0.019	Fast, 1.5m	Foliated andesite	-80	230 ppb Au repeat
100011	7392040	205500	103	-2	45	-0.2	2	71	46	-1	-2	0.0159	0.007	0.006	Breakaway	Andesite?	+40	55 ppb repeat Pt
100012	7391750	205450	43	-2	27	0.3	-2	71	34	-1	-2	0.0241	0.007	0.003	Mod, 3m	Andesite and pyroxenite	+40	Main creek
100013	7391770	205445	71	-2	32	-0.2	-2	71	38	-1	-2	0.0265	0.009	0.005	Mod, 2m	Coarse pyroxenite	+40	38 ppb Pt repeat
100014	7390100	207350	44	5	49	0.2	27	26	17	2	2	0.0018	0.001	0.004	Fast, 3m	Foliated andesite	+40	70 ppb au repeat
100015	7390220	206900	31	3	48	-0.2	20	15	10	1	-2	0.0016	0.001	0.005	Fast, 1.5m	Foliated andesite	+40	230 ppb Au repeat
100042	7386132	204279	67	-2	65	-0.2	3	31	33	1	-2	0.001	0.002	0.006	Mod, 2m	Basalt	-80	270 ppb Au repeat

Appendix 3

Soil Sample Locations and Assay Results

Appendix 3: EPM 13664 Soil Sample Locations and Assay Results

Sampler: P.Rea / P.Szabo

Sample No	AMG_N	AMG_E	Au	Cu	Ag	As	Ni	Topography	Regolith	Sample Components in %	Lag Develop	Geology/Outcrop	Mesh	Comments
	AGD-84		AA26	ICP41	ICP41	ICP41	ICP41	(flat, gentle/ steep slope)	(fresh, weathered, laterite, etc)	(eg: 35% quartz, 40% ironstone vein, 25% sandstone fragments)	(extensive, good, moderate, poor)	(rock type, structure etc)		
			ppm	ppm	ppm	ppm	ppm							
100209	7390800	204750	-0.01	78	-0.2	-2	27	S slope	Weathered	Red brown soil 60%, 40% rock	Poor	Microgabbro	-80#	
100210	7390800	204800	0.01	132	-0.2	-2	30	S slope	Weathered 1ft	Red brown soil and 60% gravel	Poor	Meso to Hbe gabbro	-80#	Micro leucogabbro dykes
100211	7390800	204850	-0.01	188	-0.2	-2	31	S slope	Weathered	Red brown soil 60%, 40% rock	Poor	Hornblende gabbro	-80#	
100212	7390800	204900	0.01	114	-0.2	-2	63	E slope	Weathered 1ft	Red brown soil and 60% gravel	Poor	Meso to Hbe gabbro	-80#	4mm Hornblende veins
100213	7390800	205000	0.01	92	-0.2	-2	53	S slope	Weathered 1ft	Red brown soil and 60% gravel	Poor	Microgabbro / dolerite	-80#	Pale green trachyte (with
100214	7390800	205100	0.03	148	-0.2	-2	58	SE slope	Weathered 1ft	Red brown soil 50%, 60% rock	Poor	Hornblende gabbro o/c	-80#	20% 1mm plagioclase}
100215	7390800	205200	0.02	96	-0.2	-2	34	E slope	Weathered	Red brown soil 80%, 20% rock	Poor	Alkali granite dyke	-80#	Crs meso gabbro
100216	7390800	205300	-0.01	83	-0.2	-2	33	E slope	Weathered	Red brown soil 70%, 30% rock	Poor	Crs gabbro and	-80#	dolerite dykes
100217	7390900	205300	-0.01	60	-0.2	-2	42	S slope	Fresh	60% soil, 40% rock	Poor	Crs mesogabbro	-80#	1ft dolerite dykes, Az 265
100218	7390900	205200	-0.01	79	-0.2	-2	28	SE slope	Fresh	60% soil, 40% rock	Poor	Crs mesogabbro	-80#	
100219	7390900	205100	-0.01	70	-0.2	-2	20	S slope	Fresh	70% soil, 30% rock	Poor	Crs mesogabbro	-80#	dolerite dykes
100220	7390900	205065	-0.01	141	-0.2	-2	40	S slope	Weathered	60% soil, 40% rock	Poor	Crs gabbro & Cu float	-80#	gossan float
100221	7390900	205000	-0.01	60	-0.2	2	82	N slope	Fresh	70% soil, 30% gravel	Poor	Crs mesogabbro	-80#	hbe dolerite
100222	7390900	204950	-0.01	135	-0.2	-2	75	Hill top E	Fresh	40% soil, 60% gravel	Poor	Crs Hornblende gabbro	-80#	Sheared and altered
100223	7390900	204900	-0.01	83	-0.2	-2	40	Hill top	Fresh	80% soil, 20% rock	Poor	Crs mesogabbro	-80#	
100224	7390900	204850	-0.01	92	-0.2	-2	33	Hill top E	Fresh	90% black soil	Poor	Plagioclase dolerite	-80#	and Hbe gabbro
100225	7390900	204800	-0.01	95	-0.2	-2	44	W slope	Weathered	90% soil, 10% rock	Poor	Dolerite and Crs gabbro	-80#	
100226	7390900	204700	0.02	121	-0.2	-2	43	W slope	Weathered	90% soil, 10% rock	Poor	Gabbro ?	-80#	
100227	7390900	204600	-0.01	152	-0.2	-2	41	W slope	Weathered	90% soil, 10% rock	Poor	Soil ?	-80#	
100228	7390800	204500	-0.01	30	-0.2	6	13	Gentle W slope	Fresh	60% sandy grey soil, 40% rock	Poor	fg yellow wed dolerite	-80#	
100229	7390800	204600	-0.01	19	-0.2	9	11	Base of hill, N	Fresh	40% sandy grey soil, 60% rock	Poor	fg yellow wed dolerite	-80#	
100230	7390800	204700	-0.01	52	-0.2	3	25	Saddle, E Ck	Fresh	60% sandy grey soil, 40% rock	Poor	Weathered gabbro	-80#	
100231	7390700	204500	-0.01	18	-0.2	13	11	W base of hill	Fresh	Grey soil and 30% rocks	Poor	Metabasalt	-80#	
100232	7390700	204600	-0.01	21	-0.2	8	16	NW slope	Fresh	Grey soil and 70% rocks	Poor	Green metabasalt	-80#	150 strike, 70 W dip
100233	7390700	204650	-0.01	17	-0.2	8	11	N slope of hill	Fresh	Grey soil and 70% rocks	Poor	Green metabasalt	-80#	
100234	7390700	204695	-0.01	22	-0.2	9	16	N slope of hill	Fresh	Yellow brown soil, 60% rocks	Poor	Metabasalt	-80#	
100235	7390700	204750	-0.01	20	-0.2	6	9	N slope of hill	Weathered	Grey brown soil, 20% rocks	Poor	Metabasalt	-80#	
100236	7390700	204800	-0.01	41	-0.2	7	10	NE slope of hill	Weathered	Yellow brown soil, 20% rocks	Poor	Metabasalt	-80#	
100237	7390700	204850	-0.01	54	-0.2	13	21	Top Ck bank	Weathered	Red soil and SZ fragments	Poor	Gabbro and dolerite	-80#	Alluvial diggings?
100238	7390700	204900	-0.01	17	-0.2	10	11	S bank of Ck	Fresh	Red soil after metabasalt	Poor	Foliated metabasalt	-80#	

Appendix 3: EPM 13664 Soil Sample Locations and Assay Results

Sampler: P.Rea / P.Szabo

Sample	AMG_N	AMG_E	Au	Cu	Ag	As	Ni	Topography	Regolith	Sample Components in %	Lag Develop	Geology/Outcrop	Mesh	Comments
100239	7390700	205000	-0.01	72	-0.2	-2	28	Gentle S slope	Weathered	Brown clay and soil 100%	Poor	Gabbro ?	-80#	
100240	7390700	205100	-0.01	68	-0.2	6	26	W side of Ck	Fresh	Brown clay	Poor	Gabbro in Ck	-80#	
100241	7390700	205200	-0.01	26	-0.2	4	9	S of Ck flat	Fresh	Brown sandy clay	Poor	Gabbro	-80#	basalt xenoliths
100242	7390600	205200	-0.01	48	-0.2	3	11	W of Ck	Weathered	Brown sandy clay	Poor	Metabasalt and gabbro	-80#	
100243	7390600	205100	-0.01	21	-0.2	6	8	Ck flat	Weathered	Grey soil and 30% rocks	Poor	Metabasalt and gabbro	-80#	
100244	7390600	205000	-0.01	36	-0.2	21	16	N slope	Fresh	Yellow brown soil, 60% rocks	Poor	Metabasalt scree	-80#	gabbro in Ck below
100245	7390600	204900	-0.01	26	-0.2	8	8	N slope	Fresh	Grey soil and 70% rocks	Poor	Foliated metabasalt	-80#	Scree?
100246	7390600	204800	-0.01	30	-0.2	28	22	NE slope of hill	Fresh	Grey soil and 70% rocks	Poor	Foliated metabasalt	-80#	minor chalcedony bx
100247	7390600	204700	-0.01	12	-0.2	7	10	Hill top	Fresh	Grey soil and 80% rocks	Poor	Foliated metabasalt	-80#	subcrop, plag textured
100248	7390600	204600	-0.01	18	-0.2	7	11	W side Hill	Fresh	Grey soil and 80% rocks	Poor	Foliated metabasalt	-80#	
100249	7390600	204500	-0.01	10	-0.2	4	6	W base of hill	Fresh	Grey soil and 40% rocks	Poor	Foliated metabasalt	-80#	Scree
100250	7390500	204500	0.02	41	-0.2	5	29	W slope	Weathered	100% soil	Poor		-80#	
100251	7390500	204600	-0.01	26	-0.2	11	19	W slope	Fresh	50% soil, 50% rocks	Poor	Foliated metabasalt	-80#	
100252	7390500	204700	-0.01	28	-0.2	15	23	S slope	Fresh	soil and 30% gravel	Poor	Foliated metabasalt	-80#	
100253	7390500	204800	-0.01	29	-0.2	23	16	E slope	Fresh	50% soil, 50% rocks	Poor	Foliated metabasalt	-80#	
100254	7390500	204900	-0.01	25	-0.2	19	16	E slope	Fresh	50% soil, 50% rocks	Poor	Foliated metabasalt	-80#	
100255	7390500	205000	-0.01	27	-0.2	7	15	E slope	Weathered	70% clay	Poor		-80#	
100256	7390500	205090	0.01	19	-0.2	12	12	E slope	Weathered	70% soil	Poor		-80#	
100257	7390500	205190	0.04	136	-0.2	-2	14	N slope	Weathered	70% soil	Poor		-80#	
100258	7390400	205200	0.03	98	-0.2	2	14	E slope	Weathered	70% soil	Poor		-80#	
100259	7390400	205100	0.03	33	-0.2	4	12	W slope	Fresh	30% o/c	Poor	Foliated metabasalt	-80#	
100260	7390400	205000	0.02	11	-0.2	2	4	E slope	Fresh	50% gravel	Poor	Foliated metabasalt	-80#	
100261	7390400	204900	0.09	30	-0.2	9	18	N slope	Fresh	50% o/c	Poor	Foliated metabasalt	-80#	
100262	7390400	204800	0.02	35	-0.2	12	18	E slope	Fresh	90% rock	Poor	Foliated metabasalt	-80#	
100263	7390400	204700	-0.01	24	-0.2	29	13	SW slope	Fresh	90% rock	Poor	Foliated metabasalt	-80#	
100264	7390400	204600	0.05	45	-0.2	10	20	NE slope	Fresh	50% o/c	Poor	Foliated metabasalt	-80#	
100265	7390400	204500	-0.01	21	-0.2	4	15	N slope	Fresh	50% rock	Poor	Foliated metabasalt	-80#	
100266	7390300	204500	0.01	28	-0.2	11	17	W slope	Fresh	60% gravel	Poor	Foliated metabasalt	-80#	
100267	7390300	204600	0.01	39	-0.2	12	24	E slope	Fresh	60% gravel	Poor	Foliated metabasalt	-80#	
100268	7390300	204700	0.02	31	-0.2	9	24	N slope	Fresh	70% gravel	Poor	Foliated metabasalt	-80#	
100269	7390300	204800	0.02	28	-0.2	6	18	E slope	Fresh	80% o/c	Poor	Foliated metabasalt	-80#	

Appendix 3: EPM 13664 Soil Sample Locations and Assay Results

Sampler: P.Rea / P.Szabo

Sample	AMG_N	AMG_E	Au	Cu	Ag	As	Ni	Topography	Regolith	Sample Components in %	Lag Develop	Geology/Outcrop	Mesh	Comments
100270	7390300	204900	0.04	39	-0.2	10	26	N slope	Fresh	80% o/c	Poor	Foliated metabasalt	-80#	
100271	7390300	205000	0.03	21	-0.2	12	16	N slope	Fresh	90% gravel	Poor	Foliated metabasalt	-80#	
100272	7390290	205100	-0.01	23	-0.2	15	22	W slope	Fresh	90% o/c	Poor	Foliated metabasalt	-80#	
100273	7390300	205200	-0.01	21	-0.2	8	14	E slope	Fresh	90% scree	Poor	Foliated metabasalt	-80#	
100274	7390200	205200	-0.01	29	-0.2	11	20	E slope	Fresh	90% o/c	Poor	Foliated metabasalt	-80#	
100275	7390200	205100	0.03	44	-0.2	13	29	N slope	Fresh	90% o/c	Poor	Foliated metabasalt	-80#	
100276	7390200	205000	0.02	26	-0.2	7	14	N slope	Fresh	70% rock	Poor	Foliated metabasalt	-80#	
100277	7390200	204900	0.03	40	-0.2	7	22	E slope	Fresh	70% scree	Poor	Foliated metabasalt	-80#	
100278	7390200	204800	0.02	39	-0.2	7	25	E slope	Fresh	80% o/c	Poor	Foliated metabasalt	-80#	
100279	7390200	204700	0.02	39	-0.2	13	39	W slope	Fresh	90% broken rock	Poor	Foliated metabasalt	-80#	
100280	7390200	204600	0.02	33	-0.2	4	23	E slope	Fresh	80% scree	Poor	Foliated metabasalt	-80#	
100281	7390200	204500	0.04	60	-0.2	8	28	E slope	Fresh	80% scree	Poor	Foliated metabasalt	-80#	
100282	7391000	204600	-0.01	58	-0.2	-2	17	W slope	Fresh	80% gravel	Poor	Gabbro, and dykes	-80#	Trachyte and dolerite
100283	7391000	204700	0.02	115	-0.2	-2	40	W slope	Fresh	70% o/c	Poor	Gabbro, and dykes	-80#	Trachyte and dolerite
100284	7391000	204800	0.02	107	-0.2	-2	29	W slope	Weathered	80% soil	Poor	Gabbro, and dykes	-80#	Trachyte and dolerite
100285	7391000	204900	0.02	130	-0.2	2	79	W slope	Weathered	70% soil	Poor	Gabbro, and dykes	-80#	Trachyte and dolerite
100286	7391000	205000	0.06	406	-0.2	2	35	Ridge top	Fresh	70% o/c	Poor	Gabbro, and dykes	-80#	Trachyte and dolerite
100287	7391000	205100	0.02	59	-0.2	-2	19	Ridge top	Fresh	90% o/c	Poor	Gabbro, and dykes	-80#	Trachyte and dolerite
100288	7391000	205200	0.02	68	-0.2	-2	36	S slope	Fresh	80% o/c	Poor	Gabbro, and dykes	-80#	Trachyte and dolerite
100289	7391100	205200	-0.01	42	-0.2	-2	31	S ridge top	Weathered	80% soil	Poor	Gabbro, and dykes	-80#	Trachyte and dolerite
100290	7391100	205100	-0.01	46	-0.2	-2	28	N slope	Fresh	80% rock	Poor	Gabbro, and dykes	-80#	Trachyte and dolerite
100291	7391100	205000	0.01	80	-0.2	-2	55	Ridge top	Fresh	50% soil	Poor	Gabbro, and dykes	-80#	Trachyte and dolerite
100292	7391100	204900	0.02	113	-0.2	-2	57	W slope	Weathered	70% soil	Poor	Gabbro, and dykes	-80#	Trachyte and dolerite
100293	7391100	204800	-0.01	61	-0.2	-2	25	W slope	Weathered	80% soil	Poor	Gabbro, and dykes	-80#	Trachyte and dolerite
100294	7391100	204700	-0.01	74	-0.2	-2	19	W slope	Weathered	80% clay	Poor	Gabbro, and dykes	-80#	Trachyte and dolerite
100295	7391100	204650	-0.01	76	-0.2	-2	19	W bank	Weathered	90% clay	Poor	Gabbro, and dykes	-80#	Trachyte and dolerite
100296	7391200	204650	-0.01	114	-0.2	-2	30	W bank	Weathered	90% clay	Poor	Gabbro, and dykes	-80#	Trachyte and dolerite
100297	7391200	204700	-0.01	114	-0.2	-2	35	W slope	Weathered	90% soil	Poor	Gabbro, and dykes	-80#	Trachyte and dolerite
100298	7391200	204800	-0.01	152	-0.2	-2	43	W slope	Weathered	90% black clay	Poor	Gabbro, and dykes	-80#	Trachyte and dolerite
100299	7391200	204900	-0.01	58	-0.2	-2	41	W slope	Fresh	60% o/c	Poor	Gabbro, and dykes	-80#	Trachyte and dolerite
100300	7391200	205000	-0.01	64	-0.2	-2	53	Ridge top	Weathered	90% soil	Poor	Gabbro, and dykes	-80#	Trachyte and dolerite

Appendix 3: EPM 13664 Soil Sample Locations and Assay Results

Sampler: P.Rea / P.Szabo

Sample	AMG_N	AMG_E	Au	Cu	Ag	As	Ni	Topography	Regolith	Sample Components in %	Lag Develop	Geology/Outcrop	Mesh	Comments
100301	7391200	205100	-0.01	89	-0.2	-2	42	E slope	Weathered	90% soil	Poor	Gabbro, and dykes	-80#	Trachyte and dolerite
100302	7391200	205200	-0.01	56	-0.2	-2	33	N slope	Weathered	80% top soil	Poor	Gabbro, and dykes	-80#	Trachyte and dolerite
			AA22											
100312	7391000	205000	0.081	449	-0.2	2		Ridge top	Fresh	Brown soil, 20% hbe + mafics	Poor	Alteration zone, Cu		26/05/2002
100313	7391020	205000	0.043	253	-0.2	-2		Ridge top	Fresh	Brown soil, 20% hbe + mafics	Poor	Dolerite ?		
100314	7391040	205000	0.029	105	-0.2	2		Ridge top	Fresh	Brown soil, 20% hbe + mafics	Poor	Dolerite ?		
100315	7390980	205000	0.089	463	-0.2	-2		S slope	Fresh	Yellow brown soil	Poor	Alteration zone, Cu		with olivine destruction
100316	7390960	205000	0.052	245	-0.2	-2		S slope	Fresh	Yellow brown soil	Poor	Alteration zone, Cu		with olivine destruction
100317	7391080	205050	0.015	62	-0.2	-2		Flat top	Fresh	Black brown soil	Poor	Gabbro o/c		
100318	7391060	205050	0.013	97	-0.2	-2		Flat top	Fresh	Black soil	Poor	Crs pyroxenite		
100319	7391040	205050	0.027	84	-0.2	2		Flat top	Fresh	Reddish brown soil	Poor	Gabbro		
100320	7391020	205050	0.026	89	-0.2	-2		Flat top	Fresh	Reddish brown soil	Poor	Gabbro - coarse		
100321	7390990	204955	0.027	57	-0.2	-2		Flat top	Fresh	Brown soil	Poor	Gabbro - coarse		
100322	7390970	204955	0.026	85	-0.2	3		S spur	Fresh	Green brown soil	Poor	Hornblende gabbro		rusty outcrops
100323	7390950	204962	0.015	58	-0.2	-2		S spur	Fresh	Yellow brown soil	Poor	fg yellow wed trachyte		and microgabbro
100324	7390935	204970	0.017	154	-0.2	-2		S spur	Fresh	Brown soil	Poor	Msv mesogabbro		dolerite float
100325	7391010	204945	0.019	55	-0.2	-2		Flat top	Fresh	Brown red soil	Poor	Hornblende gabbro		plag trachyte dykes
100326	7390781	204677	0.013	23	-0.2	10		Flat	Weathered	Red orange soil	Poor	basalt and dolerite		Testing NW red soil zone
100327	7390800	204670	0.008	17	-0.2	7		Flat	Weathered	Orange soil	Moderate	Gossan float & gabbro		
100328	7390825	204662	0.017	35	-0.2	5		Flat	Weathered	Brown soil	Poor	Gabbro float		
100329	7390850	204652	0.029	82	-0.2	3		Flat	Weathered	Red soil	Moderate	Fe gossan float		Shear zone?
100330	7390875	204637	0.028	111	-0.2	2		Flat	Weathered	Red brown soil	Moderate	Gossan float		Shear zone?

Appendix 4
Rock Chip Sample Locations and Assay Results

Appendix 4: EPM 13664 Rock Chip Sample Locations and Assay Results

Sample	AMG_N	AMG_E	Cu	Pb	Zn	Ag	As	Ni	Co	Mo	Bi	Fe	S	Mn	Pt	Pd	Au	Description
			ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	%	ppm	ppm	ppm	ppm	
			ME-ICP41		ME-ICP4	ME-ICP4	ME-ICP4	ME-ICP4	ME-ICP4	ME-ICP4	ME-ICP41		ME-ICP41		PGM-MS24	PGM-MS24	PGM-MS24	
23991	7390772	204799	593	-2	13	-0.2	5	108	86	-1	-2	5.38	2.12	270	0.0058	0.011	0.031	Gossan with sheared gabbro and siliceous network infill containing about 10% pyrite and 3% chalcopryrite.
23992	7390772	204799	26800	9	265	19.9	71	18	26	108	18	30.4	0.19	300	0.0016	0.012	2.71	Host gabbro with 5% malachite staining.
23993	7390920	205067	22600	-2	75	3.2	7	27	28	23	-2	4.29	0.02	330	-0.0005	0.004	0.267	Malachite stained pyritic mesocratic gabbro, and subcrop breccia (locally gossanous).
23994	7390890	205080	4060	-2	108	1.3	3	64	21	-1	3	34.4	0.01	5280	0.004	0.018	0.147	Siliceous matrix breccia with yellow goethitic vugs - shear zone.
23995	7390897	204940	254	-2	50	-0.2	3	258	98	-1	-2	13.4	-0.01	2120	0.0507	0.045	0.032	Sheared hornblende gabbro with red and green Cu/Fe gossan.
23996	7390753	204690	25200	-2	54	6.7	19	61	55	6	4	8.32	0.02	377	0.0397	0.061	2.06	Shear zone gossan after sulphidic zone; with silica infill and goethitic boxwork filled vugs. In a 4m wide red soil gully striking 055.
23997	7390670	204695	314	10	40	0.9	165	41	16	46	-2	22.9	0.06	291	0.0031	0.008	0.03	Goethitic shear zone on Ck bank; 1m wide. Ck has been cleaned out by alluvial prospectors
23998	7390675	204693	200	4	55	-0.2	75	28	20	20	-2	33.8	0.02	3680	0.001	0.002	0.028	Chalcedony veined red breccia with boxwork after 5% pyrite. Silicified without large veins.
23999	7390675	204693	28	-2	34	-0.2	9	20	5	5	-2	4.18	-0.01	593	-0.0005	-0.001	0.012	Red oxidised and silicified breccia (dolerite) with vugs of pyrite? boxwork.
24000	7390702	204693	41	2	31	-0.2	15	19	7	4	-2	8.02	0.02	1240	0.0005	-0.001	0.018	Red and yellow goethitic dolerite breccia with 10% chalcedony veins. Zone has 360 strike?
24001	7390649	204699	27	11	52	-0.2	289	51	23	11	-2	24.7	0.02	1600	0.0013	0.002	0.008	Brecciated weathered dolerite with minor chalcedony; sulphidic/gossanous.
24002	7390613	204706	15	4	41	-0.2	422	27	8	3	-2	16.1	0.05	597	0.0006	-0.001	0.009	Large subcrop and float of bx zone dolerite with chalcedony and gossan.
24003	7390690	204900	30	41	29	1.6	276	16	4	20	-2	11.4	0.15	363	0.0010	-0.001	0.011	Red oxidised gossanous brecciated metabasalt float, with some silica net veined dolerite showing black Mn stained fractures.

Appendix 4: EPM 13664 Rock Chip Sample Locations and Assay Results

Sample	AMG_N	AMG_E	Cu	Pb	Zn	Ag	As	Ni	Co	Mo	Bi	Fe	S	Mn	Pt	Pd	Au	Description
24004	7390607	205006	6030	-2	60	-0.2	11	283	87	2	4	11	0.03	647	0.0455	0.068	0.292	Hornblende veined coarse gabbro with 2% malachite staining. Possible minor shear zone.
24005	7390584	204791	52	14	31	-0.2	217	18	5	14	-2	11.4	0.02	301	0.0006	-0.001	0.014	Purple and black Mn stained metabasalt breccia with minor chalcedony veins. 160 strike?
24006	7390643	204700	110	5	44	-0.2	47	50	17	15	-2	17	0.01	1140	0.0012	0.002	0.01	Red metabasalt breccia with 5% chalcedony veining and 5% gossan.
24007	7390556	204782	38	6	39	-0.2	118	18	4	10	-2	9.83	-0.01	610	-0.0005	-0.001	0.012	Breccia as above near small pits.
24008	7390470	204651	25	10	99	-0.2	16	43	7	3	-2	20.9	0.02	790	0.0007	0.001	0.009	Brecciated metabasalt with green and yellow goethite matrix and minor gossan. FZ seems less sulphidic, less siliceous to SW end. Not discrete enough to propogate gully erosion.
24009	7390606	205020	40500	-2	263	4.7	36	63	176	39	6	11.8	0.02	444	0.0044	0.016	2.19	Malachite stained brown gabbro (sheared). 050 strike from sample 24002
24010	7390627	204826	231	4	85	-0.2	53	30	16	5	6	9.05	0.02	739	0.0019	0.002	0.019	Microgabbro in Ck bed. Foliated 040 with 60 E dip. A number of oxidised QV/SZ's sampled from Ck bed. 5m south is Metabasalt o/c - overlying unit - purple "dry" breccia.
24011	7390606	204801	14	-2	40	-0.2	52	35	13	18	2	17.1	0.01	1070	0.0007	0.002	0.017	Large breccia/chalcedony sample in Ck on W bank.
24012	7390776	204718	64	3	98	0.2	20	28	24	11	-2	19.5	0.04	4570	0.0011	0.003	0.011	Brecciated and oxidised dolerite and gabbro.
24013	7390840	204906	121900	-2	380	55	74	68	480	692	11	29.6	1.18	296	0.0015	0.033	4.68	1 ft wide microgabbro dyke with intense malachite minralisation on east side in coarse gabbro (6 inch wide strike 050, 80 E dip)
24014	7390850	205008	386	2	50	-0.2	-2	107	43	4	-2	7.61	-0.01	998	0.0143	0.011	0.016	Subcrop and float of orange and brown siliceous dolerite with 5% narrow silica veins. Hornblende/pyroxene gabbro host.
24015	7390840	204655	3810	10	37	1.8	61	35	32	32	15	42.7	0.14	871	0.0060	0.044	0.172	Red soil area parallel to fence, about 40m strike. No tall grass, float and s/c of gossan / S.Z. with 10% chalcedony veins

Appendix 4: EPM 13664 Rock Chip Sample Locations and Assay Results

Sample	AMG_N	AMG_E	Cu	Pb	Zn	Ag	As	Ni	Co	Mo	Bi	Fe	S	Mn	Pt	Pd	Au	Description
100501	7391006	205001	982	-2	17	-0.2	4	8	9	2	-2	1.75	-0.01	244	-0.001	-0.001	0.176	Dark andesite dyke, plagioclase phyrlic +/- K altn
100502	7380997	204997	2120	-2	35	0.5	5	30	14	-1	-2	3.07	-0.01	301	0.0066	0.018	0.625	Strongly altered pink & green fg gabbro w 5% fg py + obvious Cu staining
100503	7390985	205008	13800	-2	25	7.7	14	95	16	-1	-2	4.33	0.04	229	0.0257	0.858	1.73	Cu mineralised fg gabbro outcrop
100504	7390969	204971	15800	-2	57	3.5	26	44	28	-1	-2	4.67	0.01	357	0.0137	0.07	2.21	NW 040 shear in coarse (5mm) hbe/plag gabbro
100505	7390940	204953	963	2	15	-0.2	6	18	18	-1	-2	3.14	-0.01	306	0.0154	0.009	0.382	Fine grained trachyte w minor Fe/Cu staining & weathered olivine (epidote coloured)
100506	7390798	205060	210	2	17	-0.2	4	5	42	-1	-2	2.48	0.02	374	0.0013	0.076	0.054	Dolerite s/c with minor pyrite in epidote veins.
100507	7390735	204688	363	4	74	-0.2	62	26	16	4	-2	9.8	0.02	1500	0.0012	0.016	0.032	Gossanous red brecciated gabbro. At N edge of basalt cover.
100508	7390743	204700	338	4	52	-0.2	140	33	28	30	-2	30.5	0.07	1230	0.0031	0.007	0.026	Yellow goethitic gossan s/c 6m E of rock 23996
23956	7395700	207655	37	-2	72	0.5	2	1150	102	1	10	9.5	0.01	1780	0.010	0.004	0.002	Khaki grey brown moderate to strongly foliated (retrograde?) plag-px-ol rock with yellow weathering. Fine grained with relict (?) coarse pyroxene. Moderately magnetic
23971	7386210	204045	31	4	78	0.3	-2	4	2	6	-2	1.95	0.07	568	0.003	-0.001	-0.001	Pale banded grey and green/yellow silicified mafic volcanic with trace pyrite and mn stained fractures.
23981	7388280	206410	20	9	9	-0.2	44	7	3	10	-2	2.93	0.05	157	-0.001	-0.001	0.005	Purple fg dacite? breccia with 2mm chalcedony infill. Major fault bx? 100,055 ck area.
23982	7387200	206605	680	-2	26	0.9	8	22	11	-1	-2	6.18	-0.01	1830	0.002	0.009	0.012	Porphyritic basalt hosted Q-carb-sulphide vein. Gabbro outcrop on E bank 20m away. 100,069 ck area.

Appendix 5(a)	Drill Hole Collar Details
Appendix 5(b)	Drill Hole Assay Results
Appendix 5(c)	Drill Hole Geology

Appendix 5 (a): EPM 13664 Drill Hole Collar Details

Hole ID	type	AMG E AGD 84	AMG N AGD 84	RL (m)	depth (m)	Az	dip	Date
02FCRC1	RC	204985	7391010	234	54	155	-60	29/07/2002
02FCRC2	RC	204920	7390920	234	54	160	-60	29/07/2002

Appendix 5(b): EPM 13664 Drill Hole Assays

SAMPLE TYPE	Hole	from (m)	to (m)	Sample No	Pd	Pt	Au	Cu	Pb	Zn	Ag	As	Ni	Co	Fe	S	Mo	Mn	Bi
					ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%
COMP	02FCRC1	0	5	101215	0.019	0.0123	0.018	323	4	39	-0.2	-2	44	28	4.99	-0.01	-1	316	-2
COMP	02FCRC1	5	10	101216	0.028	0.0189	0.024	325	-2	54	-0.2	6	63	29	7.82	-0.01	2	1700	-2
COMP	02FCRC1	10	15	101217	0.008	0.0046	0.071	713	-2	63	-0.2	3	33	18	5.46	-0.01	-1	849	-2
COMP	02FCRC1	15	20	101218	0.018	0.0137	0.024	341	3	31	-0.2	-2	33	22	5.18	0.03	-1	410	-2
COMP	02FCRC1	20	25	101219	0.013	0.0092	0.021	520	-2	39	-0.2	-2	34	22	4.75	0.09	1	425	2
COMP	02FCRC1	25	30	101220	0.024	0.0136	0.026	286	-2	33	-0.2	-2	34	21	4.96	0.06	1	383	-2
COMP	02FCRC1	30	35	101221	0.019	0.0104	0.034	299	2	42	-0.2	3	22	20	5.03	0.09	1	502	-2
COMP	02FCRC1	35	40	101222	0.01	0.0069	0.013	209	3	43	-0.2	-2	18	18	4.52	0.07	2	511	-2
COMP	02FCRC1	40	45	101223	0.039	0.017	0.031	494	-2	46	-0.2	2	22	22	5.12	0.23	-1	502	-2
COMP	02FCRC1	45	50	101224	0.007	0.004	0.015	148	2	28	-0.2	3	11	9	3.64	0.04	3	386	-2
COMP	02FCRC1	50	54	101225	0.014	0.0122	0.018	131	-2	44	-0.2	-2	20	17	4.91	0.04	-1	625	-2
COMP	02FCRC2	0	5	101226	0.038	0.0154	0.01	161	-2	35	-0.2	-2	43	31	4.45	-0.01	-1	552	-2
COMP	02FCRC2	5	10	101227	0.008	0.0027	0.008	122	-2	53	-0.2	3	10	17	5.05	-0.01	-1	669	-2
COMP	02FCRC2	10	15	101228	0.009	0.0056	0.006	86	-2	31	-0.2	-2	24	17	3.92	-0.01	-1	425	-2
COMP	02FCRC2	15	20	101229	0.016	0.0107	0.007	154	2	33	-0.2	-2	46	27	5.07	0.03	-1	542	-2
COMP	02FCRC2	20	25	101230	0.003	0.0027	0.006	180	-2	64	-0.2	-2	14	18	4.62	0.04	1	751	-2
COMP	02FCRC2	25	30	101231	0.002	0.0031	0.01	302	3	94	-0.2	-2	7	18	5.04	0.09	2	915	-2
COMP	02FCRC2	30	35	101232	0.003	0.003	0.006	277	-2	94	-0.2	-2	9	19	5.26	0.07	2	975	-2
COMP	02FCRC2	35	40	101233	0.001	0.0017	0.008	270	-2	87	-0.2	3	8	19	5.33	0.02	1	914	-2
COMP	02FCRC2	40	45	101234	0.002	0.0018	0.003	59	-2	48	-0.2	-2	20	18	3.61	0.06	1	570	-2
COMP	02FCRC2	45	50	101235	0.005	0.0069	0.008	117	-2	48	-0.2	3	35	23	5.18	0.03	6	660	-2
COMP	02FCRC2	50	54	101236	0.006	0.0084	0.008	83	-2	36	-0.2	-2	54	25	4.15	0.03	1	498	-2
DUP	02FCRC1	53	54	100961	0.006	0.0039	0.009	158	-2	62	-0.2	2	18	18	4.91	0.11	-1	757	-2
DUP	02FCRC2	53	54	100962	0.006	0.0088	0.005	72	3	45	-0.2	-2	79	33	5.06	0.04	1	627	-2

Appendix 5(c): Drill Hole Geology

Hole_id	from	to	Geol	Desc1	Desc2	Comments (P Rea)
02FCRC1	1	5	MESO			Weathered khaki green brown medium grained mesogabbro\n2m 1% Fe oxide\n3m tr Fe oxide\n4m 2% Fe oxide\n
02FCRC1	5	6	DOL			Pale grey green massive dolerite dyke.\n
02FCRC1	6	11	MESO	DSS	WBED	Orange weathered fine grained olivine (20%), plagioclase (35%), pyroxene (30%). Has significant goethitic veins after sulphide (10-50%).
02FCRC1	11	14	DOL			Massive pale grey dolerite dyke with trace malachite.\n12m bleached\n13m 1% malachite\n14m 2% Fe oxide
02FCRC1	14	17	MESO			Khaki grey medium grained mesogabbro with 70% pyroxene, 25% plagioclase, 5% olivine.\n16m tr Fe oxide\n17m 3% Fe oxide after sulphide
02FCRC1	17	33	MESO			Fresh mid grey (bluish) mesogabbro of plagioclase, pyroxene, and olivine as above.\n17-19m 1% carbonate\n20m 10% epidote, 2% carbonate\n21m 5% carbonate, 1% chlorite, tr pyrite\n21-25m pale green epidote/chlorite alteration with Si-py veins.\n21-23m 5% chlorite and tr pyrite\n24m 3% pyrite, 1% cpy, 5% chlorite\n25m 1% py, 2% cpy, 5% chlorite\n26m 5% chlorite\n27m 1% chlorite\n29m tr pyrite\n33m pale pink plag epidote hornblende vein at lower contact.
02FCRC1	33	36	DOL			Dark green grey massive very fine grained dolerite dyke with weak chlorite alteration.
02FCRC1	36	37	MESO			Mesogabbro as above.
02FCRC1	37	38	DOL			Dolerite as above.
02FCRC1	38	40	MESO			Mid grey mesogabbro as above.\n38-39m tr pyrite, 5% chlorite\n39-40m 1% pyrite, trace chalcopyrite, 5% chlorite.
02FCRC1	40	41	DOL			Dark green grey pyritic dolerite. Very fine grained and massive. Weak chlorite alteration. 2% pyrite.
02FCRC1	41	42	MESO			Mesogabbro as above. 35% plagioclase, 60% pyroxene.\n1% pyrite, 5% epidote, 5% chlorite, trace carbonate.
02FCRC1	42	43	DOL			Dolerite as above. tr py.
02FCRC1	43	44	MESO			Mesogabbro as above with trace pyrite and carbonate
02FCRC1	44	49	MICR			Dark green chlorite altered microgabbro with very fine to fine grained sugary texture. Has pyrite and epidote alteration.\n44-46m tr py and carb\n46m tr py, 5% chl\n47m tr py, 5% epidote\n48m tr py, 10% chlorite\n49m 20% chlorite.
02FCRC1	49	54	MESO			Mid grey medium grained mesogabbro as above with trace red oxide and fine grained disseminated pyrite.\n49-51m 5% chlorite\n53-54m 5% chlorite and tr pyrite.
02FCRC2	0	1	SOIL			Brown soil and carbonate.
02FCRC2	1	5	MESO	WBED		Weathered dark green medium grained mesogabbro with weak chlorite alteration of pyroxenes. Has 25% plagioclase
02FCRC2	5	10	MELA			Dark green pyroxene dominated fine grained gabbro with 5% chalcedony veins.\n7-8m 10% dolerite dyke.
02FCRC2	10	13	DOL			Massive black very fine grained dolerite dyke.

Appendix 5(c): Drill Hole Geology

02FCRC2	13	19 MESO	Dark green partially weathered medium grained gabbro. Foliated with oxidised fractures. Has pervasive chlorite alteration (5%). Alteration colour is suggestive of minor malachite. 16-17m 50% dolerite dyke
02FCRC2	19	22 DOL	Dark green to black fine grained microgabbro or dolerite, with 5-10% plagioclase phenocrysts. Has chilled top contact, and 20% clay at lower contact.
02FCRC2	22	39 MICR	Pale green chlorite and epidote altered unit with trace pyrite. Has 35% plagioclase and 65% mafics. Becomes coarser down hole to 35m then finer to chilled lower contact. Porphyritic texture indicates high level late intrusive origin.
02FCRC2	39	44 MELA	Dark green fine to medium grained pyroxene dominated gabbro with disseminated fine pyrite. Has 15% plagioclase and 80% pyroxene.
02FCRC2	44	46 DOL	Black massive dolerite. Glassy with 1% disseminated pyrite on fractures.
02FCRC2	46	49 MELA	Dark green to grey medium grained mafic gabbro. Pyroxene dominated with trace disseminated pyrite. Green alteration colour is suggestive of malachite.
02FCRC2	49	53 DOL	Dark grey porphyritic dolerite or perhaps trachyandesite with oriented plagioclase phenocrysts.
02FCRC2	53	54 MELA	Mafic gabbro as above. 46-49m appears to be the same as the outcropping target unit, but lacks chalcopyrite.