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EL 2067

MOREENIA

ANNUAL AND FINAL REPORTS TO LICENCE SURRENDER FOR THE PERIOD 6/3/95 TO 7/4/97

Submitted by CRA Exploration Pty Ltd 1997

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CRA EXPLORATION PTY. LIMITED

ANNUAL REPORT FOR THE PERIOD ENDING 5TH MARCH, 1996 FOR EXPLORATION LICENCE 2067 MOREENIA, SOUTH AUSTRALIA

Lincoln SI5311, South Australia Kimba SI5307, South Australia

AUTHOR:

T.C. MOODY

COPIES TO:

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DATE:

APRIL, 1996

SUBMITTED BY:

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Mines & Energy SA

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1. SUMMARY

Exploration Licence (EL) 2067 Moreenia was granted on 6th March, 1995 for a period of one year.

A total of 47 ferruginous lag samples and 358 -80# stream sediment samples were collected during the first year of tenure within EL 2067. An airborne magnetic and radiometric survey was also completed over the entire tenement. Compilation and review of previous exploration data commenced.

Several areas of anomalous base and precious metal geochemistry have been identified in the south of the tenement. Further exploration is warranted in these areas. Interpretation of the aeromagnetic and radiometric data is also required.

2. INTRODUCTION

Exploration Licence (EL) 2067 Moreenia, was granted on 6th March, 1995 for a period of one year over an area of $1318~\rm km^2$ in the southern Eyre Peninsula, South Australia. This report describes all work carried out by CRA Exploration within EL 2067 during the first year of tenure.

EL 2067 is located approximately 70 km north of Port Lincoln (plan SAa 6351). Licence application was made to assess the base and precious metal potential of the strongly deformed Early Proterozoic lithologies adjacent to the south eastern margin of the Gawler Block, South Australia. The area is also regarded as prospective for diamonds.

The Moreenia tenement covers possible granitic Archaean-Early Proterozoic rocks of the Sleaford Complex in the west, Early Proterozoic Hutchison Group graphitic metasediments, carbonates, ironstone, gneiss and minor amphibolite adjacent to the Kalinjala Mylonite Zone in the south east of the tenement, and dominantly granitic rocks of the Lincoln Complex east of the Kalinjala Mylonite Zone. Numerous mafic dykes occur in the area and minor ultramafic rocks are reported to the south of EL 2067 (eg. Flint, 1976). The area is regionally metamorphosed to upper amphibolite-granulite facies and intensely deformed/locally migmatitic approaching the Kalinjala Mylonite Zone. Deformation and intrusive igneous activity in the area is associated with the Archaean-Early Proterozoic Sleafordian Orogeny, Early Proterozoic Kimbian Orogeny and possibly younger events. Ferruginous laterites are well developed in the east of the tenement and extensive aeolian sand cover much of the western and northern part of the tenement. Further discussion of the geology of the area is provided by Parker (1993) and Daly and Fanning (1993).

A review of previous exploration suggests the tenement area has not been systematically explored for Ni, PGE and Au mineralisation. Minor exploration has been conducted with in the tenement area primarily for Cu, Pb, Zn and diamonds. Geological knowledge of the area is also poor. No significant mineralisation has been identified previously in the tenement area.

Exploration during the reporting period included:

- · Review of previous exploration
- Lag sampling
- Stream sediment sampling
- · Airborne magnetic and radiometric survey

3. CONCLUSIONS

Several areas of elevated geochemistry have been identified in the south of the tenement area. Extensive sand cover has inhibited effective stream sediment and lag sample geochemical exploration in the tenement.

Infill sampling and geological mapping is required to assess the significance of stream sediment/lag sample geochemical anomalies. Interpretation of airborne magnetic and radiometric data over the tenement is also required.

4. LAG SAMPLING

A total of 47 ferruginous lag samples were collected from EL 2067 during the first year of tenure. Lag was swept from within an area of several square metres and sieved on site to separate the iron rich fraction. Approximately 2 kg of -10mm+2mm ferruginous lag were forwarded to Analabs in Adelaide for analysis. Several samples were hand picked. Each sample was dried and pulverised to -200# and analysed by a combination of ICP-OES, ICP-MS and Fire Assay techniques for a large multi-element suite. Sample descriptions and assay results are provided in Appendices I and II. Sample locations are provided on plan SAa 6613).

5. STREAM SEDIMENT SAMPLING

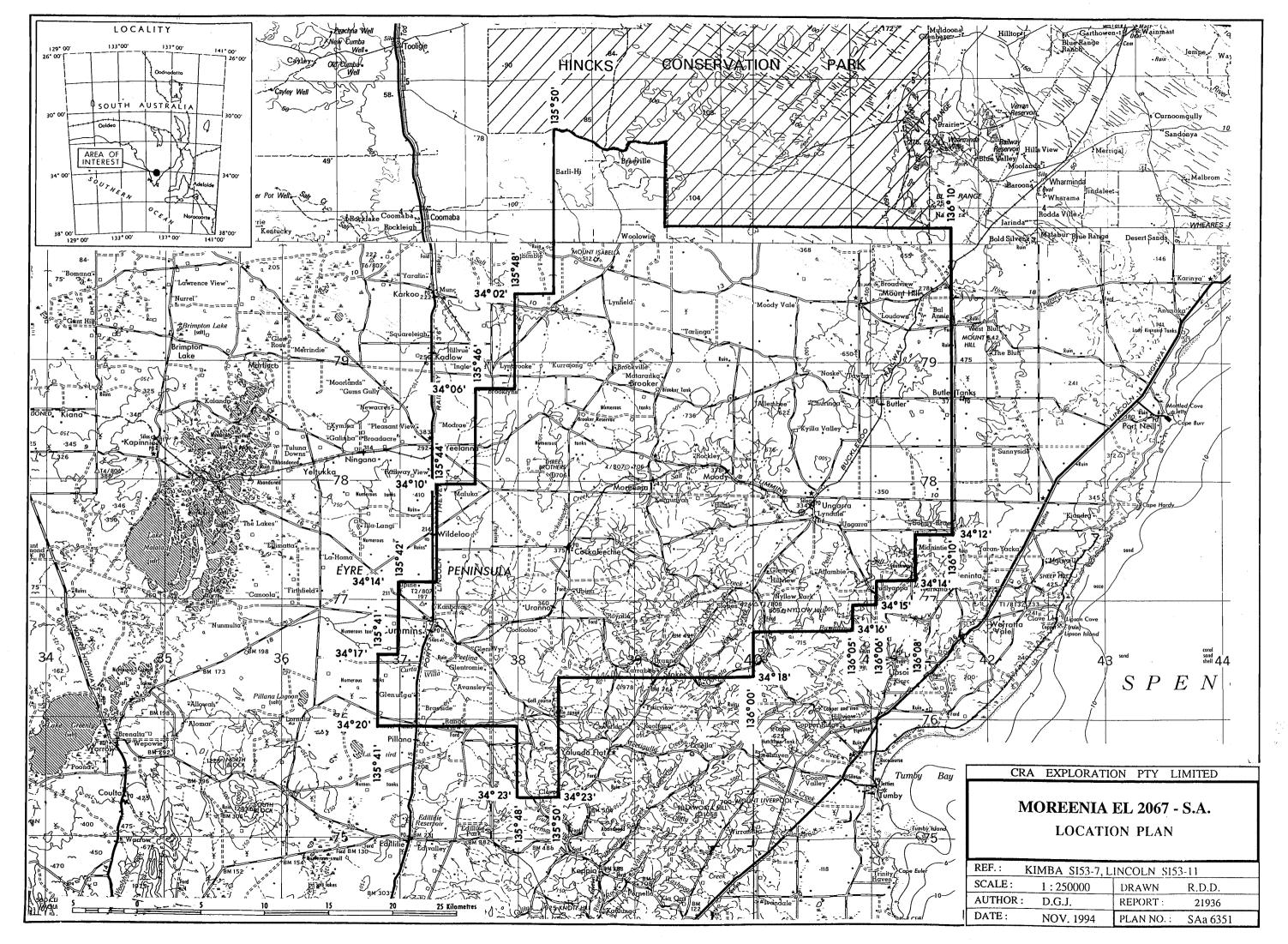
A total of 358 -80# stream sediment samples were collected from EL 2067. Each sample was sieved on site and forwarded to AMDEL in Adelaide for geochemical analysis. Samples were dried, pulverised to -200# (-75 μ) and analysed by method IC3M for Ag, Bi, Mo, Th and U, method IC3E for As, Co, Cr, Cu, Fe, Mn, Ni, P, Pb, Sb, Sn and Zn and method FA3M for Au, Pt and Pd. Sample descriptions and assay results are provided in Appendices III and IV. Sample locations are provided on plan SAa 6614.

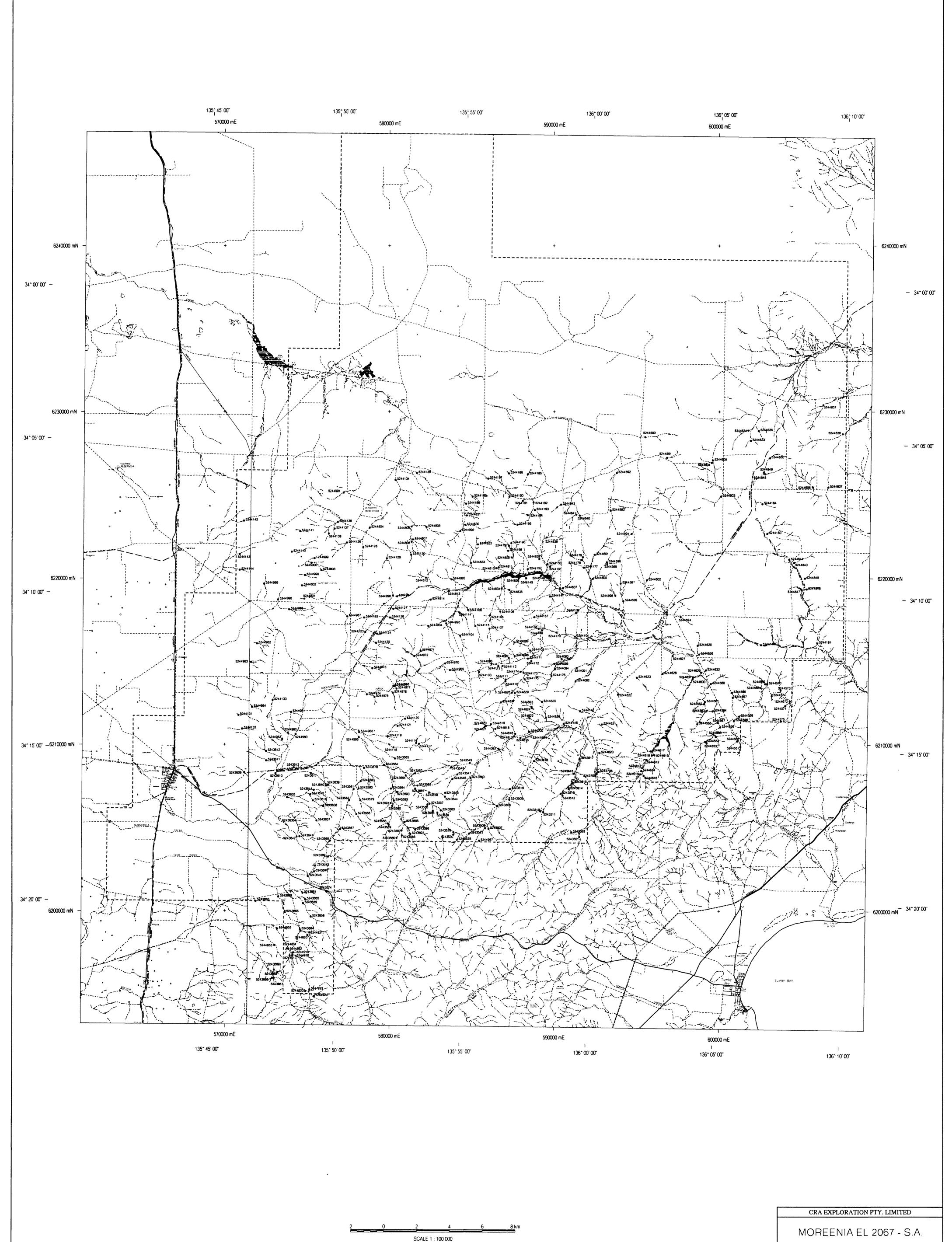
6. AIRBORNE MAGNETIC & RADIOMETRIC SURVEY

A total of 7660 line kilometres of airborne magnetics and radiometrics were flown by Tesla-10 in November 1995. Survey details are provided in a contractors report in Appendix V. Flight path locations and contoured total magnetic intensity and total count radiometrics results are provided on plans SAa 6610, 6611 and 6612.

T.C. MOODY

TCM/dt Reports#Moreenia ANNRPT03/96





-80# STREAM SEDIMENT SAMPLE LOCATIONS

File Name :

Report No : 21936

Plan No : SAa 6614

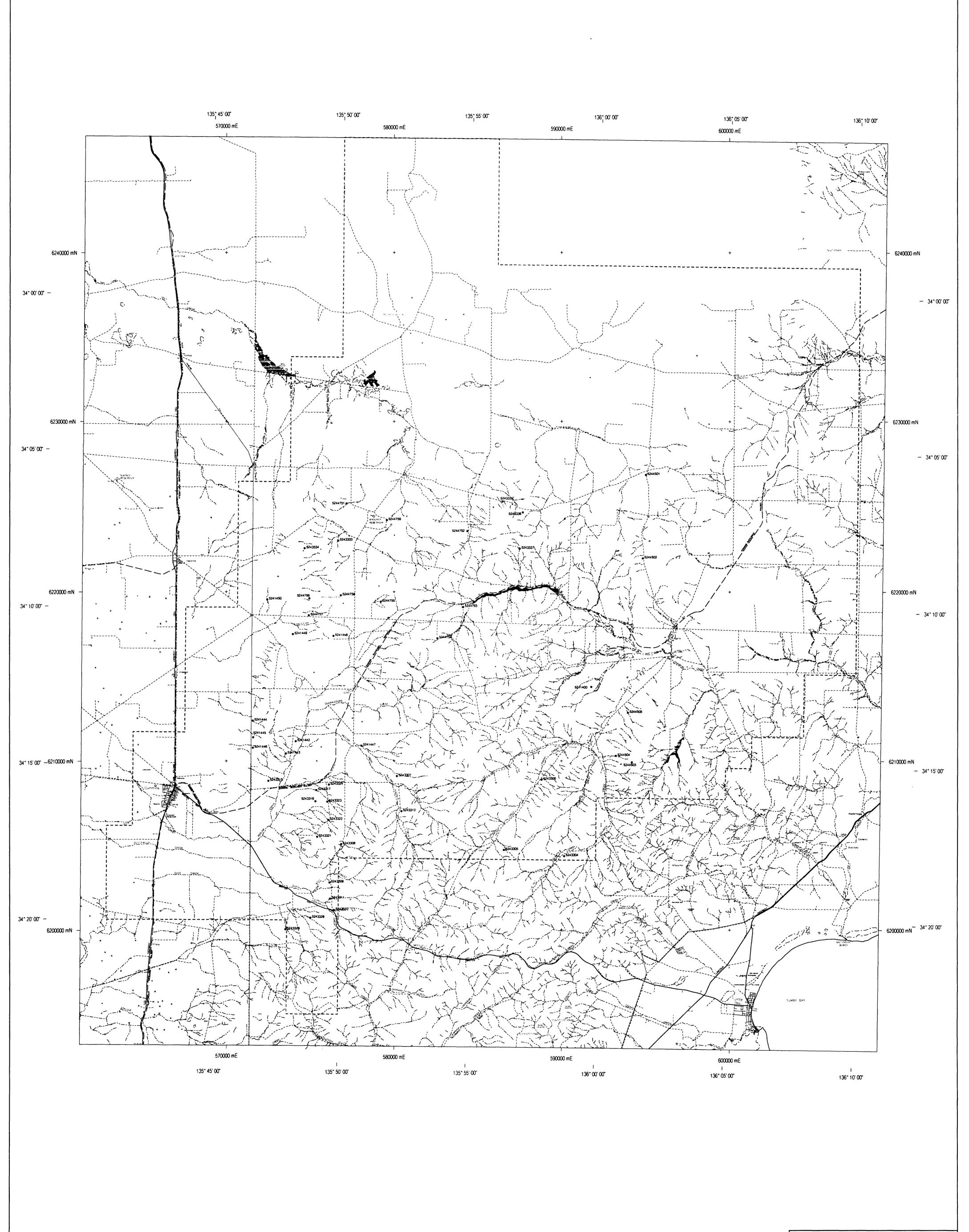
Ref . Lincoln SI5311 / Kimba SI5307

Author .T.C.M.

Date : APRIL 96

Scale :1:100 000

Drawn : F.R.



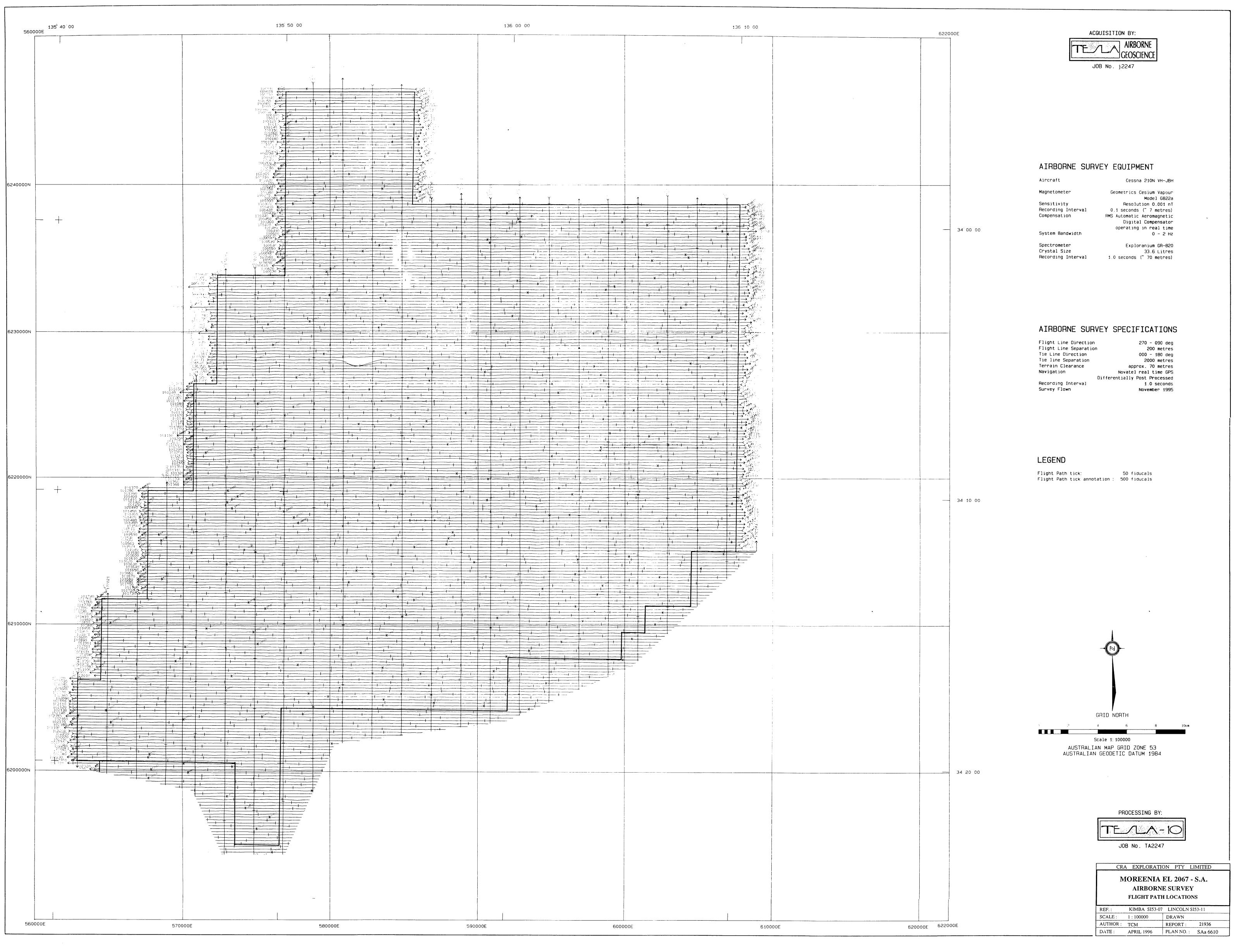
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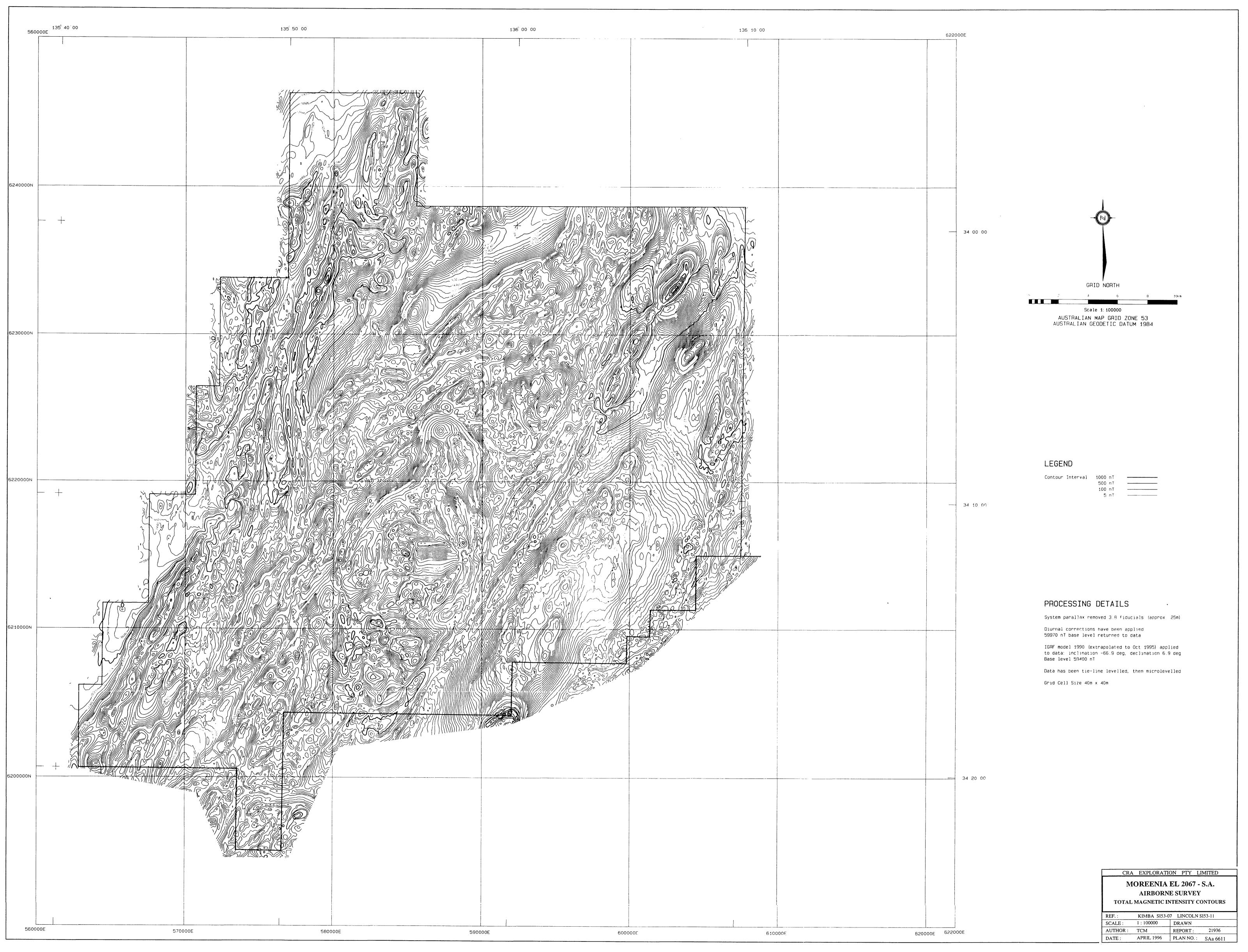
CRA EXPLORATION PTY. LIMITED MOREENIA EL 2067 - S.A. LAG SAMPLE LOCATIONS

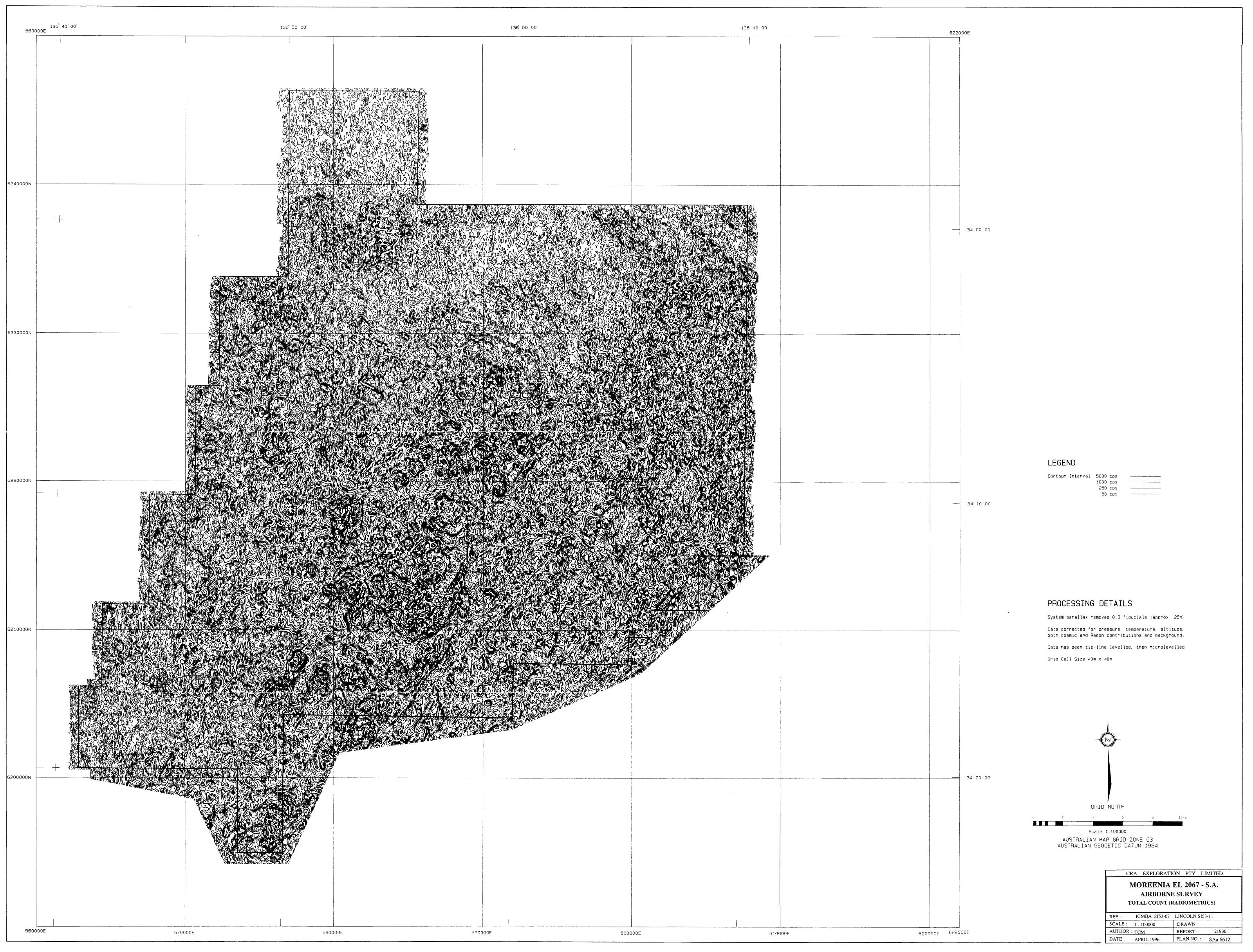
Ref : Lincoln SI5311 / Kimba SI5307 File Name : Report No : 21936

Author :T.C.M. Drawn : F.R. Date : APRIL 96 Scale :1:100 000

Plan No : SAa 6613







REFERENCES

- Daly, S.J. and Fanning, C.M., 1993. in The Geology of South Australia, Volume 1, The Precambrian. (ed. J.F. Drexel, W.V. Preiss and A.J. Parker). South Australian Geological Survey. Bulletin, 54. p33-50.
- Flint, D.J., 1976. Geological Investigations of a Nickel Occurrence in Basic to Ultrabasic Rocks West of Tumby Bay. *Department of Mines, South Australia*. Rept.Bk. No. 76/9.
- Parker, A.J., 1993. in The Geology of South Australia, Volume 1, The Precambrian. (ed. J.F. Drexel, W.V. Preiss and A.J. Parker). South Australian Geological Survey. Bulletin, 54. p50-105

LOCATION

Lincoln SI53-11 1:250 000 sheet Kimba SI53-7 1:250 000 sheet

KEYWORDS

Copper, Nickel, Gold, -80# Stream Sediment Sampling, -2mm BLEG sampling, Lag Sampling, Rock Sampling, Airborne Magnetics, Airborne Radiometrics, Archaean, Proterozoic, Hutchison Group, Lincoln Complex, Sleaford Complex, Gawler Craton, Kalinjala Mylonite Zone.

APPENDIX I LAG SAMPLE DESCRIPTION LEDGER

- I VE LEIÄII	ASOLA FERI	RUGINOUS LAG S	MIVIPLE SU	UACI			
AREA	SAMPNO	TENEMENT_NO	EAST	NORTH	MATERIAL	DPO	COMMENTS
MOREENIA	5241400	EL2067	591765	6214347	-10+2mmLAG	81599	50% round dk brown pisolites; 40% angular laterite fragments; 10% lithics
MOREENIA	5241442	EL2067	574118	6211164	-10+2mmLAG	81599	dark brown to black pisoliths and mottles, no cutan coating, sample site within ploughed field, however nearby creeks show in situ development horizons through creek banks
MOREENIA	5241443	EL2067	573535	6210435	-10+2mmLAG	81599	mottle lag, deep maroon to black, in situ formation, 20% with cutan
MOREENIA	5241444	EL2067	571565	6212369	-10+2mmLAG	1	abundant lag on yellow ferruginous clay horizon, mottles only, with in situ formation likely
MOREENIA	5241445	EL2067	571587	6211395	-10+2mmLAG	81599	abundant lag, mottles and large duricrust fragments, in situ formation above orange ferr silt/clay horizons, 70% with some remnant cutan coating
MOREENIA	5241446	EL2067	571571	6210778	-10+2mmLAG	81599	abundant lag, mostly maroon to brown mottles, in situ formation
MOREENIA	5241447	EL2067	578045	6210904	-10+2mmLAG		pisoliths and mottles on orange ferr clay horizon, 60% with cutan, in situ formation
MOREENIA	5241448	EL2067	576371	6217378	-10+2mmLAG	81599	in situ formation, mostly dark brown to maroon mottles
MOREENIA	5241449	EL2067	573949	6217485	-10+2mmLAG	81599	brown and maroon pisolithic and mottle lag, local transport only is likely, no cutan coating
MOREENIA	5241450	EL2067	572421	6219547	-10+2mmLAG	81599	deep brown to black and maroon pisolithic lag, 40% with cutan, in situ formation likely
MOREENIA	5243304	EL2067	590147	6204365	-10+2mmLAG	81595	mostly well to sub-rounded pisolites, 20% of sample displays mustard yellow cutan, 20% mottle fraction, minor large mottle fraction, little likely transport
MOREENIA	5243305	EL2067	586561	6204723	-10+2mmLAG	81595	90% mottles, 30% with yellow cutan, generally brown/maroon in colour
MOREENIA	5243306	EL2067	588813	6208891	-10+2mmLAG	81595	80% rounded pisolites, 20% with yellow cutan coating, minor mottle fraction, considerable large mottle fraction (too large to be sampled) ?minor component of transport
MOREENIA	5243307	EL2067	580170	6209103	-10+2mmLAG	81595	40% pisolites, 60% mottles, 20% of all pisolites have cutan coating, as do a significant number of the mottled fragments - unlikely to be formed in situ
MOREENIA	5243308	EL2067	576837	6205058	-10+2mmLAG	81595	pisolithic to subpisolithic plus an additional mottle fragment, 60% of all material has cutan coating, pisolites and mottles lie on a weathered yellow/orange mottled saprolite clay horizon - top lag site

AREA	SAMPNO	TENEMENT_NO	EAST	NORTH	MATERIAL	DPO	COMMENTS
MOREENIA	5243309	EL2067	576143	6202808	-10+2mmLAG	81595	pisolites, half with cutan coating, associated with ferruginous clay - in situ formation likely
MOREENIA	5243310	EL2067	576412	6201171	-10+2mmLAG	81595	80-90% mottle fragments, 20-40% of which may be pieces of collapse duricrust breccia, all material is very angular and transport is likely, ferruginous saprolite also present
MOREENIA	5243311	EL2067	576181	6201854	-10+2mmLAG	81595	wide variety of grain size with transport is likely. An adjacent profile displays pisolithic, cutan pisolithic and mottled layers of the weathering sequence, all sections sampled with 20% cutan pisoliths, 40% pisoliths and 40% mottles
MOREENIA	5243312	EL2067	580438	6207030	-10+2mmLAG	81595	excellent lag site, 20% pisoliths, 80% mottles; pisoliths are well to subrounded, lag sits on a well developed yellow/red/white mottled saprolite horizon, large duricrust fragments also present but unable to be sampled
MOREENIA	5243315	EL2067	572499	6208825	-10+2mmLAG	81595	pisolithic lag + small proportion of mottles, occassional pisolite has cutan coating, classic lag site
MOREENIA	5243316	EL2067	575298	6207620	-10+2mmLAG	81595	dark (chocolate brown) to black, well to subrounded pisolithic lag, none with cutan coating, taken within wheat field
MOREENIA	5243317	EL2067	575346	6208285	-10+2mmLAG	81595	80% pisolithic, 20% with cutan coating, black to brown
MOREENIA	5243321	EL2067	575404	6205506	-10+2mmLAG	81595	mostly pisoliths and small mottles, very few with cutan coating, good lag site
MOREENIA	5243322	EL2067	576071	6206510	-10+2mmLAG	81595	mostly pisoliths, well to subrounded, 20-30% with cutan coating, brown to maroon
MOREENIA	5243323	EL2067	576010	6207595	-10+2mmLAG	81595	stunning lag site - abundant pisolithic lag on yellow saprolite clay horizon, 60% with cutan coating, in situ formation confirmed by presence of fragments of pisolithic duricrust
MOREENIA	5243324	EL2067	576100	6208603	-10+2mmLAG	81595	both mottles and pisoliths on saprolite clay base, few with cutan coating
MOREENIA	5243328	EL2067	574996	6200716	-10+2mmLAG	81595	pisoliths sub rounded, brown to maroon, in situ pisolite horizon on yellow saprolite clays
MOREENIA	5243329	EL2067	573514	6200021	-10+2mmLAG	81595	pisolithic lag, well rounded brown to black, 15% with cutan coating, some transport likely
MOREENIA	5243333	EL2067	576650	6223000	-10+2mmLAG	54323	in situ lag, abundant within fields, mostly mottles although some pisoliths, 30% of all with cutan, on brown/red ferr sands
MOREENIA	5243334	EL2067	574650	6222550	-10+2mmLAG	54323	abundant black lag, in situ formation likely, both mottles and pisoliths, 40% with cutan

AREA	SAMPNO	TENEMENT_NO	EAST	NORTH	MATERIAL	DPO	COMMENTS
MOREENIA	5243335	EL2067	586475	6225300	-10+2mmLAG	54323	mostly black to deep brown pisoliths with some mottles, likely in situ formation, 40% with cutan, material on yellow ferruginous clay base
MOREENIA	5243336	EL2067	587675	6224650	-10+2mmLAG	54323	dark, mainly pisolithic lag likely in situ, with only localized transport possible, lag horizon above sand layers
MOREENIA	5243337	EL2067	587500	6222525	-10+2mmLAG	54323	abundant lag, large mottle and saprolite fragments, most lag maroon to brown, most larger fragments with limonitic portion, mostly mottles, in situ formation however few with cutan
MOREENIA	5244501	EL2067	595004	6226872	-10+2mmLAG	81599	30%weath subangular hem pis, 30% angular calcrete, 20% weath subangular hem/goeth pis, 10%angular qtz, 10%limonite. Fe-rich weath schist outcrop. Qtz float
MOREENIA	5244502	EL2067	594823	6221967	-10+2mmLAG	81599	50%weath subangular to rounded hem pis, 40%weath subangular hem/goeth pis, 10%limonite
MOREENIA	5244503	EL2067	594191	6209923	-10+2mmLAG	81599	50% angular qtz, 40% angular hem fragments, 10% ironstone
MOREENIA	5244504	EL2067	593228	6210305	-10+2mmLAG	81599	50%subangular to rounded hem pis, 40%qtz, 10%calcrete
MOREENIA	5244505	EL2067	593949	6212832	-10+2mmLAG	81599	35%rounded hem pis, 35%rounded hem/goeth pis, 30%angular qtz. Site on creek banks - appears not to be stream sediment due to lack of lag sample in creek bed and presence of goethitic cutans on 35% of pisolites.
MOREENIA	5244751	EL2067	577145	6225181	-10+2mmLAG	81599	in situ mottle and pisolithic lag, dark brown in colour, 10% with cutan coating
MOREENIA	5244752	EL2067	584363	6223562	-10+2mmLAG	81599	in situ mostly mottle lag, all with cutan coating, material lies on yellow/orange clay base
MOREENIA	5244753	EL2067	584118	6219105	-10+2mmLAG	81599	both mottles and pisoliths, 80% with cutan, in situ formation likely, both mottled and pallid saprolite also present
MOREENIA	5244754	EL2067	582582	6217244	-10+2mmLAG	81599	both mottles and pisoliths 80% with cutan on yellow/orange ferruginous clay base; small duricrust fragments also present
MOREENIA	5244755	EL2067	579193	6219418	-10+2mmLAG	81599	mostly pisoliths, all with cutan indicating in situ formation, in situ mottled saprolite after sandstone; excellent lag site below Quaternary sand cover
MOREENIA	5244756	EL2067	574927	6219612	-10+2mmLAG	81599	black and deep brown pisoliths, may be locally transported from nearby hills, some with remnant cutan only
MOREENIA	5244757	EL2067	574904	6218607	-10+2mmLAG	81599	in situ black to deep brown lag with local transport only, material above brown ferruginous clay horizon, 70% mottles, 20% of all material with cutan
MOREENIA	5244758	EL2067	576808	6219801	-10+2mmLAG	81599	abundant lag, ferruginous saprolite and duricrust in the locality, mostly mottles, all with some remnant cutan, orange/red brown in colour

AREA	SAMPNO	TENEMENT_NO	EAST	NORTH	MATERIAL	DPO	COMMENTS
MOREENIA	5244759	EL2067	579553	6224207	-10+2mmLAG	81599	transport possible from adjacent paddocks, mostly dark brown to black
							pisoliths, 30% with cutan

.

APPENDIX II LAG SAMPLE GEOCHEMICAL LEDGER

AREA	SAMPNO	TENEMENT	EAST	NORTH	MATERIAL	DPO	Ag	As	Ba	Bi	Ca	Cd	Ce	Cr	Со	Cu	Eu	Fe	K	Mg	Mn	Mo	Na	Ni	P
						METHOD	GS201	GI201	GI201	GS201	G1201	GS201	GS201	G1201	GS201	GI201	GS201	GI201	G1201	GI201	GI201	GS201	GI201	G1201	GI201
						DL	0.1	20	5	0.1	50	0.1	0.05	10	0.2	5	0.05	100	500	20	15	0.1	50	10	100
						UNITS	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
MOREENIA	5241400	EL2067	591765	6214347	LAG	81599	<0.1	40	70	0.9	1100	<0.1	29.1	240	7.6	15	0.45	280000	2600	580	120	4	300	40	220
MOREENIA	5241442	EL2067	574118	6211164	LAG	81599	<0.1	30	105	1.8	900	<0.1	43	310	5.2	10	0.5	367000	3500	760	160	7.6	300	30	390
MOREENIA	5241443	EL2067	573535	6210435	LAG	81599	<0.1	30	135	2.8	1050	<0.1	49.9	330	4	15	0.65	343000	7900	860	140	6.8	1000	20	250
MOREENIA	5241444	EL2067	571565	6212369	LAG	81599	<0.1	50	80_	4.2	1800	0.1	37.9	380	4.6	10	0.5	440000	2100	820	120	8.3	300	20	230
MOREENIA	5241445	EL2067	571587	6211395	LAG	81599	<0.1	30	40	3.3	1450	<0.1	21.9	270	. 3	10	0.35	416000	700	660	120	6.8	150	10	180
MOREENIA	5241446	EL2067	571571	6210778	LAG	81599	<0.1	20	40	1.2	1450	<0.1	32.4	170	3.8	10	0.45	391000	1000	840	140	2.8	250	20	230
MOREENIA	5241447	EL2067	578045	6210904	LAG	81599	<0.1	50	90	1,1	700	<0.1	31.3	280	5	10	0.45	342000	2900	600	100	8.2	300	30	200
MOREENIA	5241448	EL2067	576371	6217378	LAG	81599	0.1	40	9,0	6	1100	0.1	38.6	370	5.2	15	0.5	405000	2800	900	160	7.2	400	30	340
MOREENIA	5241449	EL2067	573949	6217485	LAG	81599	<0.1	40	65	5.5	1500	0.1	32.8	510	4.6	10	0.6	531000	1800	900	80	10.6	350	30	300
MOREENIA	5241450	EL2067	572421	6219547	LAG	81599	<0.1	50	80	1.6	1250	0.2	38.6	260	4.6	25	0.6	309000	2500	680	120	7.5	300	30	330
MOREENIA	5243304	EL2067	590147	6204365	LAG	81595	<0.1	40	75	1.4	1050	<0.1	25	290	5.4	10	0.45	341000	3200	760	260	4.6	600	30	200
MOREENIA	5243305	EL2067	586561	6204723	LAG	81595	0.1	20	50	1.6	950	<0.1	22.3	250	3	,5	0.35	274000	2000	720	60	3.4	300	10	200
MOREENIA	5243306	EL2067	588813	6208891	LAG _	81595	0.1	40	50	2.4	650	<0.1	17.7	310	3.4	5	0,25	369000	2500	680	120	6.3	350	30	400
MOREENIA	5243307	EL2067	580170	6209103	LAG	81595	<0.1	40	325	0.7	2750	0.1	47.9	190	5	<5	0.75	266000	9000	720	100	7.6	1700	20	200
MOREENIA	5243308	EL2067	576837	6205058	LAG	81595	0,1	60	20	2.4	400	<0.1	16.5	400	3.4	5	0.35	427000	500	500	20	15.7	150	10	100
MOREENIA	5243309	EL2067	576143	6202808	LAG	81595	<0.1	40	50	0.8	700	0.1	24.1	170	7.6	< 5	0.5	213000	1800	760	60	8.6	300	30	200
MOREENIA	5243310	EL2067	576412	6201171	LAG	81595	<0.1	<20	25	0.2	500	<0.1	13	70	3	<5	0.25	65500	700	460	40	6.5	250	10	<100
MOREENIA	5243311	EL2067	576181	6201854	LAG	81595	<0.1	20	65	0.6	750	<0.1	21.4	140	2.4	<5	0.25	166000	2300	440	60	8.2	350	10	100
MOREENIA	5243312	EL2067	580438	6207030	LAG	81595	<0.1	40	35	1	550	<0.1	23.8	220	3.8	5	0.35	379000	1200	680	120	10.5	250	20	200
MOREENIA	5243315	EL2067	572499	6208825	LAG	81595	<0.1	40	105	1.4	2100	<0.1	37.4	260	3.6	<5	0.5	303000	3500	680	140	9.4	350	30	300
MOREENIA	5243316	EL2067		6207620	LAG	81595	<0.1	40	85	1.1	1300	0.2	29.2	210	4	<5	0.45	279000	2500	600	100	8.8	350	30	400
MOREENIA	5243317	EL2067	575346	6208285	LAG	81595	<0.1	40	100	1.1	5850	0.2	37.1	240	5.8	5	0.6	295000	3100	920	120	10_	400	30	500
MOREENIA	5243321	EL2067	575404	6205506	LAG	81595	<0.1	40	50	1.4	1050	0.1	27.8	410	4	5	0.4	456000	1700	820	100	11.2	300	30	400
MOREENIA	5243322	EL2067	576071	6206510	LAG	81595	<0.1	60	4.0	0.9	1150	0.1	22.7	260	3.8	<5	0.3	297000	1600	660	80_	8.5	250	20	300
MOREENIA	5243323	EL2067	576010	6207595	LAG	81595	0.1	40	90	_1	1100	0.1	39.8	280	7.2	< 5	0.75	261000	3300	900	60	9.1	450	30	200
MOREENIA	5243324	EL2067	576100	6208603	LAG	81595	0.1	60	40	1	850	<0.1	36.6	510	4.4	5	0.45	370000	1700	840	80	8.2	350	30	200
MOREENIA	5243328	EL2067_		6200716	LAG	81595	<0.1	40	40	0.8	700	0.1	29.3	220	5.4	<5	0.85	311000	1600	760	60	8.4	400	20	100
MOREENIA	5243329	EL2067		6200021	LAG	81595	<0.1	40	100	1.1	800	0.2	32.8	220	3.6	5	0.35	324000	4200	560	140	12	350	20	400
MOREENIA	5243333	EL2067	576650	6223000	LAG	54323	<0.1	25	52	2.6	831	<0.1	na	296	2.8	17	0.37	344000	2000	1190	121	5.2	319	23	290
MOREENIA	5243334	EL2067	574650	6222550	LAG	54323	<0.1	38	68	2.8	993	<0.1	na	360	3.7	9	0.62	439000	2900	1128	148	7	485	29	312
MOREENIA	5243335	EL2067	586475	6225300	LAG	54323	<0.1	34	55	0.9	707	<0.1	na	189	3.1	8	0.35	236000	1600	652	124	6.1	193	1.7	143
MOREENIA	5243336	EL2067		6224650	LAG	54323	<0.1	34	67	1.1	592	<0.1	na	187	3.3	9	0.39	247000	2000	699	120	6	187	19	256
MOREENIA	5243337	EL2067		6222525	LAG	54323	_<0.1_	25	52	0.5	1272	<0.1	na	183	3	10	0.4	418000	1200	1186	151	8.8	222	22	237
MOREENIA	5244501	EL2067		6226872	LAG	81599	<0.1_	30	95	0.8	30800	<0.1	29.5	150	4.8	10	0.5	130000	2500	2380	100	5.8	400	20	110
MOREENIA	5244502	EL2067		6221967	LAG	81599	<0.1	50	50	2.3	1450	<0.1	18.1	270	5.6	10	0.4	387000	1400	1100	100	6.1	300	30	150
MOREENIA	5244503	EL2067		6209923	LAG	81599	0.1	40	25	0.8	600	<0.1	17.6	100	5.2	10	0.3	130000	1900	420	40	5.1	150	10	160
MOREENIA	5244504	EL2067		6210305	LAG	81599	<0.1	30	70	1	1250	0.1	24.8	180	3.2	10	0.35	206000	2000	540	100	5.1	300	20	320
MOREENIA	5244505	EL2067	593949	6212832	LAG	81599	<0.1	20	55	0.5	850	<0.1	25.4	100	3	5	0.35	120000	2200	400	80	4.4	350	10	100
MOREENIA	5244751	EL2067	577145	6225181	LAG	81599	<0.1	40	7.5	5.5	1400	0.1	43.3	310	5	10	0.5	372000	2300	900	160	6.8	300	30	310
MOREENIA	5244752	EL2067	584363	6223562	LAG	81599	<0.1	30	30	0.5	450	<0.1	15.5	110	4.8	<5	0.45	133000	1300	500	40	4.3	200	20	60
MOREENIA	5244753	EL2067	584118	6219105	LAG	81599	<0.1	30	125	0.5	550	<0.1	74.1	140	4.2	5	0.55	170000	3400	540	140	4.8	450	20	140
MOREENIA	5244754	EL2067	582582	6217244	LAG	81599	<0.1	40	. 80	0.7	600	<0.1	30.7	190	4.4	5	0.35	260000	1900	580	80	5.8	200	20	160
MOREENIA	5244755	EL2067	579193	6219418	LAG	81599	0.1	50	40	0.8	450	<0.1	22.7_	220	6	5	0.45	178000	1400	680	40	6	350	30	70
MOREENIA	5244756	EL2067	574927	6219612	LAG	81599	0.2	40	60	4	1000	0.1	48.3	420	5	15	0.55	455000	2400	1020	180	6.6	250	40	310
MOREENIA	5244757	EL2067	574904	6218607	LAG	81599	<0.1	30	115	3.8	5850	<0.1	71.4	350	6.2	15	0.7	438000	2100	1380	1000	4.8	250	30	300
MOREENIA	5244758	EL2067	576808	6219801	LAG	81599	<0.1	20	40	0.4	700	<0.1	17.8	260	3.4	20	0.3	332000	1100	480	80	2.9	150	20	180
MOREENIA	5244759	EL2067	579553	6224207	LAG	81599	<0.1	50	90	1	900	<0.1	34.5	220	4.8	10	0.5	338000	3400	620	140	7.4	350	30	320

ADEA	CAMPAIO	TELIFO SEATE	FACT	Norm:	MATERIAL	DDO	- Ph	CL		7:	T 1.					
AREA	SAMPNO	TENEMENT	EAST	NORTH	MATERIAL	DPO	Pb	Sb	Sn	Ti	Th	U	Zn	Au	Pt	Pd
						METHOD	GS201	GS201	GS201	GI201	GS201	GS201	G1201	GS333	GS333	GS333
						UNITS	1	0.1	0.5	10	0.05	0.05	5	1	0.5	0.5
MOREENIA	5241400	EL2067	501765	6214347	LAG	81599	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppb	ppb	ppb
MOREENIA	+	EL2067	 	6211164	LAG	81599	56 100	1.6	2	2790	45.5	2	10	<1	<0.5	<0.5
MOREENIA		EL2067	573535		LAG		88	1.9	3	4480	55.1	1.97	15	<1	<0.5	<0.5
MOREENIA	5241443 5241444	EL2067 EL2067	571565		LAG	81599 81599	107	2.8	3 4.5	3220	74.4	2.06	10	<1	<0.5	0.5
MOREENIA	5241444	EL2067	571585	6211395	LAG	81599	51	1	9	3050 4720	111	2.02		<1	<0.5	0.5
MOREENIA	1	EL2067	571571	6211393	LAG	81599	54	0.7	2.5		67.6	2.02	5	<1	<0.5	<0.5
MOREENIA	5241446	EL2067	578045	6210778	LAG	81599	73	1.5		2730	72.6	1.71	15	<1	<0.5	<0.5
MOREENIA	5241447	EL2067	576371	6217378	LAG	81599	87	2.2	3	3590 3870	31.1	1.74	10	<1	<0.5	<0.5
MOREENIA	5241449	EL2067 EL2067	573949	6217485	LAG	81599	91	2.6	7.5	4040	124	2.25	15	<1	<0.5	<0.5
MOREENIA	5241449	EL2067	572421	6217465	LAG	81599	75	2.0	2.5	3850	48.1	2.36	10	<1	<0.5	<0.5
MOREENIA	5241450	EL2067	590147	6204365	LAG	81595	84	1.5	3	4180	37.7	1.3 2.1	15 30	<1	<0.5	<0.5
MOREENIA	5243304	EL2067	586561	6204363	LAG	81595	56	1.1	6.5	4730	54.3	2.05	30	<1 <1	1.5 <0.5	0.5
MOREENIA	5243306	EL2067	588813	6208891	LAG	81595	67	1.4	4	3200	60.5		-		~	
MOREENIA	5243306	EL2067 EL2067		6209103	LAG	81595	82	1.4	2.5	3200		1.65	30	<1	<0.5	<0.5
MOREENIA	5243307	EL2067	576837	6205058	LAG	81595	67	2.3	5	3230	69.5 151	1.65 2.9	60 20	<1 <1	<0.5 1	<0.5
MOREENIA		EL2067		6202808	LAG	81595	36	1.4	3	4670	26	1.85	25	<1	<0.5	1.5
MOREENIA	5243310	EL2067	576412		LAG	81595	16	0.5	1.5	1730	18.4	1.65	15	<1	<0.5	<0.5 <0.5
MOREENIA	5243310	EL2067	576181	6201854	LAG	81595	38	0.8	1.5	2660	22.7	1.25	15	<1	<0.5	<0.5
MOREENIA	5243311	EL2067		6207030	LAG	81595	64	1.3	3.5	4500	91.2	2.4	35	<1	0.5	<0.5
MOREENIA	5243315	EL2067	572499	6208825	LAG	81595	94	1.8	2.5	5250	26.2	1.45	20	<1	<0.5	1.5
MOREENIA	5243316	EL2067	575298	6207620	LAG	81595	74	1.9	2.5	4470	27.2	1.43	20	<1	<0.5	<0.5
MOREENIA	5243317	EL2067	575346	6208285	LAG	81595	81	2.2	3.5	4200	46.4	1.4	25	1	<0.5	<0.5
MOREENIA	5243311	EL2067	575404	6205506	LAG	81595	143	2.4	2.5	3510	132	3.05	30	<1	<0.5	<0.5
MOREENIA	5243322	EL2067	576071	6206510	LAG	81595	57	2	3	3250	98.2	1.95	20	<1	<0.5	<0.5
MOREENIA	5243323	EL2067		6207595	LAG	81595	70	1.9	3	4520	53.6	3	25	<1	<0.5	<0.5
MOREENIA	5243324	EL2067	576100	6208603	LAG	81595	99	2.5	3	3190	215	1.95	25	<1	<0.5	<0.5
MOREENIA	5243328	EL2067	574996	6200716	LAG	81595	64	1.8	2.5	3020	72.7	1.9	20	<1	<0.5	<0.5
MOREENIA	5243329	EL2067	573514	6200021	LAG	81595	84	1.7	2.5	4590	32.5	2.15	15	<1	<0.5	<0.5
MOREENIA	5243333	EL2067	576650	6223000	LAG	54323	54	1.5	2.9	4098	na	na	15	<1	<0.5	<0.5
MOREENIA	5243334	EL2067	574650	6222550	LAG	54323	91	2	2.9	3265	na	na	12	<1	<0.5	<0.5
MOREENIA	5243335	EL2067	586475	6225300	LAG	54323	44	1,2	2.8	4550	na	na	8	<1	<0.5	<0.5
MOREENIA	5243336	EL2067	587675	6224650	LAG	54323	70	1.5	2.1	4203	na	na	13	<1	<0.5	<0.5
MOREENIA	5243337	EL2067	587500	6222525	LAG	54323	57	1	2.7	3387	na	na	10	<1	<0.5	<0.5
MOREENIA	5244501	EL2067	595004	6226872	LAG	81599	42	1.1	2	3280	21.3	1.17	10	<1	<0.5	<0.5
MOREENIA	5244502	EL2067	594823	6221967	LAG	81599	55	1.4	4	4250	64.5	1.71	5	<1	1	1
MOREENIA	5244503	EL2067	594191	6209923	LAG	81599	32	1	3.5	1780	33.3	1.42	5	<1	<0.5	<0.5
MOREENIA	5244504	EL2067	593228	6210305	LAG	81599	51	0.9	2	3590	24.5	1.17	10	<1	<0.5	<0.5
MOREENIA	5244505	EL2067		6212832	LAG	81599	36	0.6	1.5	2650	17.5	1.13	<5	<1	<0.5	<0.5
MOREENIA	5244751	EL2067	577145	6225181	LAG	81599	84	1.8	3	3410	79.7	1.91	15	<1	<0.5	<0.5
MOREENIA	5244751	EL2067		6223562	LAG	81599	29	0.8	2	3420	20	1.35	<5	<1	<0.5	<0.5
MOREENIA	5244752	EL2067		6219105	LAG	81599	53	0.9	1.5	2910	32.8	1.58	10	<1	<0.5	<0.5
MOREENIA	5244754	EL2067	582582	6217244	LAG	81599	58	1,2	1.5	3330	33.1	1.54	10	<1	<0.5	<0.5
MOREENIA	5244755	EL2067	579193	6219418	LAG	81599	38	1.3	2.5	4120	31.4	1.45	5	<1	<0.5	<0.5
MOREENIA	5244756	EL2067	574927	6219612	LAG	81599	93	1.9	3	3280	94.7	1.9	10	<1	<0.5	0.5
MOREENIA	5244757	EL2067		6218607	LAG	81599	69	1.3	3	3270	76.5	1.8	15	<1	<0.5	1
MOREENIA	5244757	EL2067	576808	6219801	LAG	81599	35	0.6	5	3660	59.6	1.34	10	<1	1	0.5
MOREENIA	5244759	EL2067		6224207	LAG	81599	84	1.8	1.5	3460	30.2	1.32	10	<1	<0.5	<0.5
IA CLIECTAIN	0244105	EL2007	012000	UZZ4201	<u></u>	01000	04	1.0	1.0	2400	20.2	1.02	10	~ 1	-0.0	-0.0

APPENDIX III -80# STREAM SEDIMENT SAMPLE DESCRIPTION LEDGER

EYRE PENII	15ULA -80#	STREAM S	EDIMENT	SURVEY					
Area	Compno	Tenement	AMG	AMG	Stream	Bank			
Area	Sampno	renement	East	North	Width (m)		Float	Outcrop	Comments
	-		Last	Hortin	width (III)	rieight (iii)	Float	Outcrop	Comments
MOREENIA	5243501	EL2067	591536	6204474	> 10	1	fg mica schist + qz, ironstone, heavily weathered material - some banded	·-	complex drainage system, possibly more than one creek
MOREENIA	5243502	EL2067	591051	6204756	5	1.5	no significant float	-	sample site a bit sandy, taken from overbank deposit away from MC
MOREENIA	5243506	EL2067	585812	6204998	> 20m	0.5	•	•	well compacted material, well grassed, broad drainage system
MOREENIA	5243507	EL2067	586025	6204965	3	0.5	qz + vfg mu schist, abundant Fe stone	-	MC sample
MOREENIA	5243508	EL2067	586533	6206317		1		-	poorly defined channel within broad system
MOREENIA	5243509	EL2067	587285	6206705	1.5	1.5	-	-	MC sample, possibly quite sandy, water in nearby dam
MOREENIA	5243510	EL2067	589186	6206008	> 20m	0.8	-	-	very broad drainage system, heavily silted up with little vegetation, strongly influenced by heavy cultivation with evidence of high salt content
MOREENIA	5243511	EL2067	589356	6205954	> 20m	0.8	•	-	broad poorly defined drainage system, affected by intense cultivation, evidence of high salinity
MOREENIA	5243512	EL2067	590528	6206947	1	0.75	•	-	material quite sandy, may be influenced by proximity to cultivated paddocks
MOREENIA	5243513	EL2067	590423	6207061	5	1	•	-	wet sample, within main channel of Ducksnest Creek, well compacted overburden material
MOREENIA	5243514	EL2067	590913	6207330	3	0.3	ferruginous material, some relic after fg to mg conglomerate material, some fragments after pegmatite, minor saprolite, qz	-	well vegetated drainage channel
MOREENIA	5243515	EL2067	591154	6207709	> 20m	0.4	minor float, ?tourmaline bearing pegmatite, qz+ferr saprolite	-	main regional drainage channel, sample taken from overbank silts away from MC, evidence of high salinity and intense cultivation
MOREENIA	5243516	EL2067	591194	6208254	1.5	0.5	abundant Fe stone after mg to cg conglomerate, white saprolite possibly after conglomerate, qz + possible relic pegmetite	-	well compacted material
MOREENIA	5243517	EL2067	591571	6209139	8.5	0.3	÷	-	sample taken away from MC
MOREENIA	5243518	EL2067	588800	6209000	. 1	0.2	ferr lag material as float with a high proportion of cutan covered pisoliths, also qz		
MOREENIA	5243519	EL2067	587332	6207337	2	1	-	-	very muddy material taken from well wooded creek
MOREENIA	5243528	EL2067	584116	6204314	1	0.2	-	-	well grassed and wooded drainage channel
MOREENIA	5243529	EL2067	583891	6204769	3	1	isolated pieces of qz	•	well grassed creek, sample taken from well exposed profile section, 2 distinct profile layers, both sampled
MOREENIA	5243530	EL2067	583899	6204628	3.5	2	fragmented duricrust + qz, Fe stone probably locally transport	-	broad valley drainage channel, well vegetated and well compacted material, possibly influenced by proximity to cultivated fields
MOREENIA	5243543	EL2067	584851	6204690	2	1.5	-	-	well vegetated creek

Area	Sampno	Tenement	AMG	AMG	Stream	Bank			
			East	North	Width (m)		Float	Outcrop	Comments
MOREENIA	5243544	EL2067	583372	6206887	2	0.2	very fine Fe stone material (2-3mm)	-	poorly defined drainage within the barley paddock, creek drains significant. Fe stone outcrops and weathered clay material
MOREENIA	5243545	EL2067	583388	6207116	5	0.2	-		this, and sample 5243544 drain large hill containing abundant qz below well developed Fe laterite profile, material is well compacted within barley paddock, broad valley drainage pattern
MOREENIA	5243546	EL2067	583820	6207930	4	0.4	brecciated and weathered qz, fspar rich pegmatite, qz veining with ?some sugary brecciated qz	-	in barley paddock
MOREENIA	5243547	EL2067	584127	6208212	5	0.5	-	•	broad drainage system, well grassed
MOREENIA	5243548	EL2067	583741	6208626	5	0.5	-	-	broad valley drainage, well grassed
MOREENIA	5243549	EL2067	584899	6208883	1.75	2	?qzte, weathered qz, little float in the locality of sample, ?weathered granitic material	-	deep drainage channel bordering cultivated fields
MOREENIA	5243550	EL2067	584939	6207992	3	0.5	minor qz float only, minor mottled clay horizons	-	broad valley drainage system
MOREENIA	5243555	EL2067	582637	6206050	2	0.75	?ferr duricrust material	•	sandy material, silt traps rare
MOREENIA	5243556	EL2067	582306	6206404	5	0.5	duricrust containing fragments of qz	-	valley drainage system, well grassed, sediment material quite sandy
MOREENIA	5243557	EL2067	582439	6206461	8	0.4		-	broad multichannel drainage system, well grassed and well vegetated, material slightly sandy
MOREENIA	5243558	EL2067	582422	6207136	4	1	•	-	-
MOREENIA	5243559	EL2067	582919	6205925	2	0.2		-	broad valley drainage, well grassed
MOREENIA	5243560	EL2067	583124	6206068	1.5	4	.	•	deep and major drainage channel despite lack of width sediment quite sandy
MOREENIA	5243561	EL2067	581566	6207361	4	0.8		-	major drainage channel despite lack of width
MOREENIA	5243562	EL2067	581696	6207548	1.5	0.5	qz, fragments of ferruginous material, ?some formed in situ via chemical processes	-	•
MOREENIA	5243563	EL2067	581561	6208280	1.5	1.5		qz breccia, ?after quartzite or pegmatite with all feldspar removed, fragments are highly angular and poorly sorted with likely silica cement	material quite sandy
MOREENIA	5243564	EL2067	580991	6208143	8	3	-	•	well vegetated reed cover, wet sample taken from MC
MOREENIA	5243565	EL2067	580335	6209161	1.5	0.5	large ferruginous duricrust fragments, clay/Fe cemented qz breccia, upper portions of the lag profile also present	-	corresponding lag sample taken (5243307)
MOREENIA	5243566	EL2067	577991	6205835	5	0.2	•	-	very broad poorly defined channel within wheat paddock
MOREENIA	5243567	EL2067	577000	6204950	1	2.5	qzte, clay cemented qz breccia (fg) mottle material and fragments of duricrust, ?clacarenite (recent) deposits	-	quite sandy material, major drainage system although narrow

Area	Sampno	Tenement	AMG	AMG	Stream	Bank			
		_	East	North	Width (m)	Height (m)	Float	Outcrop	Comments
MOREENIA	5243568	EL2067	576400	6204247	2	1.75	highly ferruginous saprolite both yellow and deep brown, also pallid or mottled saprolite material, unusual highly siliceous material (?interesting, rock sample taken)	-	-
MOREENIA	5243569	EL2067	576269	6203281	1	0.4	<u>-</u>	-	well wooded
MOREENIA	5243574	EL2067	576204	6201182	2	0.5	qz, pallid + mottled saprolite, ?qzte or granitic breccia, fg well foliated mafic material, may appear in conglomerate material, higher layers of the Fe weathering profile	-	•
MOREENIA	5243578	EL2067	578452	6208587	10	0.1	•	-	major valley drainage proximal to cultivated fields
MOREENIA	5243579	EL2067	578226	6206661	4	0.5	minor pisolithic lag	-	broad valley drainage,
MOREENIA	5243580	EL2067	578126	6207364	0.75	0.2	lag material (not sampled)	-	probably diverted by cultivation activity
MOREENIA	5243581	EL2067	577819	6207317	12	0.1		-	very broad, well vegetated valley drainage, proximal to recent dam
MOREENIA	5243582	EL2067	577547	6206658	20	0.1	•	-	broad valley drainage, well vegetated and well grassed, proximal to grazing paddocks
MOREENIA	5243583	EL2067	578253	6207802	2	0.4	•	-	drainage channel may be affected by human activities, proximal to grazing paddocks
MOREENIA	5243584	EL2067	579672	6208762	8	2.5	most float likely due to transport due to road bullding activity - mottled saprolite, ?amphibolite, kspar rich granite, qz, minor lag, pallid saprolite	•	channel is likely to have suffered human alteration
MOREENIA	5243585	EL2067	580761	6204571	2.5	0.5	qzte, white to grey, may be Fe stained, qz granite or pegmatite possibly weakly foliated, rare ferr saprolite + vfg mica schist	÷	-
MOREENIA	5243586	EL2067	580439	6204425	6	1	quartzofeldspathic vfg bt schist, developing to gneissic or migmatitic in qz/fspar layers	_	broad valley drainage
MOREENIA	5243587	EL2067	580743	6204875	20	1	qz, Fe stone conglomerate	-	major valley drainage although poorly defined, well grassed, OB silt sample
MOREENIA	5243588	EL2067	579895	6205290	4	1	•	-	well grassed, within wheat paddock
MOREENIA	5243589	EL2067	579966	6205216	4	0.7	duricrust fragments, qz, leucogranite, some fragments brecciated	-	major valley drainage channel through well defined creek system
MOREENIA	5243590	EL2067	580169	6206327	2.5	2	•		well defined drainage channel
MOREENIA	5243591	EL2067	580073	6206499	3	0.7		-	well wooded and grassed shallow valley type drainage
MOREENIA	5243592	EL2067	580268	6206650	3	0.5	qz, duricrust fragments, mottled saprolite	-	variable bank height, well grassed
MOREENIA	5243593	EL2067	580451	6207171	2	0.4	mottled ferruginous saprolite after duricrust, float rare	•	poorly defined well vegetated and well grassed drainage zone
MOREENIA	5243594	EL2067	580087	6207359	1.5	1.5	minor lag fragments (pisoliths and mottles)		well compacted material in well grassed and vegetated creek
MOREENIA	5243595	EL2067	580928	6205381	2	0.5	•	-	valley drainage, well grassed and within cropped fields

Area	Sampno	Tenement	AMG	AMG	Stream	Bank		1	
			East	North	Width (m)	Height (m)	Float	Outcrop	Comments
MOREENIA	5243596	EL2067	581572	6204924	3	2	duricrust, mottled saprolite, + fg holocrystalline qz/fspar rich granite	-	well grassed valley drainage
MOREENIA	5243597	EL2067	581274	6204667	2	1.25	•	-	broad, well grassed and well vegetated valley drainag
MOREENIA	5243609	EL2067	571177	6208315	1.75	0.3	pisolithic lag likely transported from adjacent roadworks	-	well compacted, well defined drainage system
MOREENIA	5243610	EL2067	573074	6208259	12	0.75	pallid and mottled saprolite, ?fg calcarenite or calcrete, lineated qzte (mu rich), undeformed granite (kspar rich)	-	very sandy creek bed, ?some influence from nearby road metal
MOREENIA	5243611	EL2067	572505	6209030	1.6	0.6	pisolithic lag, mottled saprolite		MC sample
MOREENIA	5243612	EL2067	572500	6209601	1.6	0.3	pisolithic + mottle lag horizons, minor qz	•	Abundant silt fraction thoughout
MOREENIA	5243613	EL2067	574179	6208614	2	0.35	-	-	sample from OB material, sandy main channel
MOREENIA	5243614	EL2067	575392	6207282	1.5	0.1	lag	-	well grassed valley drainage system within cropped fields
MOREENIA	5243615	EL2067	575176	6207011	2.5	0.6	pisolithic lag, mottled saprolite	-	well grassed, well wooded channel
MOREENIA	5243616	EL2067	575343	6206655	1	1.5	pisolithic lag, ?recent calcrete		valley drainage, MC sample, well grassed within whea paddock
MOREENIA	5243617	EL2067	575226	6208276	2.5	0.2	<u> </u>		variable bank height, valley drainage through cropped fields, well compacted material, MC sample
MOREENIA	5243635	EL2067	573771	6206839	1	0.2	calcrete, pisolithic duricrust with calcareous cement	-	•
MOREENIA	5243636	EL2067	574297	6205459	2	0.1	minor lag		shallow valley drainage
MOREENIA	5243637	EL2067	575558	6205457	2	1.6	pisolithic duricrust, heavily weathered granite, mottled saprolite, lag present in stream banks	•	?galvanized iron pipe runs length of stream
MOREENIA	5243638	EL2067	575973	6206303	2	0.1	minor qz	-	very shallow valley drainage, well grassed within cultivated fields, material quite sandy
MOREENIA	5243639	EL2067	576260	6207570	1.5	0.2	minor lag	-	poorly defined shallow valley drainage, well grassed
MOREENIA	5243640	EL2067	576149	6207541	1.5	0.2	minor lag	eroding pisolithic duricrust	broad, shallow and poorly defined valley drainage, well grassed
MOREENIA	5243641	EL2067	574529	6204497	4	0.2	lag (mostly formed in situ or locally), granite breccia, duricrust fragments		broad valley drainage, well grassed
MOREENIA	5243642	EL2067	574355	6204481	2.5	0.4	qz, large mottle fragments	-	variable bank height, sediment sandy and gritty, well grassed
MOREENIA	5243643	EL2067	575494	6202723	2.5	1	qzte, grit	-	well vegetated (reeds)
MOREENIA	5243644	EL2067	575434	6202366	4.5	0.3	•		poorly defined valley drainage
MOREENIA	5243645	EL2067	575048	6202090	1.75	0.4	-		OB sample (material quite sandy)
MOREENIA	5243658	EL2067	575221	6199640	1.5	2	mottled saprolite containing large qz fragments, highly angular and appearing brecciated, qz, heavily weathered leucogranite, also bt rich granite	mottled saprolite containing large qz fragments, highly angular and appearing brecciated	-
MOREENIA	5243659	EL2067	574760	6200456	2	1.2	leucogranite, lag horizons, qz, heavily weathered sandstone	lag horizons	MC sample

MCREENA 524368 EL2007 57425 8201864 2 2 0.75	Arraia	Commo	Tananana	AMG	AMG	Stream	Book	 		
MOREPMA \$243600 EL2007 574891 \$200808 2.5 0.5 abundant lag (asmple), yellow clay -	Area	Sampno	renement				Bank	Float	Outoron	Comments
MOREPAN 524966 EL2067 573259 5200862 2	MODEENIA	5242660	EL 2067			_ ` `		La contraction of the contractio	Outcrop	<u> </u>
Company Comp									obundant los and valleur	
MOREDNA 524366 EL2067 573670 6200589 4 0.1								abundant lag and yellow day nonzons		
## MOREENA 243864 EL2067 574572 6198854 1.75 1.5 1.5 minor leg, clay, silt, milky white qz (float rare) - - - - - -	MOREENIA	5243662	EL2067	573253	6200852	20	0.1	-		very broad poorly defined valley drainage, well wooded
MOREENA S243668 EL2007 S72868 S19590 2 0.1 Qr. some fragments with Mn staining on fracture -	MOREENIA	5243663	EL2067	571870	6200589	4	0.1	•		· · · · · · · · · · · · · · · · · · ·
MOREENA 524366 EL2067 57286 619596 2 0.1 0.1 0.1 0.1 0.1 0.1 0.1 0.1 0.1 0.1 0.1 0.1 0.1 0.1 0.1 0.1 0.1 0.1 0.1 0.1 0.1 0.1 0.1 0.1 0.1 0.1 0.1 0.1 0.1 0.1 0.1 0.1 0.1 0.1 0.1 0.1 0.1 0.1 0.1 0.1 0.1 0.1 0.1 0.1 0.1 0.1 0.1 0.1 0.1 0.1 0.1 0.1 0.1 0.1 0.1 0.1 0.1 0.1 0.1 0.1 0.1 0.1 0.1 0.1 0.1 0.1 0.1 0.1 0.1 0.1 0.1 0.1 0.1 0.1 0.1 0.1 0.1 0.1 0.1 0.1 0.1 0.1 0.1 0.1 0.1 0.1 0.1 0.1 0.1 0.1 0.1 0.1 0.1 0.1 0.1 0.1 0.1 0.1 0.1 0.1 0.1 0.1 0.1 0.1 0.1 0.1 0.1 0.1 0.1 0.1 0.1 0.1 0.1 0.1 0.1 0.1 0.1 0.1 0.1 0.1 0.1 0.1 0.1 0.1 0.1 0.1 0.1 0.1 0.1 0.1 0.1 0.1 0.1 0.1 0.1 0.1 0.1 0.1 0.1 0.1 0.1 0.1 0.1 0.1 0.1 0.1 0.1 0.1 0.1 0.1 0.1 0.1 0.1 0.1 0.1 0.1 0.1 0.1 0.1 0.1 0.1 0.1 0.1 0.1 0.1 0.1 0.1 0.1 0.1 0.1 0.1 0.1 0.1 0.1 0.1 0.1 0.1 0.1 0.1 0.1 0.1 0.1 0.1 0.1 0.1 0.1 0.1 0.1 0.1 0.1 0.1 0.1 0.1 0.1 0.1 0.1 0.1 0.1 0.1 0.1 0.1 0.1 0.1 0.1 0.1 0.1 0.1 0.1 0.1 0.1 0.1 0.1 0.1 0.1 0.1 0.1 0.1 0.1 0.1 0.1 0.1 0.1 0.1 0.1 0.1 0.1 0.1 0.1 0.1 0.1 0.1 0.1 0.1 0.1 0.1 0.1 0.1 0.1 0.1 0.1 0.1 0.1 0.1 0.1 0.1 0.1 0.1 0.1 0.1 0.1 0.1 0.1 0.1 0.1 0.1 0.1 0.1 0.1 0.1 0.1 0.1 0.1 0.1 0.1 0.1 0.1 0.1 0.1 0.1 0.1 0.1 0.1 0.1 0.1 0.1 0.1 0.1 0.1 0.1 0.1 0.1 0.1 0.1 0.1 0.1 0.1 0.1 0.1 0.1 0.1 0.1 0.1 0.1 0.1 0.1 0.1 0.1 0.1 0.1 0.1 0.1 0.1 0.1 0.1 0.1 0.1 0.1 0.1 0.1 0.1 0.1 0.1 0.1 0.1 0.1 0.1 0.1 0.1 0.1 0.1 0.1 0.1 0.1 0.1 0.1 0.1 0.1 0.1 0.1 0.1 0.1 0.1 0.1	MOREENIA	5243664	EL2067	574572	6198854	1.75	1.5	minor lag, clay, silt, milky white qz (float rare)	•	<u> </u>
MOREENA S243667 S24067 S2207 S2007	MOREENIA	5243665	EL2067	the second second		20	0.2	·		broad well vegetated major valley system
MOREENA 524368 EL2067 573196 6196309 8 8 8 8 8 8 8 8 8	MOREENIA	5243666	EL2067	572866	6195969	2	0.1	1, .	-	poorly defined valley drainage
MOREDNA 5243708 EL2067 592714 6208361 - - Silt-sand - Silt-sand - Silt-sand - Silt-sand - Silt-sand - Silt-sand - Silt-sand - Silt-sand - Silt-sand - Silt-sand - Silt-sand - Silt-sand - Silt-sand - Silt-sand - Silt-sand - Silt-sand - Silt-sand - Silt-sand - Silt-sand -	MOREENIA	5243667	EL2067	572977	6195970	5	0.1	-	-	OB material, sandy creek, poorly defined transient MC, evidence of significant cultivation induced salinity
MOREENIA 5243709 EL2067 59258 6208244 10 1.5 Quartz, siliceous fg rock -	MOREENIA	5243668	EL2067	573196	6196309	8	0.4		containing angular qz fragments, weathered leucogranite may be developing to mottled or	
MOREENA 5244091 EL2067 591377 6214573 30 0.5 0.5 0.5 0.5 0.5 0.5 0.5 0.5 0.5 0.5 0.5 0.5 0.5 0.5 0.5 0.5 0.5 0.5 0.5 0.5 0.5 0.5 0.5 0.5 0.5 0.5 0.5 0.5 0.5 0.5 0.5 0.5 0.5 0.5 0.5 0.5 0.5 0.5 0.5 0.5 0.5 0.5 0.5 0.5 0.5 0.5 0.5 0.5 0.5 0.5 0.5 0.5 0.5 0.5 0.5 0.5 0.5 0.5 0.5 0.5 0.5 0.5 0.5 0.5 0.5 0.5 0.5 0.5 0.5 0.5 0.5 0.5 0.5 0.5 0.5 0.5 0.5 0.5 0.5 0.5 0.5 0.5 0.5 0.5 0.5 0.5 0.5 0.5 0.5 0.5 0.5 0.5 0.5 0.5 0.5 0.5 0.5 0.5 0.5 0.5 0.5 0.5 0.5 0.5 0.5 0.5 0.5 0.5 0.5 0.5 0.5 0.5 0.5 0.5 0.5 0.5 0.5 0.5 0.5 0.5 0.5 0.5 0.5 0.5 0.5 0.5 0.5 0.5 0.5 0.5 0.5 0.5 0.5 0.5 0.5 0.5 0.5 0.5 0.5 0.5 0.5 0.5 0.5 0.5 0.5 0.5 0.5 0.5 0.5 0.5 0.5 0.5 0.5 0.5 0.5 0.5 0.5 0.5 0.5 0.5 0.5 0.5 0.5 0.5 0.5 0.5 0.5 0.5 0.5 0.5 0.5 0.5 0.5 0.5 0.5 0.5 0.5 0.5 0.5 0.5 0.5 0.5 0.5 0.5 0.5 0.5 0.5 0.5 0.5 0.5 0.5 0.5 0.5 0.5 0.5 0.5 0.5 0.5 0.5 0.5 0.5 0.5 0.5 0.5 0.5 0.5 0.5 0.5 0.5 0.5 0.5 0.5 0.5 0.5 0.5 0.5 0.5 0.5 0.5 0.5 0.5 0.5 0.5 0.5 0.5 0.5 0.5 0.5 0.5 0.5 0.5 0.5 0.5 0.5 0.5 0.5 0.5 0.5 0.5 0.5 0.5 0.5 0.5 0.5 0.5 0.5 0.5 0.5 0.5 0.5 0.5 0.5 0.5 0.5 0.5 0.5 0.5 0.5 0.5 0.5 0.5 0.5 0.5 0.5 0.5 0.5 0.5 0.5 0.5 0.5 0.5 0.5 0.5 0.5 0.5 0.5 0.5 0.5 0.5 0.5 0.5 0.5 0.5 0.5 0.5 0.5 0.5 0.5 0.5 0.5 0.5 0.5 0.5 0.5 0.5 0.5 0.5 0.5 0.5 0.5 0.5 0.5 0.5 0.5 0.5 0.5 0.5 0.5 0.5 0.5 0.5 0.5 0.5 0.5 0.5 0.5 0.5 0.5 0.5 0.5 0.5 0.5 0.5 0.5 0.5 0.5 0.5 0.5 0.5 0.5 0.5 0.5	MOREENIA	5243708	EL2067	592714	6208361	-	-	Silt-sand	4	Broad valley drainage; Wet
MOREENA 5244091 EL2067 591377 6214573 30 0.3 Lateritic ironstone - - Memory Memory Memory - Memory Memory Memory Memory - Memory Memory Memory Memory Memory - Memory Memory <th< td=""><td>MOREENIA</td><td>5243709</td><td>EL2067</td><td>592588</td><td>6208244</td><td>10</td><td>1.5</td><td>Quartz, siliceous fg rock</td><td>•</td><td></td></th<>	MOREENIA	5243709	EL2067	592588	6208244	10	1.5	Quartz, siliceous fg rock	•	
MOREENIA 5244092 EL2067 591320 6213779 2 0.3 sand, Fe-lag - wheat paddock MOREENIA 5244094 EL2067 590452 6215143 4 1.3 sand, Fe-lag - wheat paddock MOREENIA 5244094 EL2067 590055 6214503 - - sand - broad anastomising drainage MOREENIA 5244095 EL2067 590051 6214828 - - sand, Fe-lag - weakly deformed granite MOREENIA 5244095 EL2067 586204 6214838 20 1 lateritised Tertiary sst, Fe-lag weakly deformed granite - MOREENIA 5244095 EL2067 58759 6215199 3 0.4 granite -			EL2048	586632	6209741	3	0.5	•	•	
MOREENIA 5244093 EL2067 590462 6215143 4 1.3 sand, Fe-lag - wheat paddock MOREENIA 5244095 EL2067 590051 6214828 - - sand, Fe-lag - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -	MOREENIA	5244091	EL2067	591377	6214573	30	0.3	Lateritic ironstone	•	
MOREENA 5244094 EL2067 590055 6214503 - sand - broad anastomising drainage MOREENA 5244095 EL2067 59021 6214828 - sand, Fe-lag - wakly deformed granite MOREENA 5244097 EL2067 587251 6215199 3 0.4 granite - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -	MOREENIA	5244092	EL2067			2	0.3	sand, Fe-lag	-	wheat paddock
MOREENIA 5244095 EL2067 590021 6214828 - - sand, Fe-lag - weakly deformed grante MORIENIA 5244096 EL2067 586204 6214988 20 1 lateritised Tertiary sst, Fe-lag weakly deformed grante MORIENIA 5244097 EL2067 587251 6215199 3 0.4 granite - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -	MOREENIA	5244093	EL2067	590462	6215143	4	1.3	sand, Fe-lag	•	wheat paddock
MOREENIA 5244096 EL2067 586204 6214838 20 1 lateritised Tertiary sst, Fe-lag weakly deformed granite	MOREENIA	5244094	EL2067	590055	6214503	•	-	sand	-	broad anastomising drainage
MOREENIA 5244097 EL2067 587251 6215199 3 0.4 granite - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -	MOREENIA	5244095	EL2067	590021	6214828		4	sand, Fe-lag	-	
MOREENIA 5244098 EL2067 587613 6215302 6 0.4 granite - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -	MOREENIA	5244096	EL2067	586204	6214838	20	1	lateritised Tertiary sst, Fe-lag	weakly deformed granite	
MOREENIA 5244099 EL2067 587599 6216137 4 1.5 granite, qtz - - Moreina - Moreina - Moreina - Moreina - Moreina - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -	MOREENIA	5244097	EL2067	587251	6215199	3	0.4	granite	•	
MOREENIA 5244100 EL2067 591334 6217894 1 0.2 calcrete - wheat paddock MOREENIA 5244101 EL2067 591276 6216485 - - - - - broad outwash plain MOREENIA 5244102 EL2067 588559 6215636 40 1 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -	MOREENIA	5244098	EL2067	587613	6215302	6	0.4	granite	-	
MOREENIA 5244101 EL2067 591276 6216485 - - - - - broad outwash plain MOREENIA 5244102 EL2067 588559 6215636 40 1 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -	MOREENIA	5244099	EL2067	587599	6216137	4	1.5	granite, qtz	•	
MOREENIA 5244102 EL2067 588559 6215636 40 1 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - <t< td=""><td>MOREENIA</td><td>5244100</td><td>EL2067</td><td>591334</td><td>6217894</td><td>1</td><td>0.2</td><td>calcrete</td><td>-</td><td>wheat paddock</td></t<>	MOREENIA	5244100	EL2067	591334	6217894	1	0.2	calcrete	-	wheat paddock
MOREENIA 5244103 EL2067 585450 6214328 4 0.2 granite, ferrug. saprolite - - - - MOREENIA 5244104 EL2067 584291 6216339 10 1.2 Ironstone, qtz, granite, granitic gniess - up stream of rubbish dump MOREENIA 5244105 EL2067 586119 6217767 3 1.2 qtz, granite - up stream of rubbish dump MOREENIA 5244106 EL2067 586729 6217994 8 1 qtz, granite - - - MOREENIA 5244107 EL2067 586082 6216963 8 0.4 - - - - - MOREENIA 5244108 EL2067 584774 6218089 - - granite - - - - - -	MOREENIA	5244101	EL2067	591276	6216485	-	-	•	-	broad outwash plain
MOREENIA 5244103 EL2067 585450 6214328 4 0.2 granite, ferrug. saprolite - - - - MOREENIA 5244104 EL2067 584291 6216339 10 1.2 Ironstone, qtz, granite, granitic gniess - up stream of rubbish dump MOREENIA 5244105 EL2067 586119 6217767 3 1.2 qtz, granite - up stream of rubbish dump MOREENIA 5244106 EL2067 586729 6217994 8 1 qtz, granite - - - MOREENIA 5244107 EL2067 586082 6216963 8 0.4 - - - - - MOREENIA 5244108 EL2067 584774 6218089 - - granite - - - - - -	MOREENIA	5244102	EL2067	588559	6215636	40	1			
MOREENIA 5244104 EL 2067 584291 6216539 10 1.2 Ironstone, qtz, granite, granitic gniess - MOREENIA 5244105 EL 2067 586119 6217767 3 1.2 qtz, granite - up stream of rubbish dump MOREENIA 5244106 EL 2067 586729 6217994 8 1 qtz, granite - - - MOREENIA 5244107 EL 2067 586082 6216963 8 0.4 - - - - MOREENIA 5244108 EL 2067 584774 6218089 - - granite - - -			EL2067	585450	6214328	4	0.2	granite, ferrug. saprolite	-	
MOREENIA 5244105 EL2067 586119 6217767 3 1.2 qtz, granite - up stream of rubbish dump MOREENIA 5244106 EL2067 586729 6217994 8 1 qtz, granite - - - MOREENIA 5244107 EL2067 586082 6216963 8 0.4 - - - - MOREENIA 5244108 EL2067 584774 6218089 - - granite - - broad	MOREENIA	5244104	EL2067	584291	6216539	10	1.2		-	
MOREENIA 5244106 EL2067 586729 6217994 8 1 qtz, granite - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -						3			_	up stream of rubbish dump
MOREENIA 5244107 EL2067 586082 6216963 8 0.4 - - - - broad MOREENIA 5244108 EL2067 584774 6218089 - - granite - broad		-				8				• ,
MOREENIA 5244108 EL2067 584774 6218089 granite - broad						8		•	•	
			- 55					granite	<u> </u>	broad
						2	0.5	granitic sand, qtz	•	over bank silt

Area	Samono	Tenement	AMG	AMG	Stream	Bank			
Alea	Sampilo	renement	East	North	Width (m)		Float	Outcrop	Comments
MOREENIA	5244111	EL2067		6213893	1	0.5	sand	- Odicrop	over bank silt
MOREENIA				6214696	2.5	0.3	granitic sand, Fe lag	granite	Over parik siit
MOREENIA				6214711	10	0.3	granitic sand	granite	
MOREENIA	1			6217939	2.5	0.4	granitic sand		· · · · · · · · · · · · · · · · · · ·
MOREENIA			-	6217113	12	0.4	bleached clay wd granite, Tertiary ironstone		
MOREENIA				6210100	3	1.5	granite (most with >50% fspar), some with	possibly gneissic material	major drainage
Wiering	3241113	-22207	00.020	3213133			gneissic affinity,granite may contain mafic (bt + hbde) enclaves)	possibly gitelesic material	major diamage
MOREENIA	5244117	EL2067	581800	6210050	5	3	abundant float - ferr duricrust, leucogranite, qz, pallid saprolite after qzte, gneissic material from locality 5244116, often bt/hbde rich and with granitic veining, pelitic schist	-	-
MOREENIA	5244118	EL2067	580250	6209825	1.5	2	qz, leucogranite, sand and grit, Quaternary stream deposits, with saprolite, lag, qzte + granite fragments within coarsely laminated sand horizons	-	-
MOREENIA	5244119			6210500	2	0.5	-	-	poorly defined, possibly >1 MC, both MC and OB combination sample
MOREENIA	5244120	EL2067	580950	6211550	1.5	2	abundant lag as float and within clay banks, yellow clay, ferr duricrust fragments	-	OB sample
MOREENIA	5244121	EL2067	580500	6211125	1	0.3	lag, glass like sugary qz	-	drainagewithin paddock, downstream from dam
MOREENIA	5244122			6217625	1	0.2	sand and grit	•	OB sample within paddock
MOREENIA	5244123	EL2067	578525	6216750	1	0.2		-	likely human influenced, very broad, secondary valley drainage within fields
MOREENIA	5244124	EL2067	579250	6216650	1	0.1	•	-	shallow system through scrubland
MOREENIA	5244125	EL2067	579175	6216100	1	0.4	abundant lag, as float and within well defined layers within creek banks, calcrete, some containing lag fragments	-	•
MOREENIA	5244126	EL2067	580025	6217625	5	0.1	•	-	poorly defined very shallow broad valley drainage, well vegetated
MOREENIA	5244127	EL2067	580225	6218150	6	0.2	•	-	well vegetated, multichannel system, shallow and poorly defined
MOREENIA	5244128	EL2067	578400	6221875	4	0.2	minor lag in adjacent paddock	-	MC and OB sample, broad, shallow valley system
MOREENIA	5244129	EL2067	579825	6221200	3	0.2	ferr duricrust fragments most with cutan, white, fg calcrete - some containing lag fragments	-	shallow valley drainage, within fields
MOREENIA	5244130	EL2067	581300	6221425	4	0.5	•	<u>- </u>	between 2 large dams, may have human influence
MOREENIA	5244131	EL2067	570825	6211775	1	0.2	lag and calcrete	<u> </u>	poorly defined valley drainage
MOREENIA	5244132	EL2067	571050	6210950	2	0.2	ferr duricrust and large mottles, weathered and Fe stained qz	-	poorly defined valley drainage within fields
MOREENIA	5244133	EL2067	572900	6212650	1	0.1	abundant black lag (pisolithic)	-	material well compacted, poorly defined valley drainage within cultivated fields

Area	Sampno	Tenement	AMG	AMG	Stream	Bank			
	•		East	North	Width (m)	Height (m)	Float	Outcrop	Comments
MOREENIA	5244134	EL2067	580350	6225900	20	0.1	•	-	broad, shallow but major drainage, no real MC, floodplain sample, elevated salinity
MOREENIA	5244135	EL2067	581650	6226300	2	0.4	-		shallow valley drainage within cultivated field
MOREENIA	5244136	EL2067	577400	6222150	8	0.2	lag and calcrete in adjacent paddocks	-	small MC within broad system, well vegetated, both OB and MC sample
MOREENIA	5244137	EL2067	576650	6223000	4	0.2	lag in adjacent fields	-	shallow, well grassed valley drainage, adjacent to cultivated fields
MOREENIA	5244138	EL2067	576850	6223400	1	1	abundant lag + qz fragments, large mottles and pisoliths, most with cutan	-	MC sample, variable bank height
MOREENIA	5244139	EL2067	576300	6222700	2	0.1	abundant lag, calcrete + qz float (qz sugary and Fe stained)	-	well vegetated valley drainage
MOREENIA	5244140	EL2067	574050	6221600	0.5	0.1	lag, large mottles some with cutan, calcrete, qz, sugary qz breccia	-	very poorly defined valley drainage within fields
MOREENIA	5244141	EL2067	574550	6222850	2	0.1	•		not a creek! paddock with very poorly defined drainage valley, well grassed
MOREENIA	5244142	EL2067	571150	6223475	2	0.3	mottle saprolite and duricrust, ferr duricrust, massive white, fg calcrete, lag in adjacent paddocks	-	shallow valley drainage
MOREENIA	5244143	EL2067	570900	6221450	3.5	0.6	lag in creek banks, most with cutan, white to beige calcrete, qz, most lag pisolithic	-	major valley drainage with well defined MC
MOREENIA	5244144	EL2067		6220500	2	0.2	lag in adjacent fields, some calcrete, qzte ?some with vague foliation	-	well grassed within cultivated fields
MOREENIA	5244145	EL2067	591600	6212000	6	0.2	lag and qz in adjacent paddock		poorly defined valley drainage near to cultivated fields well grassed
MOREENIA	5244146	EL2067	590600	6211250	2	0.1	•	-	poorly defined valley drainage within fields, some human influence, well grassed
MOREENIA	5244147	EL2067	589750	6218900	1.5	0.2	no natural float other than very minor amounts of lag, calcrete and qz grit	-	well grassed, proximal to cultivated fields
MOREENIA	5244148	EL2067	589200	6220150	0.75	0.2	qz, leucogranite (qz + fspar only remain), ferr duricrust	-	minor drainage within cultivated fields, material quite sandy
MOREENIA	5244149	EL2067	588300	6220000	3	0.1	crushed qz fragments, grit and white qz only	-	not a creek! within cultivated field, very poorly defined valley drainage
and the second	5244150	EL2067	589600	6220850	2	0.1	minor ferr duricrust fragments, qz, grit		not a creek! within cultivated field, very sandy
MOREENIA	5244151	EL2067		6220700	1	0.4	grit and qz fragments only	-	MC within shallow valley drainage, well grassed within fields
MOREENIA	5244152	EL2067	588400	6220550	2	0.5	qz grit, qzte, qz (Often highly ferruginous)		MC sample, broad major drainage, evidence for elevated salinity
MOREENIA	5244167	EL2067	588800	6217650	3	1.5	qz grit +minor lag float, yellow clay	-	major drainge channel, well vegetated
MOREENIA	5244168	EL2067		6216950	6	0.5	-	-	OB sample, poorly defined MC, broad but well defined valley drainage, well vegetated
MOREENIA	5244169	EL2067		6216850	4	0.3	qz, qzte, large mottles	·•	small MC within shallow drainage valley
MOREENIA	5244170	EL2067	590150	6216725	5	0.4	qz, ferr duricrust, ferr and pallid saprolite	<u> </u>	OB sample, elevated salinity, near to cultivated fields

Area	Sampno	Tenement	AMG	AMG	Stream	Bank		<u> </u>	
	•		East	North	Width (m)	Height (m)	Float	Outcrop	Comments
MOREENIA	5244171	EL2067	588425	6215150	1	0.3		kspar, bt, mu, qz granitic gneiss with pegmatitic veining, often with good foliation defined by quatrzofeldspathic layers, variable across outcrop, some more felsic enclaves containing gt porphyroblasts	minor well vegetated drainage
MOREENIA	5244172	EL2067	588625	6215000	3	0.4	-	quartzofeldspathic bt gneiss, some with pegmatitic veining. Oc varies along length of the creek	OB material, well vegetated, poorly defined MC, galvanized pipes in creek, and junk upstream - likely contamination
MOREENIA	5244173	EL2067	588150	6214300	5	0.2	qz	-	material quite sandy, valley drainage, well wooded, with complex MC system
MOREENIA	5244174	EL2067	587975	6214350	4	1.5	qzte, sugary textured white qz		major valley drainage, , well wooded, elevated salinity, OB sample
MOREENIA	5244175	EL2067	588225	6213900	3	0.5	leucogranite, qz, pallid saprolite, fg gneiss/granitic breccia, ferr saprolite, para- amphibolite (vague foliation only, some with pegmatitic veining)	-	-
MOREENIA	5244176	EL2067	589850	6214100	20	0.2	qz grit and minor qz fragments	-	elevated salinity, broad, poorly defined drainage within grassed valley system, OB sample
MOREENIA	5244177	EL2067	591800	6220650	4	0.2	mottle and qz grit only		well grassed valley drainage
MOREENIA	5244178	EL2067	591650	6221100	5	0.2	ferr and limonitic saprolite after qzte, duricrust fragments in adjacent fields	-	well grassed valley drainage
MOREENIA	5244179	EL2067	591750	6221275	3	0.2	ferr duricrust after qzte, qz, minor mottle lag	-	well grassed valley drainage within cultivated fields
MOREENIA	5244181	EL2067	605925	6216100	30	0.1	calcrete in adjacent fields	-	vegetated, within paddocks, broad shallow valley drainage
MOREENIA	5244182	EL2067	602525	6216000	3	0.8	qz grit, abundant calcrete/limestone in adjacent fields	-	narrow MC within broad valley system, elevated salinity, OB sample
MOREENIA	5244183	EL2067	602900	6222725	1.5	0.4	qz grit, minor lag (mostly pisolithic, some mottles)	-	narrow MC through broad valley drainage and cultivated fields, limited drainage from adjacent hills
MOREENIA	5244184	EL2067	602600	6224500	2.5	0.3	calcrete, duricrust and ferr saprolite after qzte in adjacent fields	-	poorly defined valley drainage, well grassed within fields
MOREENIA	5244185	EL2067	588400	6226225	2	0.1	abundant lag float (pisoliths and large mottles)	-	within cultivated fields, drains hill containing rubbish so possible Zn contamination noted
MOREENIA	5244186	EL2067	587250	6226275	1	0.2	•	-	very poorly defined valley drainage, well grassed withir fields, may have had human influence
MOREENIA	5244187	EL2067	586000	6225975	1.5	0.2	abundant lag in soil layers, qz, calcrete, saprolite after sandstone	-	within cultivated fields, may have human influence

Area	Sampno	Tenement	AMG	AMG	Stream	Bank			
			East	North		Height (m)	Float	Outcrop	Comments
MOREENIA	5244188	EL2067	584650	6224500	2	0.2	calcrete, ferr saprolite after sandstone/qzte, minor qz	-	not really a creek! poorly defined valley drainage within fields
MOREENIA	5244189	EL2067	585050	6224925	1	0.1	qz grit, calcrete, qzte, Fe stained qz breccia	-	not a creekl very poorly defined valley drainage through cultivated fields
MOREENIA	5244190	EL2067		6224925	2	0.2	lag, heavily weathered qzte, saprolite after qzte	•	very poorly defined valley drainage, channel course may have been altered
MOREENIA	5244191	EL2067		6224675	2	0.2	minor lag only		very poorly defined valley drainage through fields
MOREENIA	5244192			6224575	30	0.2	fg qzte, minor lag float + some qz grit	•	broad, shallow drainage, elevated salinity
MOREENIA	5244193	EL2067		6224125	1.5	0.4	minor lag and qz fragments only		well grassed, poorly defined valley system
MOREENIA	5244194	EL2067	588400	6223825	2	0.3	lag	•	MC within shallow poorly defined valley drainage, well grassed near to cultivated fields
MOREENIA	5244195	EL2067	587775	6223250	8	0.2	lag, large mottles and duricrust fragments	-	well wooded and grassed, poorly defined MC, OB sample
MOREENIA	5244196	EL2067	587400	6222125	4	0.3	minor lag + qz grit only	•	well grassed and well wooded valley drainage
MOREENIA	5244197	EL2067	587250	6221975	2	0.3	lag + qz only	•	MC within shallow valley drainage, well grassed within paddocks
MOREENIA	5244198	EL2067	587200	6221675	1.5	0.6	qz grit, lag, pallid to mottled saprolite after qzte	•	well wooded, near to cultivated fields
MOREENIA	5244199	EL2067	589550	6210425	4	0.3	•	-	elevated salinity, OB +MC sample, MC material quite sandy, major drainage valley with broad OB zone
MOREENIA	5244200	EL2067	588500	6210775	4	1.5	cg holocrystalline leucogranite, both fresh and weathered, qz (some sugary)	-	major balley drainage, well defined MC
MOREENIA	5244551	EL2067	601290	6209878	2	1	qtz, well layered amph, granite	peg	
MOREENIA	5244552	EL2067	601094	6210228	2	1	qtz, bio-q schist/slate	peg	
MOREENIA	5244553	EL2067	599253	6210105	5	broad	peg, bio-q crenulated schist, banded amph, minor qtz		
MOREENIA	5244554	EL2067	599160	6210190	1	0.5	salt, q-fels-bio-musc peg, q-musc-bio schist, qtz, amph	q-fspar-musc-biot peg	salt
MOREENIA	5244555	EL2067	599806	6210489	10	0.5	peg, bio-q-misc-fspar peg, qtz		wet sample
MOREENIA	5244556	EL2067	600060	6211059	3	2	salt, musc-bio-qtz-schist, q-fels rock, peg	bio-musc-q schist +qtz veins and boudains	salt, wet sample
MOREENIA	5244557	EL2067	599898	6211335	1	broad	q-fels-(+/-musc) peg,	peg	
MOREENIA	5244558			6211449	1	broad	qtz, calcrete, q-fels-(+/-musc) peg	q-fels-(+/-musc) peg	
MOREENIA	5244559	EL2067	601210	6211715	1	broad	qtz, q-fels-(+/-musc) peg		rubbish present below site
MOREENIA	5244560	EL2067	599497	6213648	1	broad	qtz, q-fels fg peg,	q-fels-(musc) fine-crse gn peg/gneiss? with peg vn	
MOREENIA	5244561	EL2067	599143	6212573	12	2	qtz, musc-bio-q schist, fels-q-(+/-musc) peg	q-fels-(musc) fine-crse gn peg/gneiss? with peg vn	wet sample
MOREENIA	5244562	EL2067	599079	6212441	2	1	peg, qtz, bio-musc-q schist	peg	
			599229	6212025	5		bio-q schist, q-fspar granitic peg with qtz boudains, q-fels peg, qtz, weath banded amph		

Area	Sampno	Tenement	AMG	AMG	Stream	Bank			
			East	North	Width (m)	Height (m)	Float	Outcrop	Comments
MOREENIA	5244564		599606	6212017	. 6	1.5	q-fels peg, bio-q schist/ mylonite ?	peg	wet sample
MOREENIA	5244565	EL2067	598685	6211247	0.5	broad	q-fels peg, qtz, granitic peg		wet sample
	5244566	EL2067	600772	6213126	2	0.5	peg, bio-q mylonite	q-fels-musc peg	rubbish present below site
MOREENIA	5244567	EL2067	600828	6212831	7	1	peg, qtz, bio-q schist, fg schist	nearby v.weath fels peg	
and the same of th	5244568	EL2067	602503	6213414	broad		qtz, calcrete, q-fels peg	(mylonite), (q-fels peg)	
MOREENIA	5244569	EL2067	602784	6213634	10	1	q-fels crse gn rock, weath fg peg, qtz	mylonite with q-fels peg veins	rubbish present below site
MOREENIA	5244570	EL2067	602911	6213633	1	1	layered amph, q-fels peg, calcrete	crenulated schist with q vn (mylonite?)	
MOREENIA			604003	6212331	broad		q-fels peg, qtz, amph		
MOREENIA	5244572	EL2067	604260	6212592	5	0.5	q-fels peg, amph	mylonite	wet sample
MOREENIA			603709	6213253	broad		amph, fels, qtz	mylonite	
MOREENIA	5244574	EL2067	603180	6212923	3	broad	qtz, fels, mylonite?		
	5244575	The second second	603731	6211413	2	broad	peg		
MOREENIA	5244590			6228464	flat		calcrete		
MOREENIA	5244591	EL2067		6227216	broad		calcrete		
MOREENIA				6226307	5	broad	calcrete		
MOREENIA	5244593	EL2067		6224092	0.5	broad	qtz, calcrete, fe-stone	(calcrete)	<u> </u>
MOREENIA				6222696	1	broad	fe-stone		
MOREENIA				6220852	broad		qtz, fe-stone		
MOREENIA				6220970	1	broad	qtz, fe-stone, calcrete		
MOREENIA				6219694	0.5	broad	qtz, lesser fe-stone		
MOREENIA		EL2067		6218960	broad		qtz, lesser fe-stone		
MOREENIA				6218634	broad		qtz, lesser fe-stone		
	5244600			6219970	broad		q-fels rock, qtz		
MOREENIA		EL2067		6221423	2	broad	fe-stone, limestone(possibly weath musc-q-fels gneissic peg)	fe-stone	
	5244602	EL2067		6219889	flat				
	5244603	EL2067		6224941	11	0.25	qtz, calcrete, fe-stone		· · · · · · · · · · · · · · · · · · ·
	5244604	EL2067		6226920	1	broad	qtz, fe-stone		
MOREENIA		EL2067		6227061	flat		calcrete, lesser fe-stone		
	5244606	EL2067		6225474	flat		calcrete		
	5244607	EL2067		6225464	flat		calcrete, minor qtz		
MOREENIA	5244612	EL2067		6209080	flat	· · · · · · · · · · · · · · · · · · ·			
	5244613			6208600	3	11	qtz, fels		
MOREENIA	5244614	EL2067	-	6208420	3	1	q-fels granitic gneiss		
MOREENIA	5244615	EL2067	595267	6208230	2	1	musc-blot schist with q-vn (mylonitic?), q-fels- musc crse gn granitic rock		·
MOREENIA	5244616	EL2067	595450	6208131	5	. 1	qtz, fels, q-fels-musc granitic gneiss, mylonite		wet sample
MOREENIA	5244617	EL2067	595872	6209605	1	1	granite (sometimes gneissic texture)		
MOREENIA	5244618	EL2067	595944	6209360	1	1	qtz, crse gn q-fels rock, lesser musc-bio-q schist		wet sample

Area	Sampno	Tenement	AMG	AMG	Stream	Bank			
			East	North	Width (m)	Height (m)	Float	Outcrop	Comments
MOREENIA	5244619	EL2067	596095	6209381	1	2	q-fels crse gn rock		wet sample
MOREENIA	5244620	EL2067	592772	6209491	2	broad	q-fels crse gn rock, qtz, calcrete	q-fels weath. pegmatitic gneiss	
MOREENIA	5244621	EL2067	592910	6211215	0.5	broad	ironstone, qtz		
MOREENIA	5244622	EL2067	593880	6212991	2	0.5	hem/hem-goeth pisolites, ironstone, lesser qtz		pisolites appear fairly close to insitu as high percent have goeth. coating and are only present on banks. Lag sample taken.
MOREENIA	5244623	EL2067	595022	6214008	flat		ironstone, calcrete		
MOREENIA	5244624	EL2067	597663	6217673	flat				
MOREENIA	5244625	EL2067	598698	6215954	flat		(claicrete)		
MOREENIA	5244626	EL2067	598787	6215425	flat				
MOREENIA	5244627	EL2067	597183	6215322	2	1	calcrete, qtz, fels, ironstone, pisolites		
MOREENIA	5244628	EL2067	596579	6214243	flat		calcrete		
MOREENIA	5244629	EL2067	598903	6214322	3	0.5	q-fels-(musc) rock		wet sample
MOREENIA	5244630	EL2067	598397	6213925	7	broad	calcrete, q-fels granitic gneiss, fg q-fels rock, q-fels peg, qtz	q-fels-musc gneiss with megacrysts of fels and qtz	salt, wet sample
MOREENIA	5244631	EL2067	598422	6214044	broad		q-fels-(musc-bio) granitic gneiss		
MOREENIA	5244632	EL2067	599189	6214457	flat		q-fels crse gn granite, sometimes layered		minor rubbish
MOREENIA	5244633	EL2067	601900	6228250	1	0.4	calcrete, qz grit + gravel	calcrete	valley drainage in fields
MOREENIA	5244634	EL2067	601750	6228875	2.5	0.5	calcrete, lag + qz grit	calcrete	well defined MC of broad, shallow valley drainage
MOREENIA	5244635	EL2067	602375	6228850	2	0.2	calcrete, minor qz grit + lag	-	material quite sandy, poorly defined valley drainage in fields
MOREENIA	5244636	EL2067	607450	6228650	6	0.2	calcrete, weathered qzte, some leucogranite in adjacent paddocks	-	broad valley drainage within fields
MOREENIA	5244637	EL2067	606275	6230425	2.5	0.2	-	-	altered valley type drainage, artificially vegetated, quite sandy
MOREENIA	5244801	EL2067	574817	6218755	2	0.2	lag, abundant within upper soil horizons	•	well grassed, valley drainage within cultivated fields
MOREENIA	5244802	EL2067	574675	6219556	4	0.2	qz, abundant lag within upper soil horizons	-	poorly defined shallow valley drainage, within cultivated fields
MOREENIA	5244803	EL2067	575851	6220484	3	0.1	lag	-	valley drainage within cultivated fields
MOREENIA	5244804	EL2067	578783	6223061	10	0.1	lag, ferr duricrust	-	very poorly defined valley drainage, near to cultivated fields
MOREENIA	5244805	EL2067	582234	6223122	1.8	0.4	lag	-	near to cultivated fields
MOREENIA	5244806	EL2067	581329	6223140	3	0.2	•	-	valley system, well grassed drainage channel
MOREENIA	5244807	EL2067	581413	6222354	2	1.5	abundant lag throughout creek banks (most pisolithic with cutan)	-	evidence for elevated salinity
MOREENIA	5244808	EL2067	581324	6222211	1	0.2	lag, compacted claystone		MC within poorly defined valley drainage
MOREENIA	5244809	EL2067	587418	6221263	2	0.1	rare pink qz, fg ironstone breccia after granite	-	paddock! poorly defined valley drainage
	5244810		-	6220616	10	0.5	lag and qz gravel	-	OB sample, evidence for elevated salinity

Area	Sampno	Tenement	AMG	AMG	Stream	Bank			
			East	North	Width (m)	Height (m)	Float	Outcrop	Comments
MOREENIA	5244811	EL2067	586631	6220655	2.5	0.2	quartzitic ironstone, lag	calcrete; ironstone outcrops on adjacent hill above both mottled and pallid saprolite horizons (quarry)	valley drainage
MOREENIA	5244812	EL2067	582204	6220033	5	0.3	ferr saprolite in adjacent paddocks	•	well defined valley drainage, well grassed
MOREENIA	5244813		583604	6219221	8	0.2	•	-	both OB and MC material, evidence for elevated salinity
MOREENIA	5244814	EL2067	582498	6218718	20	0.2	lag, weathered qzte and leucogranite (?transported), qz, ferr and pallid saprolite	-	OB material, evidence for elevated salinity
MOREENIA	5244815	EL2067	587975	6210400	4	2	as for oc	heavily weathered leucogranite and well foliated mg pelitic schist, some duricrust development	major valley drainage, material quite sandy, MC sample
MOREENIA	5244816	EL2067	587650	6210650	1	0.3	weathered qzte, qz + qz grit	-	OB sample, small MC within broad, major valley drainage, well grassed
MOREENIA	5244817	EL2067	587600	6210500	6	3	as for oc	low grade quartzofeldspathic granitic gneiss with very coarse fspar, and bt defining foliation (vague) contains megacrystic granitic/pegmatitic intrusions, gneissic development variable, some pallid saprolite + duricrust development above granite	major valley drainage cutting through extensive oc
MOREENIA	5244818	EL2067	586450	6210950	6	1	abundant qz in adjacent woodland and paddocks, some sugary/glassy textured, ?very large qz vein intrusive within granite, as for oc	,	, . ,
MOREENIA	5244819	EL2067	586175	6211225	3	3	as for oc, leucogranite, qz (grey + glassy containing some fspar crystals)	quartzofeldspathic gneiss	steep valley drainage, major system, the setting and rock relationships of qz in localities 817-821 may suggest ht vein hosted Au ????
MOREENIA	5244820	EL2067	585850	6211125	3	1	as for oc	high grade gneiss (granitic to quartzofeldspathic), multiply intruded by undeformed megacrystic pegmatites and some granite	OB sample

Area	Sampno	Tenement	AMG	AMG	Stream	Bank			
			East	North			Float	Outcrop	Comments
MOREENIA	5244821	EL2067	585800	6211075	2	1.5	qz, fspar leucogranite, some with sugary/brecciated texture, gneiss		well vegetated, OB sample
MOREENIA	5244822	EL2067	588525	6211575	1.5	0.4	lag	-	poorly defined shallow valley drainage within paddock, affected by cultivation, with likely Zn contamination
MOREENIA	5244823	EL2067	588650	6212250	3	0.5	white, glassy qz, ferr duricrust, abundant float (mainly duricrust or saprolite after qzte, and qz) in adjacent fields	-	valley drainage, well vegetated
MOREENIA	5244824	EL2067	588650	6212200	1	0.3	qz grit, some qz + duricrust fragments	-	small MC within shallow drainage valley, well vegetated
MOREENIA	5244825	EL2067	589275	6212550	3	0.2	Fe stained qz + qzte, saprolite (after sandstone)	-	poorly defined valley drainage within fields, no real creek
MOREENIA	5244826	EL2067	589525	6211625	2	0.2	lag, qz, duricrust	-	very poorly defined, altered valley drainage system within fields (not really a creekl)
MOREENIA	5244827	EL2067	586775	6212525	2	2	as for oc, qz, leucogranitic, leucopegmatitic float	qz, fspar, bt, mu, ?chl granite, some becoming vaguely foliated with gneissic affinity downstream	very sandy + gritty, deep + narrow major valley drainage
MOREENIA	5244828	EL2067	587450	6213100	2.5	1	cg leucogranite and granite, qz, duricrust fragments	-	well defined and well wooded valley drainage, material quite sandy, OB sample
MOREENIA	5244829	EL2067	587625	6213075	2	1	lag, qzte, leucogranite fragments, qz, well foliated gneiss	-	well defined, well wooded valley drainage
MOREENIA	5244830	EL2067	584600	6223225	2.5	0.4	duricrust + saprolite in adjacent fields	-	poorly defined MC within very broad valley system, well wooded, MC sample
MOREENIA	5244831	EL2067	584700	6223800	2	0.1	lag + qz grit	-	not really a creek! within fields, very poorly defined and altered drainage channel
MOREENIA	5244832	EL2067	585375	6222050	0.75	0.2	lag +qz fragments	-	small MC within wider but shallow valley drainage, near cultivated fields
MOREENIA	5244833	EL2067	584950	6220925	8	0.4	qz grit, lag, duricrust after qzte on adjacent banks	•	elevated salinity, OB sample, broad and shallow drainage system
MOREENIA	5244834	EL2067	586800	6219375	6	1	ferr duricrust + calcrete	•	broad major drainage, OB sample
MOREENIA	5244835	EL2067		6219300	1.5	1.8	lag, qz grit + qz fragments, yellow clay	Se and the second of the secon	major valley drainage, well defined MC
MOREENIA	5244836	EL2067		6220000	2	0.2	qz, ferr qz breccia +grit	-	poorly defined shallow valley drainage within fields
MOREENIA	5244837	EL2067	590550	6219400	5	0.2	pisolithic lag, grit + gravel, small leucogranite fragments	+	wide poorly defined creek in thick scrub, very sandy
MOREENIA	5244838	EL2067	589550	6222475	4	0.2	•	-	poorly defined but major valley drainage, well grassed
MOREENIA	5244839	EL2067	589100	6221175	4	0.4	-	The state of the s	well grassed valley drainage close to cultivated fields
MOREENIA	5244840	EL2067	591550	6223800	3.5	0.5	minor lag	-	valley drainage above dam, well grassed near to cultivated fields
MOREENIA	5244841	EL2067	591350	6223850	3.5	0.5	minor lag	-	well grassed valley drainage

Area	Sampno	Tenement	AMG	AMG	Stream	Bank			
			East	North	Width (m)	Height (m)	Float	Outcrop	Comments
MOREENIA	5244842	EL2067	590425	6224450	5	0.4	•	•	well grassed valley drainage near cultivated fields, broad shallow system draining low hills
MOREENIA	5244843	EL2067	604525	6220950	2	0.2	abundant calcrete	-	valley drainage within wheat paddocks, well grassed
MOREENIA	5244844	EL2067	604225	6221125	30	0.2	transported calcrete only	-	elevated salinity, shallow and broad major regional drainage
MOREENIA	5244845	EL2067	605175	6220000	2	0.1	qz grit, tourmaline bearing leucogranite, qz	-	not a creek! valley drainage within fields
MOREENIA	5244846	EL2067	605275	6219350	2	0.2	calcrete + weathered qz + fspar	•	poorly defined shallow valley drainage within fields
MOREENIA	5244847	EL2067	604975	6219300	5	0.2	calcrete, ?bt, chl schist	•	broad and shallow drainage, well grassed
MOREENIA	5244848	EL2067	602775	6226250	2	0.2	•	-	very sandy, poorly defined valley drainage within fields (not really a creek!)
MOREENIA	5244849		602675	6226350	2	0.1	lag	-	not a creek! very poorly defined valley drainage in fields, very sandy
	5244850	EL2067	603050	6227200	2	0.1	qzte, calcrete, qz float in paddocks	•	very poorly defined valley drainage within fields
MOREENIA	5244851	EL2067		6197698	2	2	-	-	OB material
MOREENIA	5244852	EL2067	573869	6197684	3.5	2	-	-	well grassed, well vegetated
MOREENIA	5244853	EL2067	573014	6197913	3	2.5	lag, saprolite	well cemented mottled saprolite forms creek base, creek sides consist of in situ lag horizon, and the creek cuts through laterite development horizon	deep major drainage
MOREENIA	5244855	EL2067	573192	6198908	4	0.2	minor qz in adjacent paddock	-	broad, well grassed valley drainage
MOREENIA	5244917	EL2067	573940	6197293	3	. 2	heavily weathered leucogranite, qz, qz gravel	-	major drainage system
MOREENIA	5244918	EL2067	574115	6197324	6	1	•	•	well wooded and well vegetated (access difficult)
MOREENIA	5244919	EL2067	574152	6197477	4	0.3	qz, gravel	•	well grassed, well wooded, material quite sandy
MOREENIA	5244920	EL2067	575024	6198512	5	0.1	heavily weathered fg leucogranite, ironstone, ferr saprolite, weathered qzte, fg bt/chl schist	-	evidence of high salinity
MOREENIA	5244921	EL2067	575155	6198685	5	0.2	weathered and iron stained leucogranite, still retaining many kspar grains, with well preserved crystal form	-	well grassed
MOREENIA	5244922	EL2067	575135	6195279	15	0.3	pallid saprolite (rare), qz + minor lag within OB material	-	well vegetated drainage
MOREENIA	5244923	EL2067	574885	6195177	10	0.4	ironstone conglomerate containing large angular qz fragments; qz	-	well grassed, OB material sampled
MOREENIA	5244924	EL2067	575422	6194891	8	0.5	heavily weathered leucogranite and ferr saprolite	-	well compacted, well wooded valley drainage
MOREENIA	5244962	EL2067	571944	6216054	6	0.2		•	valley drainage, shallow and well grassed within wheat paddock
MOREENIA	5244963	EL2067		6214933	4	0.1	ironstone, mottle lag, calcarenitic ironstone conglomerate (Tertiary)	-	very broad drainage within fields, not major system
MOREENIA	5244967	EL2067	585447	6204247	5	0.2	ferr sandstone, qz, qzte, ironstone motties	•	valley system within cultivated field

Area	Sampno	Tenement	AMG	AMG	Stream	Bank			<u> </u>
			East	North	Width (m)	Height (m)	Float	Outcrop	Comments
MOREENIA	5244969	EL2067	583674	6214454	30	0.2	•	-	salt/silt flats, evidence of elevated salinity, very shallow broad drainage
MOREENIA	5244970	EL2067	583384	6214853	7	0.2	ferr saprolite and duricrust fragments (after sandstone), qz	•	valley drainage within cultivated field
MOREENIA	5244971	EL2067	581887	6215625	10	0.1	abundant saprolite after sandstone in adjacent paddocks	•	poorly defined shallow valley drainage
MOREENIA	5244972	EL2067	581506	6215305	20	0.1	abundant qz and saprolite, mottle fragments	-	evidence of high salinity, very broad, shallow system
MOREENIA	5244973	EL2067	578958	6214561	10	0.2	pisolithic lag	•	valley drainage within fields, OB sample
MOREENIA			578626	6212999	2.5	1	mudstone, heavily weathered qzte, qz	•	evidence for elevated salinity
MOREENIA	5244975	EL2067	579094	6212850	4	0.1	mottle lag	-	sample from cultivated field, reploughed material withinvery shallow valley drainage system
MOREENIA	5244976	EL2067	580197	6213102	10	0.1	minor lag float	-	well grassed, near to cultivated field
MOREENIA	5244977	EL2067	580427	6213352	5	0.1	•	-	shallow, broad valley drainage within fields
MOREENIA	5244978	EL2067	580351	6213544	30	0.1	·	•	very broad, poorly defined valley drianage/flood pla
MOREENIA	5244979	EL2067	580234	6213504	15	0.2	mottle and pisolithic lag, qz, Tertiary calcarenitic conglomerate	•	OB material, several MC within broader valley system
MOREENIA	5244980	EL2067	574289	6210625	6	0.4	Tertiary calcrete and silcrete, rare qz	-	OB sample, adjacent to cultivated fields, all contributory channels poorly defined
MOREENIA	5244981	EL2067	574018	6211947	1.8	0.3	mottle and pisolithic duricrust, minor lay, calcrete + qz	-	likely Zn contamination
MOREENIA	5244982	EL2067	573808	6210711	2	1.2	lag, qz, pisolithic and mottle lag within calcrete/calcarenite, yellow ferr clay	-	well grassed within fields, possibly affected by cultivation
MOREENIA	5244983	EL2067	573477	6210319	3	1.5	abundant lag, qz, Tertiary calcrete and Quaternary sands	-	well grassed adjacent to cultivated fields
MOREENIA	5244984	EL2067	571657	6212247	2	0.2	lag, duricrust fragments		valley drainage within cultivated fields
MOREENIA	5244985	EL2067	578159	6210745	6	0.3	abundant sand, grit and gravel, qz, ironstone after sandstone	-	OB sample, material quite sandy, well grassed draina
MOREENIA	5244986	EL2067	578145	6210443	8	4	qz, duricrust fragments, lag, Tertiary calcrete	-	major drainage within cultivated fields, material very sandy
MOREENIA	5244987	EL2067	577414	6217691	1.5	0.4	abundant lag - mostly mottles with some pisoliths		valley drainage within cultivated fields
MOREENIA	5244988	EL2067	573897	6218104	1.5	0.2	calcrete, minor lag	نىيەر ئولۇپ (دەندىسىدىدىدىدىدىدىدىدىدىدىدىدىدىدىدىدىدىد	4
MOREENIA	5244989	EL2067	572379	6219663	2	0.2	lag	-	very broad and poorly defined valley system, subject to cultivation
MOREENIA	5244990	EL2067	573219	6218710	5	0.2	-	-	broad, well grassed valley within cultivated fields
MOREENIA	5244991	EL2067	577204	6225152	3	0.2	mottled saprolite, lag	•	well grassed, shallow valley drainage
MOREENIA	5244992	EL2067	584288	6222874	5	0.2	minor lag	•	both OB and MC samples, poorly defined valley drainage, evidence for elevated salinity
MOREENIA	5244993	EL2067	583753	6219938	15	0.2	qz, lag (mostly pisoliths), saprolite fragments	•	broad valley drainage, evidence for elevated salinity
MOREENIA	5244994	EL2067	582358	6217112	1.5	0.1	mottled saprolite after sandstone, sugary textures qz, minor lag	•	poorly defined MC within shallow valley drainage, sample site within cultivated field

Area	Sampno	Tenement	AMG	AMG	Stream	Bank			
			East	North	Width (m)	Height (m)	Float	Outcrop	Comments
MOREENIA	5244995	EL2067	583443	6217281	2.5		heavily weathered holocrystalline leucogranite, lag, qz, grit	•	material quite sandy, evidence for elevated salinity
MOREENIA	5244996	EL2067	580203	6218962	2		minor lag (both mottles and pisoliths, all with cutan)	•	well grassed, near to cultivated fields
MOREENIA	5244997	EL2067	580452	6218911	10	0.2	duricrust after sandstone, ferr saprolite	-	OB material (MC altered by human activity), evidence for elevated salinity
MOREENIA	5244998	EL2067	574853	6220178	5	0.2	minor lag	-	broad, shallow valley drainage, well grassed within cultivated fields
MOREENIA	5244999	EL2067	575433	6221205	2	0.2	calcrete, in situ lag horizons	-	well defined MC, altered downstream by agricultural activity
MOREENIA	5245000	EL2067	575245	6220929	1	0.3	lag	•	OB material, well vegetated, well defined valley drainage

APPENDIX IV -80# STREAM SEDIMENT SAMPLE GEOCHEMICAL LEDGER

FI 2067 MC	DREENIA .	80# STREAM	SEDIME	NT SAMPI	F GEOCHEN	MICAL LED	GFR		i	Γ -	, , <u>, , , , , , , , , , , , , , , ,</u>	l		1						_		· · · · · ·			1		_	_	T
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AREA	SAMPNO	TENEMENT	EAST	NORTH	MATERIAL	DPO	Ag	As	Bi	Co	Cr	Cu	Fe	Mn	Mo	Ni	Р	Pb	Sb	Sn	Th	U	Zn	Au	Au Dp1	Pt	Pt Dp1	Pd	Pd Dp1
						SCHEME	1C3M	IC3E	1C3M	IC3E	IC3E	IC3E	IC3E	IC3E	IC3M	IC3E	IC3E	IC3E	IC3E	IC3E	IC3M	IC3M	IC3E	FA3M	FA3M	FA3M	FA3M	FA3M	FA3M
						UNITS	PPM	PPM	PPM	PPM	PPM	PPM	100 PPM	PPM	PPM	PPM	PPM	PPM	PPM	PPM	0.02 PPM	0.02 PPM	PPM	0.1 PPB	0.1 PPB	0.2	0.2	0.2	PPB
MOREENIA	5243501	EL2067	501536	6204474	-80#SS	81594	<0.1	<3	0.2	4	32	11	21300	240	0.7	11	200	15	<5	10	6		22		na	PPB 0.4	PPB na	PPB <0.2	
MOREENIA	5243501	EL2067	591051	6204756	-80#SS	81594	0.2	<3	0.5	4	36	13	35500	800	0.7	9	260	25	<5	10	10	2.6	23	0.8	na	0.4	na	0.4	na na
MOREENIA	5243506	EL2067		6204998	-80#SS	81594	0.2	6	1	5	80	25	31600	320	1.1	12	320	35	20	15	17	4.7	21	0.7	na	0.4	na	1.2	na
MOREENIA	5243507	EL2067	_	6204965	-80#SS	81594	0.2	<3	0.4	3	22	11	19700	300	0.3	7	100	15	<5	10	8.5	1.45	14	0.8	na	0.4	na	0.6	na
MOREENIA	5243508	EL2067		6206317	-80#SS	81594	0.3	<3	0.6	5	39	12	21700	700	1.7	9	360	40	15	15	28.5	4.4	31	0.5	na	<0.2	na	<0.2	na
MOREENIA	5243509	EL2067		6206705	-80#SS	81594	0.2	<3	1.1	3	44	8	25600	130	0.9	11	130	25	15	10	13.5	1.9	14	0.7	na	<0.2	na	0.4	na
MOREENIA	5243510	EL2067	_	6206008	-80#SS	81594	0.4	6	1.5	5	43	22	28900	820	1.2	12	1400	30	<5	10	19	8.5	48	0.5	na	0.6	na	0.4	na
MOREENIA	5243511	EL2067		6205954	-80#SS	81594	0.2	4	1.7	4	50	11	21400	280	1.1	12	440	25	5	10	17.5	3.7	15	0.6	na	<0.2	na	<0.2	na
MOREENIA	5243512	EL2067		6206947	-80#SS	81594	0.1	<3	0.7	3	36	12	26100	340	0.6	8	115	25	<5	10	9	1.85	17	1	na	0.6	na	0.6	na
MOREENIA	5243513	EL2067	590423		-80#SS	81594	0.2	6	1.4	7	54	21	30300	1600	0.9	15	340	25	5	10	16.5	5.5	43	0.8	na	0.4	na	0.4	na
MOREENIA	5243514	EL2067		6207330	-80#SS	81594	0.2	<3	0.4	3	39	25	36100	260	0.7	8	580	25	<5	10	10	1.8	27	0.4	na	0.4	na	0.8	na
MOREENIA	5243515	EL2067		6207709	-80#SS	81594	0.2	4	0.9	4	38	11	26700	580	0.6	7	175	25	<5	10	15.5	3.1	16	0.7	na	0.4	na	0.4	na
MOREENIA	5243516	EL2067		6208254	-80#SS	81594	0.2	6	0.6	7	48	19	38200	280	1	16	200	35	15	10	15	2.4	24	0.5	na	0.2	na	0.4	na
MOREENIA	5243517	EL2067		6209139	-80#SS	81594	0.1	<3	0.7	3	30	11	24500	420	0.7	8	185	25	5	10	16	3.2	16	0.6	na	0.2	na	0.4	na
MOREENIA	5243518	EL2067	_	6209000	-80#SS	81594	0.2	<3	0.4	2	27	7	18600	440	0.6	5	165	20	<5	10	12.5	1.95	16	0.7	na	<0.2	na	<0.2	na
MOREENIA	5243519	EL2067	587332	6207337	-80#SS	81594	0.4	6	1	23	43	15	39400	8800	2	15	400	35	<5	10	34.5	5	48	0.9	na	0.2	na	0.4	na
MOREENIA	5243528	EL2067		6204314	-80#SS	81594	0.3	<3	0.4	<2	18	8	15400	260	0.8	3	240	20	<5	10	15	2.3	24	0.3	na	<0.2	na	<0.2	na
MOREENIA	5243529	EL2067		6204769	-80#SS	81594	0.3	<3	0.4	<2	39	9	31800	220	1.4	7	220	40	10	10	25.5	3.8	18	0.4	na	0.2	na	0.4	na
MOREENIA	5243530	EL2067	583899	6204628	-80#SS	81594	0.5	4	0.3	2	36	10	36500	240	1.6	7	520	40	15	10	28.5	4.2	22	0.7	na	<0.2	na	0.4	na
MOREENIA	5243543	EL2067	584851	6204690	-80#SS	81594	0.3	10	0.7	3	29	6	29900	280	1	6	500	40	<5	10	53	5	52	0.4	na	<0.2	na	0.2	na
MOREENIA	5243544	EL2067	583372	6206887	-80#SS	81594	0.6	<3	0.3	<2	33	7	30400	125	2.5	7	360	45	<5	10	51	6.5	20	0.2	na	<0.2	na	<0.2	na
MOREENIA	5243545	EL2067	583388	6207116	-80#SS	81594	0.4	4	0.3	<2	16	6	21900	50	1.4	63	320	35	<5	5	35	6.5	14	0.6	na	<0.2	na	<0.2	na
MOREENIA	5243546	EL2067	583820	6207930	-80#SS	81594	0.4	4	0.3	2	21	9	28000	220	2.4	7	360	40	5	10	31	4.7	20	0.9	na	<0.2	na	<0.2	na
MOREENIA	5243547	EL2067	584127	6208212	-80#SS	81594	0.2	<3	0.2	<2	5	5	7700	75	0.7	2	200	25	<5	-5	19.5	2.5	13	0,6	na	<0.2	na	<0.2	na
MOREENIA	5243548	EL2067	583741	6208626	-80#SS	81594	0.4	<3	0.3	5	26	12	23700	460	1.6	9	540	35	<5	10	26.5	3.4	26	0.5	na	<0.2	na	<0.2	na
MOREENIA	5243549	EL2067	584899	6208883	-80#SS	81594	0.3	4	0.3	4	27	8	31500	125	1.9	9	380	35	5	10	24.5	2.9	25	0.6	na	<0.2	na	<0.2	na
MOREENIA	5243550	EL2067	584939	6207992	-80#SS	81594	0.4	4	0.3	4	28	10	24500	300	2	8	420	40	10	10	30	4.4	23	0.5	na	<0.2	na	<0.2	na
MOREENIA	5243555	EL2067	582637	6206050	-80#SS	81594	0.4	<3	0.2	<2	16	7.	14300	195	0.8	4	280	35	<5	5	24.5	2.7	25	0.3	na	<0.2	na	<0.2	na
MOREENIA	5243556	EL2067	582306	6206404	-80#SS	81594	0.3	<3	0.2	_ 3	30	6	19900	340	0.7	6	200	30	<5	5	21	2.4	25	1.5	na	0.4	na	0.2	na
MOREENIA	5243557	EL2067	582439	6206461	-80#SS	81594	0.4	4	0.4	6	33	13	33900	420	1.7	10	360	45	5	10	22.5	3.4	34	0.7	na	<0.2	na	<0.2	na
MOREENIA	5243558	EL2067	582422	6207136	-80#SS	81594	0.3	<3	0.2	<2	9	5	12000	100	0.9	2	260	35	<5	5	32	4.5	13	0.9	na	<0.2	na	<0.2	na
MOREENIA	5243559	EL2067	582919	6205925	-80#SS	81594	0.4	<3	0.2	<2	18	10	15000	170	1.1	5	420	30	<5	10	22.5	2.7	21	0.4	na	<0.2	na	<0.2	na
MOREENIA	5243560	EL2067	583124	6206068	-80#SS	81594	0.1	<3	0.1	<2	7	3	7800	75	0.7	3	105	30	<5	10	4.5	0.97	8	0.6	na	<0.2	na	<0.2	na
MOREENIA	5243561	EL2067	581566	6207361	-80#SS	81594	0.4	_ 6	0.3	5	27	8	27200	360	1.5	8	260	40	<5	10	22	2.6	25	0.5	na	<0.2	na	<0.2	na
MOREENIA	5243562	EL2067	581696	6207548	-80#SS	81594	0.4	4	0.3	4	35	10	39200	220	1.9	10	220	65	20	10	17	2.5	27	0.5	na	<0.2	na	0.4	na
MOREENIA	5243563	EL2067	581561	6208280	-80#SS	81594	0.3	4	0.1	2	26	_ 6	23700	115	0.9	6	300	25	<5	10	10	0.99	21	0.6	na	<0.2	na	<0.2	na
MOREENIA	5243564	EL2067	580991	6208143	-80#SS	81594	0.2	4	0,2	3	22	6	20900	260	1.1	5	240	25	<5	5	21.5	2.4	32	1	na	<0.2	na	<0.2	na
MOREENIA	5243565	EL2067	580335	6209161	-80#SS	81594	0.2	<3	0.2	3	27	4	18500	100	0.7	8	125	15	< 5	5	7	0.64	40	0.6	na	<0.2	na	<0.2	na
MOREENIA	5243566	EL2067	577991	6205835	-80#SS	81594	0.2	<3	0.2	<2	25	8	16800	195	1.1	7	560	15	< 5	5	7.5	0.75	19	0.6	na	<0.2	na	<0.2	na
MOREENIA	5243567	EL2067	577000	6204950	-80#SS	81594	0.3	4	<0.1	<2	10	5	12400	160	0.5	4	240	20	<5	5	34.5	3,1	16	0.5	na	<0.2	na	<0.2	na
MOREENIA	5243568	EL2067	576400	6204247	-80#SS	81594	0.4	<3	0.2	<2	18	6	15700	150	0.9	5	260	25	<5	5	35	3.3	17	0.4	na	<0.2	na	<0.2	na
MOREENIA	5243569	EL2067	576269	6203281	-80#SS	81594	1	<3	0.3	3	16	5	14700	195	0.8	_5	260	25	<5	<5	34	2.9	31	8.0	na	<0.2	na	<0.2	na
MOREENIA	5243574	EL2067	576204	6201182	-80#SS	81594	0.2	<3	0.1	<2	21	4	16400	100	0.5	5	105	20	<5	5	6	0.91	11	8.0	na	<0.2	na	<0.2	na
MOREENIA	5243578	EL2067	578452	6208587	-80#SS	81594	0.1	<3	0.1	2	21	5	12300	70	0.7	6	195	10	<5	5	3.3	0.41	9	1	na	0.6	na	<0.2	na
MOREENIA	5243579	EL2067	578226	6206661	-80#SS	81594	0.5	4	0.2	4	32	13	30600	240	1.9	9	360	25	5	10	9	1,1	15	0.9	na	0.4	na	<0.2	na
MOREENIA	5243580	EL2067	578126	6207364	-80#SS	81594	0.2	<3	<0.1	<2	6	5	7200	70	0.6	4	8.5	5	<5	<5	2.5	0.32	7	0.4	na	<0.2	na	<0.2	na
MOREENIA	5243581	EL2067	577819	6207317	-80#SS	81594	0.3	<3	0.2	3	36	13	19200	95	1.1	8	460	10	<5	5	3.4	0.53	13	0.4	na	<0.2	na	<0.2	na
MOREENIA	5243582	EL2067	577547	6206658	-80#SS	81594	0.3	<3	0.2	3	26	9	17800	125	1.5	9	260	15	<5	10	5.5	0.6	11	8.0	na	<0.2	na	<0.2	na

AREA	SAMPNO	TENEMENT	EAST	NORTH	MATERIAL	DPO	Ag	As	Bi	Со	Cr	Cu	Fe	Mn	Мо	Ni	Р	Pb	Sb	Sn	Th	U	Zn	Au	Au Dp1	Pt	Pt Dp1	Pd	Pd Dp1
						SCHEME	IC3M	IC3E	IC3M	IC3E	IC3E	IC3E	IC3E	IC3E	IC3M	IC3E	IC3E	IC3E	IC3E	IC3E	IC3M	IC3M	IC3E	FA3M	FA3M	FA3M	FA3M	FA3M	FA3M
						DL	0.1	3	0.1	2	2	2	100	5	0.1	2	5	5	5	5	0.02	0.02	2	0.1	0.1	0.2	0.2	0.2	0.2
						UNITS	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PPB	PPB	PPB	PPB	PPB	PPB
MOREENIA	5243583	EL2067	578253	6207802	-80#SS	81594	0.5	4	0,1	2	27	8	16800	150	1	7	380	15	<5	5	3.7	0.46	12	0.1	<u>na</u>	<0.2	na	<0.2	na
MOREENIA	5243584	EL2067	579672	6208762	-80#SS	81594	0.7	<3	0.1	3	18	7	23400	145	0.9	5_	110	25	<5	5	6	0.57	19	<0.1	па	0.2	na	0.2	na
MOREENIA	5243585	EL2067	580761	6204571	-80#SS	81594	0.6	<3	0.2	<2	8	5	12300	90	0.8	3	135	35	<5	5	6	1.05	20	0.2	na	<0.2	па	<0.2	na
MOREENIA	5243586	EL2067		6204425	-80#SS	81594	1	4 .	0.2	5	23	9	30600	400	1.1	8	220	25	<5	10	6	1.05	51	0.5	na	0.4	na	<0.2	na
MOREENIA	5243587	EL2067		6204875	-80#SS	81594	0.6	<3	0,2	<2	12	6	11000	120	0.8	4	200	30	<5	10	8	1.4	37	0.3	na	<0.2	na	<0.2	na
MOREENIA	5243588	EL2067		6205290	-80#SS	81594	0.6	<3	<0,1	<2	13	7	16100	130	0.8	4	300	25	<5	5	5.5	0.62	22	0.2	na	<0.2	, na	<0.2	na
MOREENIA		EL2067		6205216	-80#SS	81594	0.9	<3	<0.1	2	12	6	13700	155	0.9	4	260	25	<5	5	6	0.81	30	0.4	na	<0.2	па	<0.2	na
MOREENIA		EL2067	-	6206327	-80#SS	81594	0.2	<3	<0.1	<2	5	<2	5600	80	0.3	<2	70	20	<5	<5	12.5	1.05	13	0.2	na	<0.2	na	<0.2	na
MOREENIA		EL2067		6206499	-80#SS	81594	.0.7	.4	0.3	3	37	7	18200	60	1.2	10	260	1,5	<5	10	4.2	0.32	16	1.1	na	<0.2	na	<0.2	na
MOREENIA		EL2067		6206650	-80#SS	81594	0.2	4	0.2	5	33	9	26500	620	0.5	7	240	25	. 5	5	32	3	57	0.3	na	<0.2	na	<0.2	na
MOREENIA		EL2067		6207171	-80#SS	81594	1.3	4	0.1	3	34	7	22300	240	1.2	9	300	2.0	<5	5	5.5	0.5	18	0.8	na	<0.2	na	<0.2	na
MOREENIA	5243594	EL2067		6207359	-80#SS	81594	1.1	<3	0.1	3	14_	5	18000	240	1	5	130	20	<5	5,	4	0.36	20	0.9	ņa	<0.2	na	<0.2	na
MOREENIA	5243595	EL2067		6205381	-80#SS -80#SS	81594	1.5	4	0.2	6 7	40 23	15	19200 26700	340	0.8	8	540	30	<5 5	5	4.1	0.6	29	0.3	na	<0.2	na	<0.2	na
MOREENIA	5243596 5243597	EL2067 EL2067		6204924 6204667	-80#SS	81594 81594	0.2	6	0.2	14	46	10	44200	720	1.3	13	580	20	5	10	5.5 32.5	0.87 3.6	45 71	1.2	na	<0.2 <0.2	. na	<0.2	na
MOREENIA		EL2067 EL2067		6208315	-80#SS	81594	0.2	4	0.2	5	31	6	24000	80	0.8	11	105	15	5	10	11	0.69	14	1.2	na na	0.2	na	<0.2	na
MOREENIA		EL2067		6208259	-80#SS	81594	0.2	<3	0.3	3	17	5	17300	1.75	0.7	6	95	20	<5	5	13	1.1	13	0.3	na	<0.2	na na	0.2 <0.2	na na
MOREENIA		EL2067		6209030	-80#SS	81594	0.3	8	0.4	8	64	6	39100	100	1.8	21	140	20	15	10	14.5	0.97	17	0.5	na	<0.2	na	<0.2	na
MOREENIA		EL2067		6209601	-80#SS	81594	0.2	<3	0.2	3	30	5	17700	100	0.7	8	75	15	<5	10	8.5	0.73	9	0.5	na	<0.2	na	<0.2	na
MOREENIA		EL2067		6208614	-80#SS	81594	0.1	<3	0.1	3	26	5	16900	105	0.8	8	90	20	5	10	17.5	1.6	13	0.5	na	<0.2	na	<0.2	na
MOREENIA		EL2067		6207282	-80#SS	81594	<0.1	<3	<0.1	<2	16	5	8800	50	0.4	5	160	10	<5	5	5.5	0.55	9	0.3	na	<0.2	na	<0.2	па
MOREENIA		EL2067		6207011	-80#SS	81594	<0.1	<3	0.1	<2	18	3	11600	40	0.7	6	55	10	<5	5	16	1.05	7	0.3	na	<0.2	na	<0.2	na
MOREENIA	5243616	EL2067		6206655	-80#SS	81594	0.2	<3	0.2	6	45	6	32000	85	1.6	14	185	35	15	10	24.5	2	18	0.9	па	0.2	na	0.4	па
MOREENIA		EL2067		6208276	-80#SS	81594	<0.1	6	0.1	4	25	4	16700	55	0.7	9	65	10	<5	10	9	0.64	9	0.8	na	<0.2	па	<0.2	na
MOREENIA	_	EL2067		6206839	-80#SS	81594	0.1	<3	0.1	3	25	5	19300	85	0.7	9	130	15	<5	10	13	1.1	11	0.4	na	<0.2	na	<0.2	na
MOREENIA	5243636	EL2067	574297	6205459	-80#SS	81594	0.3	4	0.2	2	26	7	17100	80	1.6	9	140	25	10	10	23	2.8	13	0.7	na	<0.2	na	<0.2	na
MOREENIA	5243637	EL2067	575558	6205457	-80#SS	81594	0.2	4	0.2	3	38	11	28500	135	1.6	10	240	40	10	. 10	41	4.4	23	0.6	па	0.4	na	0.6	па
MOREENIA	5243638	EL2067	575973	6206303	-80#SS	81594	0.3	4	0.2	3	37	12	27600	185	1.8	9	420	45	15	10	40	5	20	<0.1	na	<0.2	па	<0.2	na
MOREENIA	5243639	EL2067	576260	6207570	-80#SS	81594	0.1	4	0.2	4	26	6	21300	80	0.9	11	220	15	5	10	11.5	0.73	11_	1.2	na	<0.2	na	<0.2	na
MOREENIA	5243640	EL2067	576149	6207541	-80#SS	81594	0.2	6	0.2	6	41	6	31300	60	0.9	17	115	15	10	10	15.5	0.77	13	0.7	na	<0.2	na	<0.2	na
MOREENIA	5243641	EL2067	574529	6204497	-80#SS	81594	0.2	4	0.3	2	35	8	23500	90	1.7	9	115	20	5	10	15	1.6	10	0.8	na	<0.2	na	<0.2	па
MOREENIA	5243642	EL2067	574355	6204481	-80#SS	81594	0.2	6	0.2	3	14	7	15600	155	0.7	5	300	30	5	10	105	8	15	0.3	na	<0.2	na	<0.2	na
MOREENIA	5243643	EL2067	575494	6202723	-80#SS	81594	0.3	6	0.2	5_	27	5	24300	135	1.2	7	200	25	<5	5	5.5	4.1	40	0.6	na	0.2	na	0.2	na
MOREENIA	5243644	EL2067_	575434	6202366	-80#SS	81594	0.2	<3	0.2	4	29	10	24000	300	. 1	11	400	25	5	10	20.5	2.3	22	0.9	na	<0.2	na	<0.2	na
MOREENIA	5243645	EL2067	575048	6202090	-80#SS	81594	0.2	<3	0.2	. 3	53	8	20000	480	0.5	7	240	25	5	10	48	4.8	20	0.2	na	<0.2	na	<0.2	na
MOREENIA	5243658	EL2067	575221	6199640	-80#SS	81594	0.3	. 8	0.2	3	21	4.	17300	95	1.3	-5	240	25	<5	<5	53	7.5	19	0.2	na	<0.2	па	<0.2	na
MOREENIA		EL2067		6200456	-80#SS	81594	<0.1	<3	<0.1	<2	12	<2	11500	75	0.6	4	120	15_	<5	<5_	13.5	1.5	9	<0.1	na	<0.2	na	<0.2	na
MOREENIA		EL2067		6200686	-80#SS	81594	<0.1	<3	<0.1	<2	10	4	9400	30	0.4	-8	35	5	<5	5	4.9	0.4	61	0.6	na	0.2	na	<0.2	na
MOREENIA	5243661	EL2067		6201084	-80#SS	81594	0.2	4	0.3	6	40	10	30300	195	1.4	15	500	20	5	10	11.5	1.45	43	0.3	na	<0.2	na	<0.2	na
MOREENIA	5243662	EL2067	573253	6200852	-80#SS	81594	0.3	4	0.2	4	28	14	23400	600	1.1	9	260	35	10	10	28	3.8	51	0.4	_na	<0.2	na	<0.2	na
MOREENIA	5243663	EL2067		6200589	-80#SS	81594	0.2	8	0.3	6	60	10	37900	105	1.9	20	500	30	15	10	16	1.6	18	1.2	na	<0.2	na	0.2	na
MOREENIA	5243664	EL2067	574572		-80#SS	81594	0.1	<3	0.2	6	45	25	39600	280	8.0	13	135	30	<5	10	25.5	2.4	50	1.2	na	0.2	na	0.4	na
MOREENIA		EL2067		6199910	-80#SS	81594	0.4	4	0.3	11	71	30	52400	920	2	21	2800	45	20	10	23.5	6.5	48	. 1	na	0.4	na	0.8	na
MOREENIA	5243666	EL2067		6195969	-80#SS	81594	0.5	<3	0.2	10	54	40	52300	1400	1.3	16	340	35	15	10	38	4.1	48	<0.1	na	0.8	na	0.6	ńa
MOREENIA	5243667	EL2067		6195970	-80#SS	81594	0.7	<3	0.1	4	27	12	23300	115	2.3	6	220	40	<5	. 5	36.5	3.4	25	0.6	na	0.2	na	0.2	па
MOREENIA		EL2067		6196309	-80#SS	81594	0.2	<3	0.1	5	29	8	42800	300	1.3	6	400	25	<5	5	35	3.4	42	1.4	na	0.2	na	0.4	па
MOREENIA	5243669	EL2067	572986		-80#SS	81594	0.2	<3	0.1	6	31	16	29800	620	0.6	10_	260	20	10	10	22.5	2.1	32	0.5	na	0.4	na	0.2	na
MOREENIA	5243708	EL2067	592714		-80#SS	81594	0,1	6	0.3	6	32	10	18300	110	0.6	13	340	35	<5	5	22.5	2.8	16	0.4	na	<0.2	na	<0.2	na
MOREENIA		EL2067	592588		-80#SS	81594	0,1	<3	0.5	3	25	9	21600	360	0.2	6	165	20	5	5	7	1.6	16	0.1	na	0.4	na	0.4	na
MOREENIA	5244082	EL2048	586632	6209741	-80#SS	81598	0.1	<3	0.3	2	16	9	15900	240	2.1	<2	300	50	5 .	5	83	6	20	<0.1	na	<0.2	na	<0.2	na

AREA	SAMPNO	TENEMENT	EAST NORTH	MATERIAL	DPO	Ag	As	Bi	Co	Cr	Cu	Fe	Mn	Mo	Ni	P	Pb	Sb	Sn	Th	U	Zn	Au	Au Dp1	Pt	Pt Dp1	Pd	Pd Dp1
					SCHEME	IC3M	IC3E	IC3M	IC3E	IC3E	IC3E	IC3E	IC3E	IC3M	IC3E	IC3E	IC3E	IC3E	IC3E	IC3M	IC3M	IC3E	FA3M	FA3M	FA3M	FA3M	FA3M	FA3M
					DL	0.1	3	0.1	2	2	2	100	5	0.1	2	5	5	5	5	0.02	0.02	2	0.1	0.1	0.2	0.2	0.2	0.2
					UNITS	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PPB	PPB	PPB	PPB	PPB	PPB						
MOREENIA	5244091	EL2067	591377 6214573	-80#SS	81598	0.2	<3	0.2	3	20	6	14600	120	0.7	9	320	10	<5	<5	10	1.3	15	0.3	<0.1	<0.2	0.2	<0.2	0.2
MOREENIA	5244092	EL2067	591320 6213779	-80#SS	81598	<0.1	<3	0.2	3	29	9	16600	65	1	9	280	10	<5	<5	7.5	0.76	1.7	0.1	па	<0.2	па	<0.2	па
MOREENIA	5244093	EL2067	590462 6215143	-80#SS	81598	<0.1	<3	0.1	ε	19	5	15400	95	0.9	2	300	25	<5	<5	29	2.8	24	0.1	па	<0.2	na	<0.2	na
MOREENIA	5244094	EL2067	590055 6214503	-80#SS	81598	<0.1	<3	0.3	<2	14	5	10300	110	1	. 5	200	20	<5	<5	21	2.2	15	<0.1	na	<0.2	na	<0.2	na
MOREENIA	5244095	EL2067	590021 6214828	-80#SS	81598	<0.1	<3	0.1	<2	12	5	8800	75	0.9	4	300	10	<5	<5	11	1.35	13	0,1	na	<0.2	na	<0.2	na
MOREENIA	5244096	EL2067	586204 6214838	-80#SS	81598	<0.1	<3	0.2	3	36	8	23800	165	1.5	7	280	20	<5	<5	28	2.2	19	0.1	na	<0.2	na	<0.2	na
MOREENIA	5244097	EL2067	587251 6215199	-80#SS	81598	<0.1	<3	0.2	5	41	12	24900	135	1.7	9	340	25	< 5	<5	32.5	2.4	25	<0.1	па	<0.2	na	0.2	na
MOREENIA	5244098	EL2067	587613 6215302	-80#SS	81598	<0.1	<3	0.1	3	17	8	12200	110	0.7	4	360	20	<5	<5	35	2.7	15	<0.1	па	<0.2	па	<0.2	na
MOREENIA	5244099	EL2067	587599 6216137	-80#SS	81598	<0.1	6	0.3	4	34	5	22600	85	1.5	10	220	20	<5	<5	46	. 3.1	20	0.1	па	<0.2	na	0.2	na
MOREENIA	5244100	EL2067	591334 6217894	-80#SS	81598	<0.1	<3	0.8	4	29	9	18500	180	0.7	9	500	25	<5	<5	13.5	2.2	30	<0.1	па	<0.2	na	<0.2	na
MOREENIA	5244101	EL2067	591276 6216485	-80#SS	81598	<0.1	<3	0.3	4	22	7	18400	165	1.2	. 9	360	25	<5	<5	28	3.1	26	0.1	na	<0.2	na	<0.2	na
MOREENIA	5244102	EL2067	588559 6215636	-80#SS	81598	<0.1	4	0.2	3	21	7	19800	260	1.3	6	240	25	<5	<5	50	4.3	22	<0.1	па	<0.2	na	<0.2	па
MOREENIA	5244103	EL2067	585450 6214328	-80#SS	81598	<0.1	<3	0.2	4	36	10	24900	105	2.2	7	500	25	<5	. 5	52	4.3	19	<0.1	па	<0.2	na	<0.2	па
MOREENIA	5244104	EL2067	584291 6216539	-80#SS	81598	<0.1	4	0.2	. 4	18	5	20600	150	1.1	4	360	30	<5	<5	86	5.5	58	<0.1	па	<0.2	na	<0.2	па
MOREENIA	5244105	EL2067	586119 6217767	-80#SS	81598	<0.1	<3	0.2	5	31	7 .	19100	115	0.9	8	200	25	<5	<5	42.5	2.7	20	<0.1	па	<0.2	na	<0.2	na
MOREENIA	5244106	EL2067	586729 6217994	-80#SS	81598	<0.1	6	0.3	3	19	6	12100	75	0.8	6	380	30	<5	<5	160	9	13	<0.1	<0.1	<0.2	<0.2	<0.2	<0.2
MOREENIA	5244107	EL2067	586082 6216963	-80#SS	81598	<0.1	<3	0.2	4	34	6	21200	85	1.1	9	260	15	<5	<5	25	1.85	17	<0.1	na	<0.2	na	<0.2	na
MOREENIA	5244108	EL2067	584774 6218089	-80#SS	81598	<0.1	6	0.1	<2	11	5	9500	100	0.7	5	300	15	<5	<5	23.5	1.95	14	<0.1	па	<0.2	na	<0.2	па
MOREENIA	5244110	EL2067	587055 6213788	-80#SS	81598	<0.1	<3	0.1	<2	16	5	13700	220	0.6	4	280	1,5	<5	<5	39.5	4.2	16	<0.1	na	<0.2	na	<0.2	па
MOREENIA	5244111	EL2067	587056 6213893	-80#SS	81598	0.4	<3	0.1	3	14	5	14900	120	0.6	. 3	155	1.0	<5	<5	10.5	1.1	13	< 0.1	na	<0.2	na	<0.2	na
MOREENIA	5244112	EL2067	586621 6214696	-80#SS	81598	<0.1	<3	0.2	<2	26	6	17400	95	0.9	4	195	1.5	< 5	<5	10	1.1	15	<0.1	па	<0.2	na	<0.2	na
MOREENIA	5244113	EL2067	586881 6214711	-80#SS	81598	<0.1	<3	0.2	3	34	9	16800	140	0.8	8	260	20	<5	<5	12.5	2.1	18	_ 1	na	<0.2	па	<0.2	na
MOREENIA	5244114	EL2067	584237 6217939	-80#SS	81598	<0.1	<3	0.1	2	16	5	12400	90	0.8	5	220	15	<5	<5	33.5	2	18	<0.1	па	<0.2	na	<0.2	na
MOREENIA	5244115	EL2067	585225 6217113	-80#SS	81598	<0.1	<3	0.2	3	_26	6	17200	240	1.1	. 8	220	15	<5	<5	33	2.1	16	<0.1	na	<0.2	na	<0.2	na
MOREENIA	5244116	EL2067	581625 6210100	-80#SS	54322	0.3	8	0.4_	9	. 12	11	10800	120	0.4	180	280	20	<5	<5	135	5.5	30	1.1	, na	0.2	na .	<0.2	na
MOREENIA	5244117	EL2067	581800 6210050	-80#SS	54322	0.2	<3	0.2	5	16	8	18400	180	0.9	44	280	30	<5	5	56	5.5	24	0.9	na	0.2	na	<0.2	na
MOREENIA	5244118	EL2067	580250 6209825	-80#SS	54322	0.2	6	0.1	5	. 22	6	21800	220	1.1	13	260	30	<5	5	76	6	24	0.4	na	0.2	na	<0.2	na
MOREENIA	5244119	EL2067	579900 6210500	-80#SS	54322	0.1	<3	0.2	4	28	6	17500	60	0.9	5	220	15	< 5	<5	17.5	. 1	19	0.3	na	0.2	na	<0.2	na
MOREENIA	5244120	EL2067	580950 6211550	-80#SS	54322	0.2	8	0.2	5	32	6	25900	70	1.3	3	90	20	<5	<5	26.5	1.25	17	0.2	na	<0.2	na	<0.2	na
MOREENIA	5244121	EL2067	580500 6211125	-80#SS	54322	0.1	<3	0.1	3	25	.5	15800	60	1.1	6	200	5	<5	<5	15	0.96	12	0.5	na	<0.2	na	<0.2	na
MOREENIA	5244122	EL2067	578450 6217625	-80#SS	54322	0.1	<3	0.1	<2	13	5	9600	85	0.7	<2	240	10	<5	<5	47.5	2.2	9	0.2	na	<0.2	na	<0.2	na
MOREENIA	5244123	EL2067	578525 6216750	-80#SS	54322	0.2	4	0.1	3	21	7	15500	120	0.9	_ 5	300	10	<5_	<5	36.5	1.7	13	<0.1	na	<0.2	na	<0.2	na
MOREENIA	5244124	EL2067	579250 6216650	-80#SS	54322	0.9	8	3	5	21	20	13700	180	2.6	9	220	40	<5	<5	54	2.2	32	<0.1	<0.1	<0.2	<0.2	<0.2	<0.2
MOREENIA	5244125	EL2067	579175 6216100	-80#SS	54322	0.1	<3	0.2	<2	8	<2	6100	30	0.4	<2	55	10	<5	< 5	13.5	0.56	6	<0.1	na	<0.2	па	<0.2	na
MOREENIA	5244126	EL2067	580025 6217625	-80#SS	54322	0.2	<3	0.2	<2	23	16	20600	115	1.4	<2	400	15	<5	<5	40.5	2	16	0.2	na	<0.2	na	<0.2	na
MOREENIA	5244127	EL2067	580225 6218150	-80#SS	54322	<0.1	4	0.1	3	18	13	14500	115	0.8	8	360	15	<5	5	39.5	2.1	17	<0.1	na	<0.2	па	<0.2	na
MOREENIA	5244128	EL2067	578400 6221875	-80#SS	54322	<0.1	<3	0.2	3	24	6	15200	60	0.9	4	200	10	< 5	<5	.10	1.05	10	0.1	na	<0.2	па	<0.2	na
MOREENIA	5244129	EL2067	579825 6221200	-80#SS	54322	0.2	6	0.1	2	19	6	11700	60	0.8	5	300	5	<5	<5	5.5	0.6	13	0.1	na	<0.2	na	<0.2	na
MOREENIA	5244130	EL2067	581300 6221425		54322	0.2	<3	0.1	<2	14	5	9900	65	0.5	3	260	5	<5	<5	5	0.59	9	<0.1	na	<0.2	na	<0.2	na
MOREENIA	5244131	EL2067	570825 6211775	-80#SS	54322	0.1	4	0.4	5	25	13	18300	460	0.9	6	300	20	<5	<5	12.5	1.65	12	<0.1	0.1	<0.2	<0.2	<0.2	<0.2
MOREENIA	5244132	EL2067_	571050 6210950	-80#SS	54322	0.1	<3	0.3	. 3	31	11	19100	190	0.7	. 6	440	15	<5	<5	11.5	1.75	17	<0.1	na	<0.2	na	<0.2	na
MOREENIA	5244133	EL2067	572900 6212650	-80#SS	54322	<0.1	<3	0.2	<2	19	4	11900	55	0.5	<2	135	5	<5	<5	5	0.72	5	<0.1	па	<0.2	na	<0.2	na
MOREENIA	5244134	EL2067	580350 6225900		54322	<0.1	6	0.2	3	24	5	15400	50	0.6	2	200	10	<5	_ 5	7	0.64	10	1.3	0.9	<0.2	<0.2	<0.2	<0.2
MOREENIA	5244135	EL2067	581650 6226300	-80#SS	54322	0.1	<3	<0.1	<2	10	6	7100	45	0.4	<2	240	<5	<5	<5	2.6	0.36	11	<0.1	na	<0.2	na	<0.2	na
MOREENIA	5244136	EL2067	577400 6222150	-80#SS	54322	0.2	<3	0.3	<2	17	_ 5	13100	60	0.5	3	100	10	<5	<5	8.5	0.83	4	<0.1	na	<0.2	na	<0.2	na
MOREENIA	5244137	EL2067	576650 6223000		54322	<0.1	<3	0.3	<2	20	5	14500	65	0.5	3	195	10	<5	<5	8.5	0.55	8	<0.1	na	<0.2	na	<0.2	па
MOREENIA	5244138	EL2067	576850 6223400		54322	<0.1	<3	0.2	6	18	7	11900	65	0.5	10	180	15	<5	<5	5.5	2.1	13	<0.1	na	<0.2	na	<0.2	na
MOREENIA	5244139	EL2067	576300 6222700	-80#SS	54322	0.4	4	0.4	9	37	14	22800	140	1.1	26	125	25	<5	<5	9.5	5	26	<0.1	na	<0.2	na	<0.2	na
MOREENIA	5244140	EL2067	574050 6221600		54322	0.5	8	1.8	15	50	28	30000	220	2.5	41	320	50	<5	5	18.5	8.5	54	<0.1	na	<0.2	na	<0.2	na
MOREENIA	5244141	EL2067	574550 6222850	-80#SS	54322	0.2	4	0.3	<2_	20	7	12500	75	0.9	5	260	15	<5	<5	11	1.3	18	<0.1	па	<0.2	na	<0.2	na
	_																											

Column C	AREA	SAMPNO	TENEMENT	EAST	NORTH	MATERIAL	DPO	Ag	As	Bi	Co	Cr	Cu	Fe	Mn	Мо	Ni	Р	Pb	Sb	Sn	Ťh	U	Zn	Au	Au Dp1	Pt	Pt Dp1	Pd	Pd Dp1
Composition 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00							SCHEME	IC3M	IC3E	IC3M	IC3E	IC3E	IC3E	IC3E	IC3E	IC3M	IC3E	IC3E	IC3E	IC3E	IC3E	IC3M	IC3M	IC3E	FA3M	FA3M	FA3M	FA3M	FA3M	FA3M
More No. Section Sec							DL	0.1	3	0.1	2	2	2	100	5	0.1	2	5	5	5	5	0.02	0.02	2	0.1	0.1	0.2	0.2	0.2	0.2
MORENN 224414							UNITS	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PPB	PP8	PPB	PPB_	PPB	PPB
	MOREENIA	5244142	EL2067	571150	6223475	-80#SS	54322	<0.1	<3	<0.1	<2	5	2	4600	30	0.2	<2	45	5_	<5	<5	4.6	0.39	5	<0.1	<0.1	<0.2	<0.2	<0.2	<0.2
	MOREENIA	5244143	EL2067	570900	6221450	-80#SS	54322	0.3	4	0.2	4	25	4	14600	50	0.8	6	60	10	<5	<5	6.5	0.6	5	<0.1	na	<0.2	na	<0.2	na
	MOREENIA	5244144	EL2067	570900	6220500	-80#SS	54322	0.2	<3	0.1	3	25	5	14900	40	0.7	6	100	15	<5	<5	. 7.	0.53	8	0.2	na	<0.2	na	<0.2	na
MOREMAN 2444147 ELBOOT 589700 0208900 040885 044825 0.1 4 0.1 2 9 6 8700 0.2 0.0 4 200 0.0 5 55 20 20 1 0.1 100 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.	MOREENIA	5244145	EL2067	591600	6212000	-80#SS	54322	<0.1	4	0.2	<2	23	. 7	15600	200	0.5	5	165	15	<5	<5	8.5_	1.1	12	<0.1	na	<0.2	na	<0.2	na
MOREMAN SCALATION CLUSTON SERVICE SE	MOREENIA	5244146	EL2067	590600	6211250	-80#SS	54322	0.2	4	0.2	<2	10	6 .	7400	220	0.7	<2	340	30	<5	<5	54	4.9	12	1.4	na	<0.2	na	<0.2	na
MOREPAN S244449 ELECOT S8500 82000 60958 54522 0.1 6.0 2.2 21 11 6.0 1.00 1.00 1.00 2.0 2.0 2.5 2.5 5.5 4.15 3.8 2.4 0.1 6.0 6.0 2.0 6.0 6.0 6.0 6.0 6.0 6.0 6.0 6.0 6.0 6.0 6.0 6.0 6.0 6.0 6.0 6.0 6.0 6.0 6.0 6.0 6.0 6.0 6.0 6.0 6.0 6.0 6.0 6.0 6.0 6.0 6.0 6.0 6.0 6.0 6.0 6.0 6.0 6.0 6.0 6.0 6.0 6.0 6.0 6.0 6.0 6.0 6.0 6.0 6.0 6.0 6.0 6.0 6.0 6.0 6.0 6.0 6.0 6.0 6.0 6.0 6.0 6.0 6.0 6.0 6.0 6.0 6.0 6.0 6.0 6.0 6.0 6.0 6.0 6.0 6.0 6.0 6.0 6.0 6.0 6.0 6.0 6.0 6.0 6.0 6.0 6.0 6.0 6.0 6.0 6.0 6.0 6.0 6.0 6.0 6.0 6.0 6.0 6.0 6.0 6.0 6.0 6.0 6.0 6.0 6.0 6.0 6.0 6.0 6.0 6.0 6.0 6.0 6.0 6.0 6.0 6.0 6.0 6.0 6.0 6.0 6.0 6.0 6.0 6.0 6.0 6.0 6.0 6.0 6.0 6.0 6.0 6.0 6.0 6.0 6.0 6.0 6.0 6.0 6.0 6.0 6.0 6.0 6.0 6.0 6.0 6.0 6.0 6.0 6.0 6.0 6.0 6.0 6.0 6.0 6.0 6.0 6.0 6.0 6.0 6.0 6.0 6.0 6.0 6.0 6.0 6.0 6.0 6.0 6.0 6.0 6.0 6.0 6.0 6.0 6.0 6.0 6.0 6.0 6.0 6.0 6.0 6.0 6.0 6.0 6.0 6.0 6.0 6.0 6.0 6.0 6.0 6.0 6.0 6.0 6.0 6.0 6.0 6.0 6.0 6.0 6.0 6.0 6.0 6.0 6.0 6.0 6.0 6.0 6.0 6.0 6.0 6.0 6.0 6.0 6.0 6.0 6.0 6.0 6.0 6.0 6.0 6.0 6.0 6.0 6.0 6.0 6.0 6.0 6.0 6.0 6.0 6.0 6.0 6.0 6.0 6.0 6.0 6.0 6.0 6.0 6.0 6.0 6.0 6.0 6.0 6.0 6.0 6.0 6.0 6.0 6.0 6.0 6.0 6.0 6.0 6.0 6.0 6.0 6.0 6.0 6.0 6.0 6.0 6.0 6.0 6.0 6.0 6.0 6.0 6.0 6.0 6.0 6.0 6.0 6.0 6.0 6.0 6.0 6.0 6.0 6.0 6.0 6.0 6.0 6.0 6.0 6.0 6.0 6.0 6.0 6.0 6.0 6.0 6.0 6.0 6.0 6.0 6.0 6.0 6.0 6.0 6.0 6.0 6.0 6.0 6.0 6.0 6.0 6.0 6	MOREENIA	5244147	EL2067	589750	6218900	-80#SS	54322	0.1	4	0.2		13	5	8500	125	0.9	4	260	20	<5	<5	32	2.9	11	<0.1	na	<0.2	na	<0.2	na
More Name 1964 1965 1966 1966 1966 1966 1966 1966 1966 1966 1966 1966 1966 1966 1966 1966 1966 1966 1966 1966 1966 1966 1966 1966 1966 1966 1966 1966 1966 1966 1966 1966 1966 1966 1966 1966 1966 1966 1966 1966 1966 1966 1966 1966 1966 1966 1966 1966 1966 1966 1966 1966 1966 1966 1966 1966 1966 1966 1966 1966 1966 1966 1966 1966 1966 1966 1966 1966 1966 1966 1966 1966 1966 1966 1966 1966 1966 1966 1966 1966 1966 1966 1966 1966 1966 1966 1966 1966 1966 1966 1966 1966 1966 1966 1966 1966 1966 1966 1966 1966 1966 1966 1966 1966 1966 1966 1966 1966 1966 1966 1966 1966 1966 1966 1966 1966 1966 1966 1966 1966 1966 1966 1966 1966 1966 1966 1966 1966 1966 1966 1966 1966 1966 1966 1966 1966 1966 1966 1966 1966 1966 1966 1966 1966 1966 1966 1966 1966 1966 1966 1966 1966 1966 1966 1966 1966 1966 1966 1966 1966 1966 1966 1966 1966 1966 1966 1966 1966 1966 1966 1966 1966 1966 1966 1966 1966 1966 1966 1966 1966 1966 1966 1966 1966 1966 1966 1966 1966 1966 1966 1966 1966 1966 1966 1966 1966 1966 1966 1966 1966 1966 1966 1966 1966 1966 1966 1966 1966 1966 1966 1966 1966 1966 1966 1966 1966 1966 1966 1966 1966 1966 1966 1966 1966 1966 1966 1966 1966 1966 1966 1966 1966 1966 1966 1966 1966 1966 1966 1966 1966 1966 1966 1966 1966 1966 1966 1966 1966 1966 1966 1966 1966 1966 1966 1966 1966 1966 1966 1966 1966 1966 1966 1966 1966 1966 1966 1966 1966 1966 1966 1966 1966 1966 1966 1966 1966 1966 1966 1966 1966 1966 1966 1966 1966 1966 1966 1966 1966 1966 1966 19	MOREENIA	5244148	EL2067			-80#SS	54322	<0.1	4	<0.1	.2	. 9	6	7800	85	0.7	<2	300	20	<5_	<5	28	2.4	27	<0.1	na .	<0.2	na	<0.2	na
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MOMERNA S244159 EL2007 888400 621785 621855 6322 61, 4 61, 5 3 10 28400 100 3 62 100 63 65 65 65 65 65 65 65	MOREENIA	5244150	EL2067								-		-8			0.9										na	<0.2	na	<0.2	na
NOMERNA 5244167 ELGORY 588200 8277850 AGMES 54922 Col. 4 Col. 3 17 4 1100 70 Col.	MOREENIA	5244151	EL2067	589750	6220700	-80#SS		0.1	<3	0.2	4	14	8	14900	110	1		320	30	<5	<5	56		13	<0.1	na	<0.2	na	<0.2	na
MOREBMA 5244198	MOREENIA	5244152	EL2067	588400	6220550		54322	0.2	10	0.3	6	36	10	29400	100	3		140	45	10	10	51		14	<0.1	na	<0.2	na	<0.2	na
MOMERNA 5244179 LLDOR 58050		5244167	EL2067		_								4		-		_	_								na		na		na _
MOMERNA 224179											_				 								_	 		na	+			
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MOREDNA 5244181 EL2067 602925 6216100 -8068S 54322 0.5 43 0.5 -22 17 8 18400 30 0.5 -27 2600 20 -55 5 38.5 5 14 -6.1 -6.1 -6.2 -6.2 -6.2 -6.2 -6.2 -6.2 -6.2 -6.2 -6.2 -6.2 -6.2 -6.2 -6.2 -6.2 -6.2 -6.2 -6.2 -6.2 -6.2 -6.2 -6.2 -6.2 -6.2 -6.2 -6.2 -6.2 -6.2 -6.2 -6.2 -6.2 -6.2 -6.2 -6.2 -6.2 -6.2 -6.2 -6.2 -6.2 -6.2 -6.2 -6.2 -6.2 -6.2 -6.2 -6.2 -6.2 -6.2 -6.2 -6.2 -6.2 -6.2 -6.2 -6.2 -6.2 -6.2 -6.2 -6.2 -6.2 -6.2 -6.2 -6.2 -6.2 -6.2 -6.2 -6.2 -6.2 -6.2 -6.2 -6.2 -6.2 -6.2 -6.2 -6.2 -6.2 -6.2 -6.2 -6.2 -6.2 -6.2 -6.2 -6.2 -6.2 -6.2 -6.2 -6.2 -6.2 -6.2 -6.2 -6.2 -6.2 -6.2 -6.2 -6.2 -6.2 -6.2 -6.2 -6.2 -6.2 -6.2 -6.2 -6.2 -6.2 -6.2 -6.2 -6.2 -6.2 -6.2 -6.2 -6.2 -6.2 -6.2 -6.2 -6.2 -6.2 -6.2 -6.2 -6.2 -6.2 -6.2 -6.2 -6.2 -6.2 -6.2 -6.2 -6.2 -6.2 -6.2 -6.2 -6.2 -6.2 -6.2 -6.2 -6.2 -6.2 -6.2 -6.2 -6.2 -6.2 -6.2 -6.2 -6.2 -6.2 -6.2 -6.2 -6.2 -6.2 -6.2 -6.2 -6.2 -6.2 -6.2 -6.2 -6.2 -6.2 -6.2 -6.2 -6.2 -6.2 -6.2 -6.2 -6.2 -6.2 -6.2 -6.2 -6.2 -6.2 -6.2 -6.2 -6.2 -6.2 -6.2 -6.2 -6.2 -6.2 -6.2 -6.2 -6.2 -6.2 -6.2 -6.2 -6.2 -6.2 -6.2 -6.2 -6.2 -6.2 -6.2 -6.2 -6.2 -6.2 -6.2 -6.2 -6.2 -6.2 -6.2 -6.2 -6.2 -6.2 -6.2 -6.2 -6.2 -6.2 -6.2 -6.2 -6.2 -6.2 -6.2 -6.2 -6.2 -6.2 -6.2 -6.2 -6.2 -6.2 -6.2 -6.2 -6.2 -6.2 -6.2 -6.2 -6.2 -6.2 -6.2 -6.2 -6.2 -6.2 -6.2 -6.2 -6.2 -6.2 -6.2 -6.2 -6.2 -6.2 -6.2 -6.2 -6.2 -6.2 -6.2 -6.2 -6.2 -6.2 -6.2 -6.2 -6.2 -6.2 -6.2 -6.2 -6.2 -6.2 -6.2 -6.2 -6.2 -6.2 -6.2 -6.2 -6.2 -6.2 -6.2 -6.2 -6.2 -6.2 -6.2 -6.2 -6.2 -6.2 -6.2 -													_		+					-					-		 			
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MORIEBNA 5244186 EL2067 587250 626275 -80#SS 54322 0.4 4 -0.1 2 12 4 8500 65 0.4 2 185 5 -5 -5 -5 3.6 0.4 80 -0.1 na -0.2 na -0.2 na MORIEBNA 5244187 EL2067 58600 6262975 -80#SS 54322 0.4 -3 0.1 3 22 8 14200 110 0.5 5 280 10 -5 5 8 -6.6 12 -0.1 na -0.2 -0.2 -0.2 -0.2 -0.2 -0.2 -0.2 -				_			·1	0.5	<3		3				1 -	0.7	5	260	10	<5	5	5	0.65	7						
MCREENIA 5244188 EL2067 584650 6225975 -80#SS 54322 0.4 <3 <0.1 2 14 4 8500 65 0.4 4 135 5 <5 5 4.6 0.4 5 <0.1 na <0.2 na <0.2 na MCREENIA 5244188 EL2067 584650 622450 -80#SS 54322 0.4 <3 0.1 <2 10 6 5500 5500 5280 0 <5 <5 5 5 8 8 0.61 12 <0.1 na <0.2 na <0.2 na <0.2 na MCREENIA 5244189 EL2067 58505 622425 -80#SS 54322 0.4 <3 0.1 <2 10 6 5500 5500 5280 0 <5 <5 5 8 8 0.61 12 <0.1 na <0.2				1			54322	0.4		<0.1	2	12	4	8500	65	0.4	2	185	5	<5	<5	3.6	0.44	80	<0.1	na	<0.2	na	<0.2	na
MORIENIA 5244189 EL2067 585050 6224925 -80#SS 54322 0.4 <3 0.1 <2 10 6 5500 55 0.3 2 190 5 <5 10 4.6 0.5 9 0.2 na <0.2 na <0.2 na <0.2 na MORIENIA 5244190 EL2067 587285 6224925 -80#SS 54322 0.4 <3 0.1 2 14 8 7900 70 0.6 4 240 10 <5 5 7 0.71 16 <0.1 na <0.2 na <0.2 na <0.2 na MORIENIA 5244192 EL2067 588100 6224675 -80#SS 54322 0.4 <3 0.1 2 14 8 7900 70 0.6 4 240 10 <5 <5 0.5 10 11.5 1.05 8 0.2 na <0.2 na <0.2 na MORIENIA 5244193 EL2067 588250 6224125 -80#SS 54322 0.4 4 0.2 3 21 5 13700 95 1.1 4 160 10 <5 5 5 13 1.25 560 0.3 na <0.2 na <0.2 na MORIENIA 5244194 EL2067 588400 6223825 -80#SS 54322 0.4 4 0.2 3 23 10 14700 85 0.6 7 440 20 <5 5 13 1.25 560 0.3 na <0.2 na <0.2 na MORIENIA 5244195 EL2067 58750 6224575 -80#SS 54322 0.4 4 0.1 3 19 6 15400 70 1 4 155 10 <5 <5 10.5 0.6 4 8 <0.1 na <0.2 na <0.2 na MORIENIA 5244196 EL2067 58760 622455 -80#SS 54322 0.4 4 0.1 3 19 6 15400 70 1 4 155 10 <5 <5 10.5 0.72 10 <0.1 na <0.2 na <0.2 na MORIENIA 5244196 EL2067 58760 622125 -80#SS 54322 0.5 <3 0.1 <2 15 5 10500 80 1.3 3 220 10 <5 <5 10.5 0.72 10 <0.1 na <0.2 na <0.2 na MORIENIA 5244196 EL2067 58760 622125 -80#SS 54322 0.5 <3 0.1 <2 15 5 10500 80 1.3 3 220 10 <5 <5 10.5 0.72 10 <0.1 na <0.2 na <0.2 na MORIENIA 5244196 EL2067 58750 622155 -80#SS 54322 0.5 <4 0.1 3 21 8 20300 115 0.9 3 220 15 <5 5 10.5 0.72 10 <0.1 na <0.2 na <0.2 na MORIENIA 5244198 EL2067 58750 6221975 -80#SS 54322 0.5 <4 0.1 3 21 8 20300 115 0.9 3 220 15 <5 5 12 0.8 3 37 <0.1 0.2 <0.2 <0.2 <0.2 <0.2 <0.2 <0.2 <0.2	MOREENIA	5244187	EL2067	586000	6225975	-80#SS	54322	0.4	< 3	<0.1	2	14	4	8500	65	0.4	4	135	. 5	<5	5	4.6	0.4	5	<0.1	na	<0.2	na	<0.2	na
MOREENIA 5244190 EL2067 587285 6224925 -80#SS 54322 0.4 6 0.1 3 28 5 18200 75 1 3 105 10 <5 5 7 0.71 16 <0.1 na <0.2 n						-80#SS	54322	0.4	<3	0.1	3	22	8	14200	110	0.5	5	280	10	<5	<5	8	0.61	12	<0.1	na	<0.2	na	<0.2	na
MOREENIA 5244191 EL2067 588100 6224675 -80#SS 54322 0.4 <3 0.1 2 14 8 7900 70 0.6 4 240 10 <5 <5 6.5 0.65 8 0.1 na <0.2 na <0.2 na <0.2 na MOREENIA 5244192 EL2067 588750 6224575 -80#SS 54322 0.4 4 0.2 3 23 10 14700 85 0.6 7 440 20 <5 5 10 11.5 1.05 8 0.2 na <0.2 na <0.2 na <0.2 na MOREENIA 5244194 EL2067 58860 6224258 -80#SS 54322 0.4 4 0.2 3 23 10 14700 85 0.6 7 440 20 <5 5 10 11.5 1.05 8 0.2 na <0.2 na <0.2 na MOREENIA 5244194 EL2067 58870 6223250 -80#SS 54322 0.4 4 0.1 3 19 6 15400 70 1 4 155 10 <5 <5 10.5 10 11.5 1.05 0.7 10 <0.1 na <0.2 na <0.2 na <0.2 na MOREENIA 5244195 EL2067 58775 6223250 -80#SS 54322 0.5 4 0.1 <2 15 5 10500 80 1.3 3 220 10 <5 <5 7.5 0.6	MOREENIA	5244189	EL2067	585050	6224925	-80#SS	54322	0.4	<3	0.1	<2	10	6	5500	55	0.3	2	190	. 5	<5	10	4.6	0.5	9	0.2	na	<0.2	na	<0.2	na
MOREENIA 5244192 EL2067 588750 6224575 -80#SS 54322 0.4 4 0.2 3 21 5 13700 95 1.1 4 160 10 <5 10 11.5 1.05 8 0.2 na <0.2 na <0	MOREENIA	5244190	EL2067	587285	6224925	-80#SS	54322	0.4	6	0.1	3	28	5	18200	75	1	3	105	10	<5	5	7	0.71	16	<0.1	na	<0.2	na	<0.2	na
MOREENIA 5244193 EL2067 588825 6224125 -80#SS 54322 0.4 4 0.2 3 23 10 14700 85 0.6 7 440 20 <5 5 13 1.25 560 0.3 na <0.2 na <0	MOREENIA	5244191	EL2067	588100	6224675	-80#SS	54322	0.4	<3	0.1	2	14	8	7900	70	0.6	4	240	10	<5	<5	6.5	0.65	8	0.1	na	<0.2	na	<0.2	na
MOREENIA 5244194 EL2067 588400 6223825 -80#SS 54322 0.4 4 0.1 3 19 6 15400 70 1 4 155 10 <5 <5 10.5 0.72 10 <0.1 na <0.2 na <0	MOREENIA	5244192	EL2067	588750	6224575	-80#SS	54322	0.4	4	0.2	3	21	5	13700	95	1,1	4	160	10	<5	10	11.5	1.05	. 8	0.2	na	<0.2	na	<0.2	na
MOREENIA 5244195 EL2067 587400 6223250 -80#SS 54322 0.5																														

AREA	SAMPNO	TENEMENT	EAST	NORTH	MATERIAL	DPO	Ag	As	Bi	Co	Cr	Cu	Fe	Mn	Мо	Ni	Р	Pb	Sb	Sn	Th	U	Zn	Au	Au Dp1	Pt	Pt Dp1	Pd	Pd Dp1
74.127		,				SCHEME	IC3M	IC3E	IC3M	IC3E	IC3E	IC3E	IC3E	IC3E	IC3M	IC3E	IC3E	IC3E	IC3E	IC3E	IC3M	IC3M	IC3E	FA3M	FA3M	FA3M	FA3M	FA3M	FA3M
						DL	0.1	3	0.1	2	2	2	100	5	0.1	2	5	5	5	5	0.02	0.02	2	0.1	0.1	0.2	0.2	0.2	0.2
						UNITS	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PPB	PPB	PPB	PPB	PPB	PPB
MOREENIA	5244557	EL2067	599898	6211335	-80#SS	81598	0.1	<3	1.4	16	81	37	48200	720	0.9	34	720	30	10	15	13	2.8	74	0.1	na	0,2	na	0.4	na
MOREENIA	5244558	EL2067	600893	6211449	-80#SS	81598	<0.1	<3	0.6	6	30	11	19300	420	0.4	10	460	15	<5	5	12	1.75	33	< 0.1	<0.1	<0.2	<0.2	0.2	0.2
MOREENIA	5244559	EL2067	601210	6211715	-80#SS	81598	<0.1	<3	0.8	6	31	11	20700	380	0.6	11.	660	15	<5	5	11.5	1.95	32	0.1	na	<0.2	na	<0.2	na
MOREENIA	5244560	EL2067	599497	6213648	-80#SS	81598	<0.1	<3	0.6	6	24	12	17000	340	0.3	11	120	15	<5	<5	7.5	1.3	21	<0.1	na	0.2	na	0.4	na
MOREENIA	5244561	EL2067	599143	6212573	-80#SS	81598	<0.1	< 3	0.6	8	50	17	36200	320	0.9	17_	190	20	5	10	10.5	2.9	38	0.2	na	0.4	na	0.6	na
MOREENIA	5244562	EL2067	599079	6212441	-80#SS	81598	0.2	<3	0.4	3	14	9	10900	560	0,2	6	195	40	<5	<5	9	2.1	28	<0.1	na	<0.2	na	0.2	na
MOREENIA	5244563	EL2067	599229		-80#SS	81598	0.2	<3	0.5	2	15	10	10600	560	0.2	7	190	40	<5	<5	9.5	1.75	30	<0.1	na	<0.2	na	<0.2	na
MOREENIA	5244564	EL2067	599606		-80#SS	81598	<0.1	<3	0.5	_5_	35	15	27900	600	0.5	13	240	20	<5	10	14.5	3.4	45	<0.1	na	0.2	na	0.2	na
MOREENIA	5244565	EL2067		6211247	-80#SS	81598	0.2	<3	1.2	9	59	32	40200	740	0.6	24	200	35	10	10	13.5	2.6	80	0.2	na	0.4	na	0.4	na
MOREENIA	5244566	EL2067	600772		-80#SS	81598	<0.1	<3	1.2	9	45	13	26100	380	0.6	20	175	15	<5	10	11.5	3.7	31	<0.1	<0.1	<0.2	0.2	0.2	0.4
MOREENIA	5244567	EL2067		6212831	-80#SS	81598	<0.1	<3	0.8	8	54	20	32100	500	0.7	18	260	20	<5	10	13	9	47	0.1	na	0.4	na	0.6	na
MOREENIA	5244568	EL2067		6213414	-80#SS	81598	<0.1	<3	1	_5	35	10	21400	320	0.4	24	340	20	<5	5	7.5	1.75	32	<0.1	na	<0.2	na	<0.2	na
MOREENIA	5244569	EL2067	602784		-80#SS	81598	<0.1	<3	0.9	16	38	12	27600	940	0.4	16	220	25	<5	5	8 -	1.85	42	<0.1	na	0.2	na	0.2	na
MOREENIA	5244570	EL2067_	602911		-80#SS	81598	0.3	<3	0.4	4	26	10	17600	185	0.5	11	340	20	<5	<5	7	1.75	30	0.1	na	<0.2	na	0.4	na
MOREENIA	5244571	EL2067	604003		-80#SS	81598	0.1	<3	0.4	17	67	39	42800 34700	820	0.3	22	460 280	20 25	5 5	10	6 8.5	0.88	82	1	na	1	na	1	na
MOREENIA	5244572	EL2067	604260		-80#SS -80#SS	81598 81598	0.1	<3 <3	0.6	10	54 48	26	32900	560 520	1.4	22	460	20	<5	5	6	2.7 0.93	58 53	0.1 <0.1	na	0.8	na	0.8	na
MOREENIA	5244573 5244574	EL2067 EL2067		6213253 6212923	-80#SS	81598	<0.1	<3	0.3	15	54	28	47000	820	0.2	25	260	15	5	10	6	0.87	64	0.1	na na	1.2	na na	1	na na
MOREENIA	5244574	EL2067_	603731	6211413	-80#SS	81598	<0.1	<3	0.4	18	64	38	40800	920	0.5	35	400	20	5	5	7.5	0.79	75	<0.1	<0.1	0.8	0.4	0.6	1.2
MOREENIA	5244575	EL2067	595526		-80#SS	81598	<0.1	4	<0.1	<2	5	3	4800	40	0.3	33	300	<5	<5	<5	1.8	0.73	24	<0.1	na	<0.2	na na	<0.2	na
MOREENIA	5244590	EL2067	596834		-80#SS	81598	<0.1	<3	0.1	2	25	6	14500	95	0.5	6	620	15	<5	<5	4.2	0.97	25	<0.1	na	<0.2	na	<0.2	na
MOREENIA	5244591	EL2067	593795		-80#SS	81598	<0.1	<3	0.1	3	18	3	17300	65	0.5	8	50	10	<5	<5	7.5	0.6	16	<0.1	na	<0.2	na	<0.2	na
MOREENIA	5244593	EL2067	593424		-80#SS	81598	<0.1	<3	0.3	5	32	7	27800	85	0.7	12	115	15	<5	<5	17	1.1	27	<0.1	na	<0.2	na	<0.2	na
MOREENIA	5244594	EL2067	594692		-80#SS	81598	<0.1	<3	0.8	<2	28	9	23000	145	0.7	5	340	15	<5	<5	9.5	1.3	22	<0.1	na	<0.2	na	<0.2	na
MOREENIA	5244595	EL2067	593225		-80#SS	81598	<0.1	4	0.4	3	41	13	20700	240	0.8	6	280	20	<5	<5	10	1.65	23	0.2	na	<0.2	na	0.2	na
MOREENIA	5244596	EL2067	593197		-80#SS	81598	0,2	<3	1.1	4	35	11	35300	240	0.8	9	280	45	<5	5	22	2.7	46	0.2	na	<0.2	na	0.2	na
MOREENIA	5244597	EL2067	+	6219694	-80#SS	81598	<0.1	4	0.8	6	57	13	30200	160	0.9	16	240	25	5	5	13	2.2	37	<0.1	na	<0.2	na	<0.2	na
MOREENIA	5244598	EL2067	593709		-80#SS	81598	<0.1	<3	0.3	4	57	9	18000	130	0.5	7	440	20	<5	<5	12	1.85	25	<0.1	na	<0.2	na	<0.2	na
MOREENIA	5244599	EL2067	594193	6218634	-80#SS	81598	<0.1	<3	0.3	<2	24	8	14200	120	0.4	7	200	15	<5	<5	9	1.45	18	0.5	na	0.4	na	0.4	na
MOREENIA	5244600	EL2067	592353	6219970	-80#SS	81598	<0.1	<3	0.6	2	27	8	20000	200	1	6	460	30	<5	<5	27.5	4.1	28	0.4	na	<0.2	na	<0.2	na
MOREENIA	5244601	EL2067	592467	6221423	-80#SS	81598	<0.1	<3	1.5	2	26	11	32500	200	0.8	6	300	30	. <5	5	13.5	2.5	29	0.4	na	<0.2	na	0.6	na
MOREENIA	5244602	EL2067	595623	6219889	-80#SS	81598	0.1	<3	0.3	4	28	11	18200	195	0.5	10	340	15	<5	<5	7.5	1.4	26	0.4	na	<0.2	na	<0.2	na
MOREENIA	5244603	EL2067	600105	6224941	-80#SS	81598	<0.1	<3	0.1	<2	12	3	11100	90	0.3	-6	220	10	<5	<5	3.6	0.48	12	0.3	na	<0.2	na	<0.2	na
MOREENIA	5244604	EL2067	599536	6226920	-80#SS	81598	<0.1	<3	0.1	<2	15	.5	11400	80	0.4	5	320	1.0	<5	<5	3.6	0.66	14	0.4	na	<0.2	na	<0.2	na
MOREENIA	5244605	EL2067	599599	6227061	-80#SS	81598	<0.1	<3	0.2	3	28	7	18500	115	0.5	12	360	15	<5	<5	7	1	21	0.5	na	<0.2	na	<0.2	na _
MOREENIA	5244606	EL2067	605643	6225474	-80#SS	81598	0.1	<3	0.5	5	32	12	22200	260	0.4	16	400	25	<5	<5	7.5	1.2	55	0.7	na	<0.2	na	0,2	na
MOREENIA	5244607	EL2067	606579	6225464	-80#SS	81598	<0.1	<3	0.3	4	24	12	16500	260	0.3	13	360	10	<5	<5	4.5	0.76	34	0.2	na	<0.2	na	<0.2	na
MOREENIA	5244612	EL2067	595619	6209080	-80#SS	81598	0.2	<3	0.4	4	25	10	16400	175	0.5	10	175	20	<5	<5	18.5	2.1	23	0.2	na	<0.2	na	<0.2	na
MOREENIA	5244613	EL2067	595366	6208600	-80#SS	81598	0.1	6	0.6	4	26	13	15600	195	0.6	7	220	25	<5	<5	58	7.5	22	0.5	na	<0.2	na	0.2	na
MOREENIA	5244614	EL2067	595305	6208420	-80#SS	81598	<0.1	<3	0.5	4	18	12	14100	340	0.5	7	240	25	<5	<5	24	3.9	21	0.5	na	<0.2	na	0.2	na
MOREENIA	5244615	EL2067	595267	6208230	-80#SS	81598	<0.1	<3	8.0	4	19	7	13400	920	0.2	. 4	240	30	<5	<5	24	4.2	18	0.2	na	<0.2	na	<0.2	na
MOREENIA	5244616	EL2067	595450	6208131	-80#SS	81598	<0.1	<3	0.3	3	11	5_	16100	300	0.2	4	130	20	<5	<5	6	1.7	24	0.5	0.3	<0.2	<0.2	<0.2	<0.2
MOREENIA	5244617	EL2067	595872	6209605	-80#SS	81598	<0.1	6	0.3	4	27	10	16400	135	0.8	11	130	20	<5	<5	18.5	2.7	19	0.4	na	<0.2	na	<0.2	na
MOREENIA	5244618	EL2067	595944	6209360	-80#SS	81598	<0.1	8	1.1	5	38	16	30800	220	0.7	12	120	25	<5	5	22	3.2	35	0.2	na	<0.2	na	<0.2	na
MOREENIA	5244619	EL2067	596095	6209381	-80#SS	81598	<0.1	<3	1	5	30	9	21800	220	0.4	9	130	30	<5	<5	14	2.5	29	0.7	na	<0.2	na	0.2	na
MOREENIA	5244620	EL2067	592772	6209491	-80#SS	81598	< 0.1	42	0,1	<2	14	5	280000	200	1.3	6	1600	20	<5	<5	. 8	1.65	65	0.6	na	<0.2	na	<0.2	na
MOREENIA	5244621	EL2067	592910	6211215	-80#SS	81598	<0.1	<3	0.2	4	28	5	17100	110	0.8	9	175	15	<5	<5	15	1.55	12	0.5	na	0.2	na	0.2	na
MOREENIA	5244622	EL2067	593880	6212991	-80#SS	81598	<0.1	4	0.2	5	29	4	21500	85	0.7	12	85	10	<5	<5	15	1.55	17	0.6	na	<0.2	na	0.2	na
MOREENIA	5244623	EL2067	595022	6214008	-80#SS	81598	<0.1	<3	0.3	5	39	8	24900	135	0.8	12	420	20	<5	<5	16.5	1.9	43	0.7	na	<0.2	na	<0.2	na
MOREENIA	5244624	EL2067	597663	6217673	-80#SS	81598	0.1	<3	0.2	3	29	8	20500	110	0.4	10	300	15	<5	<5	17	2.2	21	0.4	na	<0.2	na	<0.2	na
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AREA	SAMPNO	TENEMENT	EAST	NORTH	MATERIAL	DPO	Ag	As	Bi	Co	Cr	Cu	Fe	Mn	Мо	Ni	Р	Pb	Sb	Sn	Th	U	Zn	Au	Au Dp1	Pt	Pt Dp1	Pd	Pd Dp1
						SCHEME	IC3M	IC3E	IC3M	IC3E	IC3E	IC3E	IC3E	IC3E	IC3M	IC3E	IC3E	IC3E	IC3E	IC3E	IC3M	IC3M	IC3E	FA3M	FA3M	FA3M	FA3M	FA3M	FA3M
						DL	0.1	3	0.1	2	2	2	100	5	0.1	2	5	5	5	5	0.02	0.02	2	0.1	0.1	0.2	0.2	0.2	0.2
						UNITS	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PPB	PPB	PP8	PPB	PPB	PPB
MOREENIA	5244625	EL2067	598698	6215954	-80#SS	81598	<0.1	<3	0.2	3	27	9	16300	105	0.7	6	440	10	<5	<5	10	1.45	21	0.4	na	<0.2	na	<0.2	na
MOREENIA	5244626	EL2067	598787	6215425	-80#SS	81598	0.1	<3	0.3	5	25	20	18600	280	0.8	10	580	15	<5	<5	11.5	2.1	37	0.4	na	0.2	na	0.4	na
MOREENIA	5244627	EL2067		6215322	-80#SS	81598	0.2	<3	0.4	4	33	10	23300	195	0.7	10	300	20	< 5	<5	19	2.3	23	0.5	na	<0.2	na	0.4	na
MOREENIA	5244628	EL2067		6214243	-80#SS	81598	<0.1	<3	0.3	<2	23	6.	17500	85	0.7	6	240	10	<5	<5	11.5	1.55	13	0,3	na .	<0.2	na	0.4	na
MOREENIA	5244629	EL2067		6214322	-80#SS	81598	0.2	4	0.9	9	63	27	59600	300	1.6	22	260	35	<5	<5	33	8	41	0.2	na	<0.2	na	0.2	na
MOREENIA	5244630	EL2067		6213925	-80#SS	81598	0.1	4	0.4	33	19	12	28600	2200	0.4	23	220	20	<5	<5	43.5	7.5	74	0.5	na	<0.2	na	0.2	na
MOREENIA	5244631	EL2067		6214044	-80#SS	81598	0.1	<3	1.1	9	41	26	28400	600	0.8	18	800	25	<5	<5	13.5	2	44	<0.1	1.2	<0.2	<0.2	0.4	<0.2
MOREENIA	5244632	EL2067		6214457	-80#SS	81598	<0.1	<3	0.2	3	21	5	12900	110	0.3	7	360	20	<5	<5	23	4.1	19	0.4	0.5	<0.2	<0.2	<0.2	0.2
MOREENIA	5244633	EL2067		6228250	-80#SS	54322	0.4	<3	0.1	3	15	6	9200	240	0.5	4	220	10	<5	<5	6.5	0.76	10	0.3	na	<0.2	na	<0.2	na
MOREENIA	5244634	EL2067		6228875	-80#SS	54322	0.4	<3	0.2	5	30	6	17700	140	0.5	7	155	15	< 5	5	6	0.56	17	0.4	na	<0.2	na	<0.2	na
MOREENIA	5244635	EL2067 EL2067		6228850 6228650	-80#SS -80#SS	54322 54322	0.4	<3 <3	<0.1	<2 5	8 27	11	5700	160	0.2	3	140	5	< 5	<5	3.5	0.42	6	<0.1	na	<0.2	na	<0.2	na
MOREENIA	5244636 5244637	EL2067		6230425	-80#SS	54322	0.5	<3	0.3		12	7	16700 8600	260	0.5	13	220	20	<5	5	6.5	0.76	49	0.2	na	<0.2	na	<0.2	na
MOREENIA	5244801	EL2067		6218755	-80#SS	81598	<0.1	<3	0.3	3	29	8	21400	170	0.4	10	300	10	<5 <5	<5 <5	4.7 16	0.64	10	0.1	na	<0.2	na	<0.2	na
MOREENIA	5244802	EL2067		6219556	-80#SS	81598	<0.1	<3	0.2	<2	19	7	13000	145	0.4	6	200	15	<5	<5	14.5	1.95	18	0.3	na	<0.2	na	<0.2	na
MOREENIA	5244803	EL2067		6220484	-80#SS	81598	<0.1	<3	0.5	4	41	16	34100	170	0.7	10	420	25	<5	<5	32	3.7	28	0.4	na na	<0.2 <0.2	na na	<0.2	na
MOREENIA	5244804	EL2067		6223061	-80#SS	81598	0.1	<3	0.6	6	54	8	33800	140	1.3	17	240	20	<5	<5	22.5	1.95	23	0.5	na	<0.2		0.2	na
MOREENIA	5244805	EL2067		6223122	-80#SS	81598	<0.1	<3	0.1	2	20	5	12100	75	0.4	8	320	5	<5	<5	4.7	0.58	16	0.4	na	<0.2	na na	<0.2	na na
MOREENIA	5244806	EL2067		6223140	-80#SS	81598	<0.1	<3	0.1		21	5	12200	50	0.5	7	165	10	<5	<5	5.5	0.62	10	0.1	na	<0.2	na	<0.2	na
MOREENIA	5244807	EL2067		6222354	-80#SS	81598	<0.1	4	0.2	7	39	30	26100	125	0.7	18	65	10	<5	5	8	0.46	43	0.5	0.4	<0.2	<0.2	<0.2	<0.2
MOREENIA	5244808	EL2067	581324	6222211	-80#SS	81598	0.1	<3	0.2	6	37	7	19400	75	0.7	14	200	10	<5	<5	8.5	0.81	20	0.3	na	<0.2	na	<0.2	na
MOREENIA	5244809	EL2067	587418	6221263	-80#SS	81598	<0.1	<3	0.2	3	24	11	14400	105	0.8	8	520	15	<5	<5	24.5	2.5	18	0.5	na	<0.2	na	<0.2	na
MOREENIA	5244810	EL2067	586479	6220616	-80#SS	81598	0.1	<3	0.3	4	43	9	25200	150	1.7	16	135	20	.<5 _.	<5	26.5	2.6	22	0.2	na	<0.2	na	<0.2	na
MOREENIA	5244811	EL2067	586631	6220655	-80#SS	81598	<0.1	<3	0.2	3	19	6	16000	100	0.6	7	75	10	<5	<5	15	1.5	13	0.3	na	<0.2	na	<0.2	na
MOREENIA	5244812	EL2067	582204	6220033	-80#SS	81598	<0.1	<3	0.1	_2	15	.4	10200	105	0.5	6	280	< 5	<5	<5	4.2	0.66	1.1.	0.3	na	<0.2	na	<0.2	na
MOREENIA	5244813	EL2067	583604	6219221	-80#SS	81598	<0.1	<3	0.2	. 6	29	6	24800	260	0.9	11	240	15	<5	<5	28.5	2.6	18	0.2	na	<0.2	na	<0.2	na
MOREENIA	5244814	EL2067	582498	6218718	-80#SS	81598	0.3	4	0.3	9	54	9	34800	220	1,7	17	240	20	<5_	5	41	3.2	23	0.4	na	<0.2	na	<0.2	na
MOREENIA	5244815	EL2067		6210400	-80#SS	54322	0.5	_<3	0.2	2	_ 7	5	6100	80	0.3	<2	130	15	<5	<5	23.5	1.9	12	<0.1	<0.1	<0.2	<0.2	<0.2	<0.2
MOREENIA	5244816	EL2067		6210650	-80#SS	54322	0.6	8	0.3	4	17	8	11100	400	1.3	<2	460	45	<5_	15	220	13.5	17	<0.1	na	<0.2	na	<0.2	na
MOREENIA	5244817	EL2067		6210500	-80#SS	54322	0.6	6	0.1	3	13	7	15200	195	8.0	<2	380	35	<5	10	110	6.5	21	<0.1	na	<0.2	na	<0.2	na
MOREENIA	5244818	EL2067		6210950	-80#SS	54322	0.6	4	0.2	9 .	27	12	26300	340	1.8	5	480	35	<5	10	5.5	6	29	<0.1	na	<0.2	na	<0.2	na
MOREENIA	5244819	EL2067		6211225	-80#SS	54322	0.6	6	0.3	5	19	7	18600	220	1.4	<2	280	30	<5	10	80	6.5	50	<0.1	na	<0.2	na	<0.2	na
MOREENIA	5244820	EL2067		6211125	-80#SS	54322	0.5	4	0.2	3	15	8	16800	220	1.2	<2	360	35	<5	5	43.5	4	15	0.7	na	<0.2	na	<0.2	na
MOREENIA	5244821	EL2067		6211075	-80#SS	54322	0.5	6	0.2	3	14	6	16200	240	1.3	<2	340	40	<5	5	88	4.7	16	<0.1	na	<0.2	na	<0.2	na
MOREENIA	5244822	EL2067		6211575	-80#SS	54322	0.4	4	0.2	4	87	8	16100	160	1.9	21	560	25	<5	5	50	3.2	14	<0.1	na	<0.2	na	<0.2	na
MOREENIA	5244823	EL2067		6212250	-80#SS	54322	0.4	4	0.4	- 5	93	12	19100	135	1.4	4	540	30	<5	_ 5	37.5	4	14	<0.1	na	<0.2	na	0.2	na
MOREENIA MOREENIA	5244824	EL2067		6212200	-80#SS -80#SS	54322	0.4	6	0.3	4	30	10 7	17100	185	1.9	<2	380	30	<5	10	55	4.3	13	<0.1	na	<0.2	na	<0.2	na
MOREENIA	5244825	EL2067		6212550	-80#SS	54322 54322			0.3	<2 2	15		12200	100	0.4	<2	320	15	<5	<5	24	1.85	11	0.3	0.2	<0.2	<0.2	<0.2	<0.2
MOREENIA	5244826 5244827	EL2067 EL2067		6211625 6212525	-80#SS	54322	0.4	<3 4	0.3	4	14	10	9400 22000	220	1.1	<2 <2	480 340	25 30	<5 	<5	19 73	1.7 4.9	14	0.2	na	<0.2	na	<0.2	na
MOREENIA				6213100	-80#SS	54322	0.4	8	0.1	<2	9	7	13200	240		-			<5	<5		-,	25	0.5	na	<0.2	na	<0.2	na
MOREENIA	5244828	EL2067 EL2067		6213075	-80#SS	54322	0.4	<3	0.1	<2	10	5	13500	135	0.7	<2 <2	280 190	30	<5	<5	83 51	5	24	0.4	na	<0.2	na	<0.2	na
MOREENIA	5244830	EL2067	584600		-80#SS	54322	0.4	4	0.2	6	31	12	22100	440	0.7	4	300	20	<5 <5	<5 5	15	3.7 0.94	16	0.3	na	<0.2	na	<0.2	na
MOREENIA	5244831	EL2067	584700		-80#SS	54322	0.3	<3	<0.1	<2	14	5	9400	75	0.7	3	260	10	<5 <5	<5	5.5	0.58	9	0.3	na na	<0.2	na	<0.2	na
MOREENIA	5244832	EL2067	585375		-80#SS	54322	0.3	<3	0.1	2	23	5	17400	75	0.5	<2	95	15	<5 <5	<5 <5	21.5	1.35	8	0.2	na na	<0.2	na	<0.2	na
MOREENIA	5244833	EL2067	-	6220925	-80#SS	54322	0.3	4	0.2	<2	12	6	9600	100	0.5	<2	100	15	<5	<5	22	2	11	0.3	na	<0.2	na na	<0.2	na na
MOREENIA	5244834	EL2067		6219375	-80#SS	54322	0.4	8	0.2	6	32	9	22300	300	0.8	<2	190	30	<5	5	67	3.8	17	0.4	na	<0.2	na	<0.2	na
MOREENIA	5244835	EL2067	587275		-80#SS	54322	0.5	6	0.2	10	32	6	34400	85	1.1	9	195	30	<5	5	49.5	3.0	27	0.5	na	<0.2	na	<0.2	na
MOREENIA		EL2067	587850		-80#SS	54322	0.3	4	<0.1	<2	5	<2	6900	35	0.2	2	25	20	<5	<5	5	0.41	7	0.3	na	<0.2	na	<0.2	na
MOREENIA		EL2067	590550		-80#SS	54322	0.4	8	0.3	6	26	. 5	23900	70	1	<2	340	45	<5	5	145	11.5	17	0.5	na	<0.2	na	<0.2	na

AREA	SAMPNO	TENEMENT	EAST	NORTH	MATERIAL	DPO	Ag	As	Bi	Co	Cr	Cu	Fe	Mn	Mo	Ni	P	Pb	Sb	Sn	Th	TU I	Zn	Au	Au Dp1	Pt	Pt Dp1	Pd	Pd Dp1
						SCHEME	IC3M	IC3E	IC3M	IC3E	IC3E	IC3E	IC3E	IC3E	IC3M	IC3E	IC3E	IC3E	IC3E	IC3E	IC3M	IC3M	IC3E	FA3M	FA3M	FA3M	FA3M	FA3M	FA3M
						DL	0.1	3	0.1	2	2	2	100	5	0.1	2	5	5	5	5	0.02	0.02	2	0.1	0.1	0.2	0.2	0.2	0.2
						UNITS	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PPB	PPB	PPB	PPB	PPB	PPB
MOREENIA	5244838	EL2067	589550	6222475	-80#SS	54322	0.4	<3	0.3	5	26	10	18500	175	0.8	<2	380	20	<5	<5	17	1,25	16	<0.1	0.3	<0.2	<0.2	<0.2	<0.2
MOREENIA	5244839	EL2067	589100	6221175	-80#SS	54322	0.3	<3	0.1	3	18	7	12200	100	0.7	<2	440	25	<5	<5	25.5	2	15	0.3	nà	<0.2	na	<0.2	na
MOREENIA	5244840	EL2067	591550	6223800	-80#SS	54322	0.3	<3	0.2	<2	11	4	8700	70	0,5	<2	90	15	<5	<5	21	0.94	8	0.2	na	<0.2	na	<0.2	na
MOREENIA	5244841	EL2067	591350	6223850	-80#SS	54322	0.4	4	0.2	6	35	. 7	23500	85	0.7	7	90	20	<5	<5	14.5	0.72	16	0.2	na	<0.2	na	<0.2	na
MOREENIA	5244842	EL2067	590425	6224450	-80#SS	54322	0.3	<3	<0.1	<2	12	5	10300	65	0.3	2	175	10	<5	<5	5.5	0.37	9	0.2	na	<0.2	na	<0.2	na
MOREENIA	5244843	EL2067	604525	6220950	-80#SS	54322	0.4	<3	0.2	11	41	29	28800	380	0.3	21	220	20	<5	<5	6	0.58	32	0.6	na	0.8	na	1.2	_na
MOREENIA	5244844	EL2067	604225	6221125	-80#SS_	54322	0.4	6	0.3	14	57	25	35900	780	1.1	23	195	30	<5	5	12	1.35	39	0.6	na	0.4	na	0.4	na
MOREENIA	5244845	EL2067	605175	6220000	-80#SS	54322	0.3	<3	0.2	3	14	8	10600	160	0.3	5	260	10	<5	<5	5	0.62	17	0.2	na	<0.2	na	<0.2	na
MOREENIA	5244846	EL2067	605275	6219350	-80#SS	54322	0.4	<3	0.2	5	20	8	13900	240	0.3	6	280	_ 15	<5	<5	7	0.95	15	0.3	na	<0.2	na	<0.2	na
MOREENIA	5244847	EL2067		6219300	-80#SS	54322	0.4	<3	0.3	7	35	13	23200	320	0.8	. 11	260	30	<5	<5	11	1.2	31	0.4	na	0.2	na	<0.2	na
MOREENIA	5244848	EL2067	602775	6226250	-80#SS	54322	0.3	<3_	<0.1	<2	9	4	7600	65	0.3	3	220	15	<5	<5	3	0.42	10	0.1	na	<0.2	na	<0.2	na
MOREENIA	5244849	EL2067		6226350	-80#SS	54322	0.3	<3	0.1	3	19	7	14100	135	0.4	4	320	15	<5	<5	6	0.64	13	0.2	na	<0.2	na	<0.2	na
MOREENIA	5244850	EL2067		6227200	-80#SS	54322	0.4	<3	<0.1	<2	7	5	6000	70	0.2	<2	220	1.0	<5	<5	2.7	0.37	9	0.2	0.2	<0.2	<0.2	<0.2	<0.2
MOREENIA	5244851	EL2067		6197698	-80#SS	81598	<0.1	4	0.2	6	22	13	22800	320	0.8	7	420	25	<5	<5	73	7	37	0.7	na	<0.2	na	<0.2	na
MOREENIA	5244852	EL2067		6197684	-80#SS	81598	0.1	<3	0.2	8	31	16	24400	1300	0.7	9	380	20	<5	<5	21.5	2	38	0.7	<0.1	0.2	1.6	0.8	<0.2
MOREENIA	5244853	EL2067		6197913	-80#SS	81598	<0.1	<3	0.2	10	39	25	41400	720	0.9	10	200	25	<5	5	39.5	3.7	61	0.6	na	0.2	na	0.4	na
MOREENIA	5244855	EL2067		6198908	-80#SS	81598	0.1	<3	0.2	4	28	9	18100	105	0.8	9	360	5	<5	<5	13	1.25	19	0.5	na	<0.2	na	0.2	na
MOREENIA	5244917	EL2067		6197293	-80#SS	81598	<0.1	< 3	0.2	6	24	8	34300	260	1.1	7	440	25	<5	5	64	7.5	36	1.5	na	0.2	na	<0.2	na
MOREENIA	5244918	EL2067		6197324	-80#SS	81598	<0.1	4	0.1	_5_	22	5	23700	320	1 1	7	320	20	<5	<5	52	5	27	0.4	na	<0.2	na	<0.2	na
MOREENIA MOREENIA	5244919 5244920	EL2067 EL2067		6197477	-80#S S -80#SS	81598 81598	<0.1	<3 <3	0.2	8 8	35	40 19	44400 33400	720 1800	1.3	14	440 600	30	<5	<5	26	4.7	51	1	na	0.4	na	0.4	na
MOREENIA		EL2067 EL2067	_	6198685	-80#SS	81598	<0.1	<3	0.2	10	39	26		1400	1.1			15	<5 <5	. 5	20.5	4.3	50	0.6	na	0.2	na	0.2	na
MOREENIA	5244921 5244922	EL2067 EL2067		6195279	-80#SS	81598	<0.1	<3	0.2	6	39	9	31900 24300	360	2.3	15	560 600	35 15	<5 <5	<5 5	19.5	3.1	67 26	0.3	na na	0.2 <0.2	na na	<0.2 <0.2	na na
MOREENIA	5244923	EL2067	574885		-80#SS	81598	<0.1	<3	0.2	4	32	7	23400	280	1.6	9	620	15	<5	5	15.5	1.9	46	0.5		<0.2		<0.2	
MOREENIA	5244924	EL2067		6194891	-80#SS	81598	<0.1	<3	0.8	7	72	16	31100	560	1.1	17	460	15	10	10	18	3.4	34	0.8	na <0.1	0.4	na 3.2	1.2	2.2
MOREENIA	5244962	EL2067	-	6216054	-80#SS	81598	<0.1	<3	<0.1	<2	4	<2	4400	35	0.3	4	165	<5	<5	<5	1.6	0.27	5	<0.1	na	<0.2	na	<0.2	na
MOREENIA	5244963	EL2067		6214933	-80#SS	81598	<0.1	4	0.1	2	10	4	9000	55	0.5	6	200	<5	<5	<5	3.4	0.39	9	<0.1	na	<0.2	na	<0.2	na
MOREENIA	5244967	EL2067	585447	6204247	-80#SS	81598	<0.1	<3	0.5	6	52	35	27400	380	0.7	13	500	10	<5	<5	9.5	2.2	33	0.2	na	0.2	na	0.6	na
MOREENIA	5244969	EL2067	583674	6214454	-80#SS	81598	0.2	<3	0.3	4	27	8	21800	260	1.9	15	190	30	<5.	5	48.5	3.8	23	0.3	na	<0.2	na	<0.2	na
MOREENIA	5244970	EL2067	583384	6214853	-80#SS	81598	<0.1	4	0.2	2	17	.8	11300	90	1.2	5	560	25	<5	<5	120	. 6	15	<0.1	na	<0.2	na	<0.2	na
MOREENIA	5244971	EL2067	581887	6215625	-80#SS	81598	<0.1	<3	0.1	3.	20	6	14400	130	1.1	7	260	15	<5	<5	21	2.4	12	<0.1	na	<0.2	na	<0.2	na
MOREENIA	5244972	EL2067	581506	6215305	-80#SS	81598	<0.1	4	0.1	3	15	3	17300	100	0.9	5	135	10	<5	<5	16	1	9	0.4	0.2	<0.2	1.2	<0.2	0.4
MOREENIA	5244973	EL2067	578958	6214561	-80#SS	81598	<0.1	<3	<0.1	2	16	. 5	9600	8.0	0.7	5	300	<5	<5	<5	5.5	0.47	11	<0.1	na	<0.2	na	<0.2	na
MOREENIA	5244974	EL2067	578626	6212999	-80#SS	81598	0.1	<3	0.2	7	45	3	38400	200	1.3	17	165	20	10	5	63	3.5	30	<0.1	na	<0.2	na	<0.2	na
MOREENIA	5244975	EL2067	579094	6212850	-80#SS	81598	<0.1	<3	0.2	3	26	7	16300	130	0.9	9	240	15	<5	<5	18	1.55	18	<0.1	na	<0.2	na	<0.2	na
MOREENIA	5244976	EL2067		6213102	-80#SS	81598	<0.1	_<3	0.2	6	39	12	25100	150	1.9	13	600	20	< 5	<5	19.5	1.65	28	<0.1	na	<0.2	na	<0.2	na
MOREENIA	5244977	EL2067		6213352	-80#SS	81598	<0.1	4	<0.1	<2	12	6	11500	115	0.7	5	280	<5	<5	<5	7.5	0.61	16	<0.1	na	<0.2	na	<0.2	na
MOREENIA	5244978	EL2067		6213544	-80#SS	81598	0.2	<3	0.1	3	26	7	15700	135	1.5_	16	180	20	<5	<5	43	3.2	18	0.3	na	<0.2	na	<0.2	na
MOREENIA	5244979	EL2067		6213504	-80#SS	81598	<0.1	<3	0.2	3	22	5	14100	145	1.1	7	240	20	<5	5	72	6.5	18	0.3	na	<0.2	na	<0.2	na
MOREENIA	5244980	EL2067		6210625	-80#SS	81598	0.1	6	0.2	6	28	4	24600	280	1.2	9	260	25	<5	5	95	7.	28	0.3	na	<0.2	na	0.2	na
MOREENIA	5244981	EL2067		6211947	-80#SS	81598	<0.1	<3	0.2	3	22	10	17200	195	0.6	6	440	15	<5	<5	17.5	3	23	<0.1	na	<0.2	na	<0.2	na
MOREENIA	5244982	EL2067		6210711	-80#SS	81598	<0.1	<3	0.2	4	31	5	22900	65	0.7	10	145	10	< 5	<5	11.5	1.	22	0.1	na	<0.2	na	0.2	na
MOREENIA	5244983	EL2067		6210319	-80#SS	81598	<0.1	<3	0.3	3	26	10	21700	120	0.7	10	180	15	<5	<5	13	1.5	27	0.2	na	0.2	na	0.2	na
MOREENIA	5244984	EL2067		6212247	-80#SS	81598	<0.1	<3	0.5	6	34	20	34200	1100	1	17	500	15	<5	<5	14	2.2	35	0.4	na	0.4	na	0.2	na
MOREENIA	5244985	EL2067		6210745	-80#SS	81598	<0.1	<3	0.2	4	20	<2	20800	180	0.9	8	280	15	<5	< 5	28	2.8	19	0.4	na	<0.2	na	<0.2	na
MOREENIA	5244986	EL2067		6210443	-80#SS	81598	<0.1	4	0.2	3	12	5	21700	800	0.7	<2	360	30	<5	<5	125	10	46	0.2	na	<0.2	na	<0.2	na
MOREENIA	5244987	EL2067		6217691	-80#SS	81598	<0.1	<3	0.2	6	28	4	22600	105	0.8	14	195	5	<5	<5 _.	11.5	1.15	22	0.4	na	<0.2	na	<0.2	na
MOREENIA	5244988	EL2067		6218104	-80#SS -80#SS	81598	<0.1	<3	0.2	2	19	48	12800	95	0.5	6	300	10	<5	<5	7.5 6	0.87	27	0.1	na	<0.2	na	<0.2	na
MOREENIA	5244989	EL2067	572379	-		81598	<0.1	<3 <3	0.1	2	19	5	12500	70	0.9	8	240	5	<5	<5		0.68	1.0	0.2	na	<0.2	na	<0.2	na
MOREENIA	5244990	EL2067	3/3219	6218710	-80#SS	81598	50.1	<3	0.2	۷	16		12200	60	0.7	10	240	<5	<5	<5	4.6	0.59	11	1.1	na	<0.2	na _	<0.2	na

More80SS.xls

AREA	SAMPNO	TENEMENT	EAST	NORTH	MATERIAL	DPO	Ag	As	Bi	Co	Cr	Cu	Fe	Mn	Мо	Ni	P	Pb	Sb	Sn	Th	U	Zn	Au	Au Dp1	Pt	Pt Dp1	Pd	Pd Dp1
						SCHEME	IC3M	IC3E	IC3M	IC3E	IC3E	IC3E	IC3E	IC3E	IC3M	IC3E	IC3E	IC3E	IC3E	IC3E	IC3M	IC3M	IC3E	FA3M	FA3M	FA3M	FA3M	FA3M	FA3M
						DL	0.1	3	0.1	2	2	2	100	5	0.1	2	5	5	5	5	0.02	0.02	2	0.1	0.1	0.2	0.2	0.2	0.2
						UNITS	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PPB	PPB	PPB	PPB	PPB	PPB .						
MOREENIA	5244991	EL2067	577204	6225152	-80#SS	81598	<0.1	<3	0.4	3	31	6	21500	90	0.8	9	520	10	<5	<5	8	0.83	24	0.2	na	<0.2	na	<0.2	na
MOREENIA	5244992	EL2067	584288	6222874	-80#SS	81598	<0.1	6	0.2	4	29	6	19300	130	1.1	10	600	<5	<5	<5	8	1.4	32	1	1.4	0.8	0.4	0.4	0.4
MOREENIA	5244993	EL2067	583753	6219938	-80#SS	81598	<0.1	10	0.2	3	29	10	23700	220	1.2	14	340	30	<5	5	97	6.5	28	0.6	na	0.4	na	0.2	na
MOREENIA	5244994	EL2067	582358	6217112	-80#SS	81598	<0.1	<3	0.4	3	28	9	21800	130	1.5	9	300	15	<5	<5	18	1.75	21	0.7	<0.1	0.4	<0.2	<0.2	<0.2
MOREENIA	5244995	EL2067	583443	6217281	-80#SS	81598	<0.1	4	0.3	9	42	7	31700	480	1.6	17	120	25	<5	5	29	2.1	24	1.1	na	0.4	na	0.2	na
MOREENIA	5244996	EL2067	580203	6218962	-80#SS	81598	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na						
MOREENIA	5244997	EL2067	580452	6218911	-80#SS	81598	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na						
MOREENIA	5244998	EL2067	574853	6220178	-80#SS	81598	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na						
MOREENIA	5244999	EL2067	575433	6221205	-80#SS	81598	na	na	na	na	na	na	nà	na	na	na	na	na											
MOREENIA	5245000	EL2067	575245	6220929	-80#SS	81598	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na						

APPENDIX V

CONTRACTORS REPORT:

TUMBY BAY AIRBORNE MAGNETIC & RADIOMETRIC SURVEY

LOGISTICS & PROCESSING REPORT

Tumby Bay, South Australia

for

CRA Exploration Pty Ltd

by

TESLA AIRBORNE GEOSCIENCE PTY LTD
TESLA-10 PTY LTD
March 1996

A.C.N. 009 183 082

LOGISTICS REPORT

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- 1. SURVEY DETAILS
 - a) Survey Location
 - b) Survey Specifications
- 2. PERSONNEL
- 3. AIRCRAFT AND EQUIPMENT
 - a) Summary
 - b) Magnetometer and Compensator
 - c) Gamma-Ray Spectrometer
 - d) Data Acquisition System
 - e) Navigation
 - f) Radar Altimeter
 - g) Temperature and Humidity
 - h) Barometer
 - i) Base Station Magnetometer
 - j) GPS Base Station Position
- 4. CALIBRATION
 - a) Magnetic Compensation
 - b) Gamma-Ray Spectrometer

APPENDICES

- A) Survey Area Location Map
- B) Daily Operations Report
- C) Compensation Box Statistics
- D) Daily Calibration Logs
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- F) GPS Base Station Records
- G) Geometrics G-822A Cesium Magnetometer Sensor Specifications
- H) RMS Instruments Automatic Aeromagnetic Digital Compensator Specifications
- I) Exploranium GR-820 Gamma-Ray Spectrometer Specifications
- J) Novatel 951R Global Positioning System Card Specifications
- K) Bendix King KRA-10A Radar Altimeter Specifications
- L) Vaisala HMD50Y Temperature and Humidity Sensor Specifications
- M) Vaisala PTB 200A Digital Barometer Specifications
- N) Geometrics G-856 Magnetometer Specifications

INTRODUCTION

On the 6th November 1995 Tesla Airborne Geoscience Pty Ltd was contracted to acquire and process airborne geophysical data for CRA Exploration Pty Ltd over Tumby Bay Area, South Australia.

All final processing and map production was carried out by Tesla-10 Pty Ltd in their Perth office.

1. SURVEY DETAILS

The Tumby Bay airborne survey covers sections of the Lincoln and Kimba 1:250,000 topographic map sheets.

a) SURVEY LOCATION

A map of the survey area location can be found in Appendix A. The eastings and northings of the boundary lines, beginning at the north west corner and preceding clockwise, are as follows. The co-ordinates reference AGD84.

Section 1

577029 E	6246296 N	567590 E	6219108 N
585752 E	6246451 N	570662 E	6219085 N
585621 E	6238675 N	570718 E	6226477 N
607756 E	6238449 N	572255 E	6226466 N
607489 E	6215039 N	572311 E	6233858 N
620030 E	6214888 N	576927 E	6233822 N
616227 E	6207541 N	577029 E	6246296 N
610386 E	6200219 N		
602955 E	6197854 N		
599633 E	6197890 N		
599574 E	6192546 N		_
591914 E	6192625 N		•
591896 E	6190777 N		
588833 E	6190806 N		
588780 E	6185661 N		
585719 E	6185691 N		
585650 E	6178298 N		
564337 E	6178470 N	*	
564390 E	6200648 N		
562857 E	6200659 N		
562894 E	6206203 N		
564428 E	6206193 N		
564467 E	6211737 N		
567536 E	6211715 N		

Section 2

574000 E	6276200 N
589600 E	6276200 N
589600 E	6266200 N
587200 E	6265200 N
587200 E	6260800 N
583900 E	6260800 N
583900 E	6253900 N
577000 E	6253900 N
577000 E	6259600 N

The area traversed Australian map grid zone 53. The traverse and tie lines were flown along AMG Eastings and Northings.

The aircraft and crew were based at Port Lincoln in South Australia for the duration of the survey.

b) SURVEY SPECIFICATIONS

Survey Distance Flown

Section 1 : 13,224.4 kilometres Section 2 : 1,732.7 kilometres TOTAL 14,957.1 kilometres

Traverse Spacing : 200 metres

Traverse Direction : AMG Grid North/South

Number of Traverse Lines : 556

Tie Spacing : 2,000 metres

Tie Direction : AMG Grid East/West

Number of Tie Lines : 37

Flying Height : 70 metres

Sample Intervals

Magnetics:0.1 second (6-8 metres)Gamma-Ray Spectrometer:1.0 second (60-80 metres)GPS:1.0 second (60-80 metres)

Radar Altimeter : 0.1 second (6-8 metres)

Barometric Pressure : 1.0 second (60-80 metres)

Temperature/Humidity : 1.0 second (60-80 metres)

A summary of the survey progress can be found in the Operations Report - Appendix B.

2. PERSONNEL

Pilots : I.Anderson

B.Chick

Operators : B.Tasker (Crew Leader)

T.Frost

Electronics Technician : P. McMullen

T. Grzelak

Aircraft Maintenance : Rossair, Adelaide

Data Processing : D.Abbott

A.Kielniacz

Project Supervision : R.Pullin

3. AIRCRAFT AND EQUIPMENT

a) SUMMARY

Aircraft

Model :

Cessna 210N

Registration

VH-JBH

Compensator

Model :

RMS Instruments Automatic Aeromagnetic Digital

Compensator

Magnetometer Sensor

Model :

Geometrics G-822A

Mounting :

Tail Stinger

Sample Interval

0.1 seconds (6-8 metres)

Sensitivity

0.001 nT

Vector Magnetometer

Model

Billingsley TFM100-IE (3-axis fluxgate)

Compensator

Model

RMS Instruments Automatic Aeromagnetic Digital

Compensator

Gamma-Ray Spectrometer

Model

•

Exploranium GR820 Self Calibrating Spectrometer

Detectors

8 All Viewing NaI (Tl activated) Crystals

Total Crystal Volume - 33.6 Litres

Sample Interval

1.0 seconds

Number of Channels:

4 ROIs (TC, K, U, Th), Cosmic and 256 Channels

Computer

Model

486 DX2/66

Acquisition Software

Programme Custom in-house developed TAG3 acquisition

software

Version 3

Aircraft Navigation

GPS, Model Novatel 951R

Update rate 0.5 seconds

Radar Altimeter

Model Bendix King KRA 10A

Sample Interval 0.1 seconds

Temperature/Humidity

Model Vaisala HMD 50Y

Sample Interval 1.0 seconds

Pressure

Model Vaisala PTB 200A

Sample Interval 1.0 seconds

Base Station Magnetometers

Model Geometrics G-856

Sample Interval 6.0 seconds

Base GPS

Model Novatel 951R

Sample Interval 1.0 seconds

b) MAGNETOMETER AND COMPENSATOR

A Geometrics G-822A Magnetometer Sensor, mounted in a stinger secured to the rear of the aircraft was used for this survey. The specifications of the Magnetometer Sensor are summarised in Appendix G.

The Magnetometer Sensor was coupled to a RMS Instruments Automatic Aeromagnetic Digital Compensator (AADC). The AADC compensates the total magnetic field data in real time for the magnetic interference caused by the aircraft manoeuvring in the earth's magnetic field and by the aircraft itself.

The correction coefficients used by the AADC during compensation, were calculated from a compensation flight conducted prior to the survey commencing. The coefficients were also calculated at any other time the aircraft underwent maintenance.

The specifications of the AADC are summarised in Appendix H.

Compensation procedures are described in Section 4.

c) GAMMA-RAY SPECTROMETER

An Exploranium GR-820 Multi-channel Gamma-Ray Spectrometer, coupled to two GPX-1024 Crystal Detectors with a total volume of 33.6 litres were used for this survey. The Crystal Detectors were mounted in two packs, side by side secured to a rack on the floor of the aircraft.

The specifications of the Gamma-Ray Spectrometer are summarised in Appendix I.

The GR-820 uses a sophisticated automatic control method to ensure crystal alignment is maintained, while stabilising on naturally occurring isotopes. The system continuously monitors each of the eight crystal signals and accumulates an individual spectra for each configured signal. The peak channel of the selected stabilisation isotope is computed when a specified number of counts have been accumulated. This peak channel is then compared to the correct peak location and the gain is subsequently adjusted.

Two hundred and fifty six channels of data between 0.3 MeV and 3.0 MeV were recorded once per second. Additionally, 4 ROIs and a cosmic channel were recorded using the following window limits:

Total Count	•	0.41 - 2.81 MeV
Potassium (K40 peak at 1.46 MeV)	:	1.37 - 1.57 MeV
Uranium (Bi214 peak at 1.76 MeV)	:	1.66 - 1.86 MeV
Thorium (T1208 peak at 2.61 MeV)	:	2.41 - 2.81 MeV
Cosmic	:	3.00 - 6.00 MeV

The calibration procedures for the Gamma-Ray Spectrometer system are described in Section 4.

d) DATA ACQUISITION SYSTEM

The TAG3 Acquisition System runs on a 486 personal computer. The data was recorded to hard disk and dumped to DC2120 data cartridge at the completion of each flight. The system was synchronised to GPS time. The data was viewed in real time, enabling the operator to confirm that quality specifications are being met. The following parameters were recorded digitally.

- (a) Time in seconds (to 0.1 seconds)
- (b) Fiducial number, incrementing by smallest data sample interval
- (c) Navigation data including GPS height
- (d) Terrain clearance (radar altimeter)
- (e) Barometric pressure
- (f) Relative humidity
- (g) Ambient temperature outside the aircraft in degrees Celsius
- (h) Uncompensated Magnetometer reading
- (i) Fluxgate x, y, z
- (i) Fluxgate Total Field
- (k) Raw Magnetometer 4th Difference
- (1) Compensated Magnetometer reading
- (m) Full 256-channel gamma-ray spectrum
- (n) Total count reading in counts per second (uncorrected)
- (o) Potassium window reading in counts per second (uncorrected)
- (p) Uranium window reading in counts per second (uncorrected)
- (q) Thorium window reading in counts per second (uncorrected)
- (r) Cosmic window reading in counts per second (uncorrected)

e) NAVIGATION

The GPS position, referencing WGS84, is read by the TAG3 acquisition system. This is the first step in the TAG3 navigation cycle. The position is then transformed to the AGD84 datum using the full 7 parameters. Conversion to AMG co-ordinates follows. The navigational errors, with reference to the planned survey line, are then calculated and displayed for the pilot and operator. This completes the cycle. Two navigation cycles are performed each second.

Real time differential correction was achieved via Fugro Surveys Omni Star System.

The Novatel 951R Global Positioning System card specifications can be found in Appendix J.

f) RADAR ALTIMETER

A Bendix King KRA-10A Radar Altimeter was used to measure the aircraft height above ground level (AGL). The Radar Altimeter System is of high resolution designed for automatic continuous operation over a wide variation of terrain, target reflectivity, weather and aircraft altitude.

The Radar Altimeter data was recorded 10 times per second with an accuracy of \pm 1 m (at 80 m AGL).

Bendix King KRA-10A Radar Altimeter specifications can be found in Appendix K.

g) TEMPERATURE AND HUMIDITY

A Vaisala HMD50Y Sensor was used to measure outside air temperature and relative humidity. The data was recorded once per second.

Vaisala HMD50Y Sensor specifications can be found in Appendix L.

h) BAROMETER

Atmospheric pressure was measured using an Vaisala PTB 200A Digital Barometer that was tapped into the aircraft static system. The barometric data was recorded once per second.

Vaisala PTB 200A Digital Barometer specifications can be found in Appendix M.

i) BASE STATION MAGNETOMETER

Diurnal variations in the earth's magnetic field were recorded using two Geometrics G856 Proton Precession Base Station Magnetometers. The Base Stations were located away from cultural influences in an area of shallow magnetic gradient. They were cycling at a 6 second sample interval at all times the aircraft was on survey.

At the completion of each days flying, the data was dumped onto an infield processing computer, where data quality and compliance with contractual specifications were checked. The data was subsequently backed up onto a data cartridge tape for shipment to the processing office.

Base Station Magnetometer specifications can be found in Appendix N. Base Station Magnetometers records can be found in Appendix E.

j) GPS BASE STATION POSITION

Final aircraft positional information was determined post flight.

An accurate GPS Base Station position was calculated by recording latitude, longitude and height information over a seven to twelve hour period and then averaging these positions.

The final GPS Base Station position was then entered into the "Ranger" software and used to calculate post flight differentially corrected aircraft positions. This procedure was conducted at the completion of each flight.

The differentially corrected flight path was then viewed to ensure it did not exceed contractual specifications.

GPS Base Station records can be found in Appendix F.

4. CALIBRATION

a) MAGNETIC COMPENSATION

The compensation sequences were flown in a region of low magnetic relief located approximately 15 kilometres north east of Port Lincoln. The aircraft's altitude was 5,500 feet (above mean sea level).

Each sequence consisted of a series of manoeuvres performed on each of the cardinal headings. The manoeuvres comprised \pm 10 degree rolls, \pm 5 degree pitches and \pm 5 degree yaws.

The coefficients used in compensating for the effects of permanent magnetism, induced magnetism, eddy currents and heading error were calculated automatically by the AADC upon completion of a sequence. The calculated coefficients were then applied to the uncompensated total field readings (collected during the sequence) in order to assess the quality of the "solution". This (now compensated) data was then statistically analysed. The resultant statistics, revealing the quality of the compensation solution, are displayed by the AADC.

A three-axis fluxgate magnetometer, mounted in the stinger, enables derivation of motion information by the AADC during a sequence.

The statistics include: standard deviation of the high-passed uncompensated (UNC), standard deviation of the high-passed compensated (CMP), improvement ratio (IR) and "vector norm of the interference set" (NRM). The IR is the result of dividing UNC by CMP.

The statistics from each solution can be found in Appendix C.

b) GAMMA-RAY SPECTROMETER CALIBRATION

At the commencement and conclusion of each day's production, a low level test line was flown and ground calibrations performed. Statistics were calculated and recorded for each of the calibration processes.

i) The Low Level Test Line

The low level test line was located along a power line orientated in a north/south direction, approximately 30 kilometres north east of Port Lincoln. The test lines were flown at survey height. The start and end points were visually definable positions captured as GPS waypoints for ease of orientation and reference purposes.

The start and end point co-ordinates were:

Start (WGS84) -34° 28' 54" S 136° 02' 02"E End (WGS84) -34° 24' 04" S 136° 02' 03" E

The test line was flown in both directions.

ii) Ground Radiometric Button Checks

Crystal stabilisation using Thorium was undertaken prior to each day's acquisition. For each ground calibration, the aircraft was parked in exactly the same position. Similarly the spectrometer button samples were positioned in exactly the same location with reference to the detectors.

The precision involved in all calibrations ensured the statistics were an accurate indication of the Gamma-Ray Spectrometer system status.

The statistics for both the low level test lines and ground radiometric button checks were recorded on a calibration log with appropriate figures transferred to various spreadsheets. These statistics were compared with those from preceding flights in order to detect any irregularities and to ensure contractual requirements were being met.

This was primarily achieved through calculating the percentage difference in statistics from the most recent calibration to statistics of the running average of all previous calibrations.

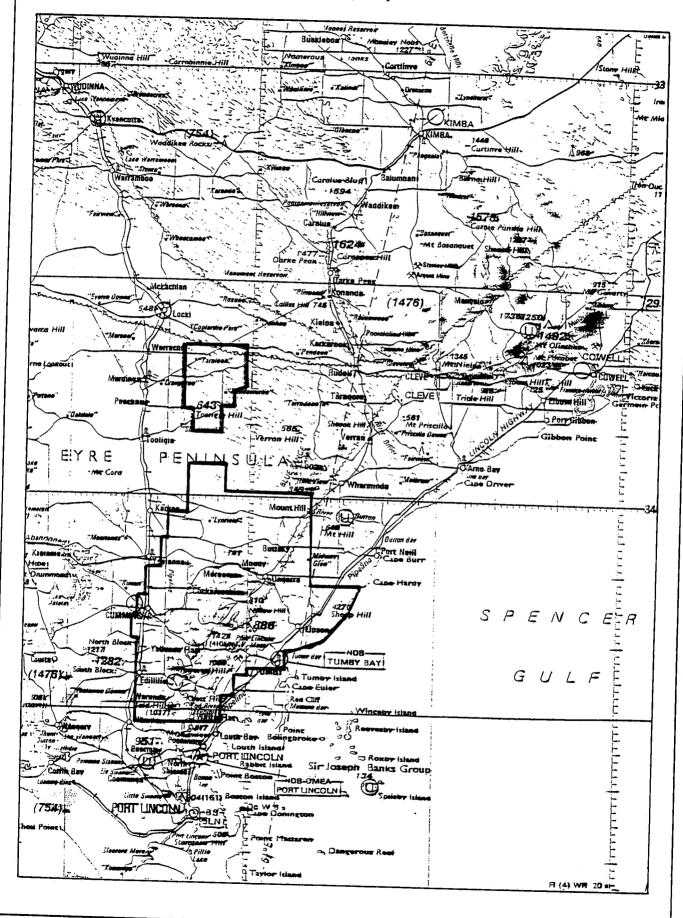
Some variation was occasionally noticeable in the Total Count and Uranium windows, due to the effects of daily Radon variations.

Copies of the Calibration Logs can be found in Appendix D.

CRA EXPLORATIO	N PTY LTD	
		PPENDIX A
		Tumby Bay

CRA EXPLORATION

Tumby Bay



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TESLA AIRBORNE GEOSCIENCE OPERATIONS REPORT CRA EXPLORATION VH- JBH JOB No. TA2247

DATE	NO.		OP	T/O	LAND	THIS	REFL	TO D.	ATE REFL	RUNNING	COMMENTS
WED 08-Nov	1	IA	ВТ	719 1140	1022	309.7 714.4	0.0	======		======	
JULIAN 312 DAY 0	====	===			! =====	1024.1	0.0	1024.1	_	1024.1	
THU 09-Nov JULIAN 313	3 3	BC BC	TF TF	613 755	642 910 1839	126.2 594.9				•	SPIKES ON RADALT BAD WEATHER (STORM) POOR VISABILITY
DAY 1						721.1	0.0	1745.2	0.0	1745.2	
FRI 10-Nov		IA BC		624 1155	1108 1645	761.7 754.7		·			RADALT SPIKES
JULIAN 314 DAY 2						1516.4	0.0	3261.6	0.0	1630.8	
SAT 11-Nov									~~~~~		NO PRODUCTION: WAITING FOR ROMS AND CARDS FOR SPECTROMETER
JULIAN 315 DAY 3						0.0	0.0	3261.6	0.0	1087.2	FOR SPECIROMETER
SUN 12-Nov											NO PRODUCTION: WAITING FOR ROMS AND CARDS FOR SPECTROMETER
JULIAN 316 DAY 4						0.0	0.0	3261.6	0.0		FOR SPECIROPELER
MON 13-Nov	7	IA	ВТ	1355	1653	229.6	Ten 300 (see 100 see 100 see 100 see			,	ORIGINAL SPECTROMETER ROMS ARRIVED AND
JULIAN 317 DAY 5	1					229.6	0.0	3491.2	0.0		INSTALLED / CARDS REPLACED 3261.6 TO BE REFLOWN
TUE 14-Nov	8 9	IA BC	BT TF	608 1134	1104	648.0 597.9	32.8				VAC PUMP FAILED ON TAKE OFF No. 2 USED COMP BOX CARRIED OUT
JULIAN 318 DAY 6	10	TA	TF	1654	2033	265.5 1511.4	32.8	5002.6	32.8		RE- PT LINCOLN EARLY DUE TO BIRD STRIKE

TESLA AIRBORNE GEOSCIENCE OPERATIONS REPORT CRA EXPLORATION VH- JBH JOB No. TA2247

DAT	re .	FLT NO.	PLT	OP	T/0	LAND	! PROD	REFL	TO D.	REFL.	RUNNING AVERAGE	COMMENTS
WED 1 JULIAN	319 7	11 12 13	BC IA TA	TF BT BT	608 1134 1654	1104 1618 2033	675.7 935.4 759.7 2370.8	49.2	! 			
THU 1 JULIAN DAY		15	IA TA	TF	1129	1616 1959	1020.7 868.2 670.5 2559.5	0.0	9932.8	82.0	1241.6	
JULIAN		18	ΙA	BT	1155	1617	951.4 968.0 483.8 2403.2	48.9 48.9	12336.0	130.9	1370.7	
SAT 1 JULIAN DAY	322 10	21				1555	827.8	53.6 53.6	14104.4	184.5		AIRCRAFT DEPT PT LINCOLN FOR PARRAFIELD FOR 100 HRLY
SUN 1 JULIAN DAY	9-Nov 323						0.0	0.0	14104.4	184.5		AIRCRAFT ARRIVED PT LINCOLN EX PARRAFIELD LATE PM NO PRODUCTION
MON 2 JULIAN DAY	324 12	22 23			603 1141	1650	928.9 1004.8 1933.7	0.0	16038.1	184.5) 	RADALT SPIKES / REFLY OF START LINES 10122 & 10123 NEEDED MORE SPEC BLOCKS BOTH FLIGHTS
TUE 2	1-Nov 325	25 26	IA	TF	1153	1742 1830	805.0 1032.2 40.6 1877.7		17915.9		1378.1	

CRA EXPLORATIO	N PTY LTD	
	AP	PENDEX C
		umby Bay

APPENDIX C

Compensation Box Statistics

Magnetometer compensation checks were flown at survey commencement. The results are shown below:

COMPENSATION 1.

Date Flown: 08.11.95

Dates Used: 08.11.95 to 13.11.95

UNC = 1.945×10^{-01} CMP = 3.684×10^{-02}

IR = 5.3 NRM = 25.4

COMPENSATION 2.

Date Flown: 14.11.95

Dates Used: 14.11.95 to 21.11.95

UNC = 2.160×10^{-01} CMP = 3.281×10^{-02}

IR = 6.6 NRM = 21.0

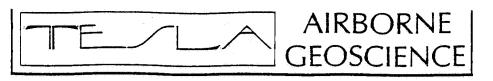
UNC: The standard deviation of the uncompensated signal in nT.

CMP: The expected standard deviation of the compensated signal in nT.

IR: The improvement ratio (UNC/CMP).

NRM: The vector norm of the interference terms set.

<u> </u>			
CRA EXPLORATION PTY	Y LTD		
	A	PPENDIX Tumby Bay	어디로 이 선생이었다. 크게 그 모
A	아마 아마 왕동아 역대수 중하였다.	_ verious y iswy	



REFLIGHT	CATTE	MATTA CO
	LALL	MALIUN

Resolution: 54

204.7² 210 6³ 2:0-3 4 210 2 207.7⁶ 210 3 7 210.2 8 210-3

210.2

Job No: 17 2247

Area: TUMBY BAY

Flight No: 001 /002

File: 52247001/52247002.

Date: 8 NOV 1995

Julian: 3/2

mples

		Counts	Per Second		Co	unts Per Secon	d Minus Backg	round	Total Com
	K Ch	UCh	Th Ch	Total Count	K Ch	U Ch	Th Ch	Total Count	% Chang
(h	491	75	152	3945					
Ū									
	080	61	45	3322					

cest Line & High Level Background

,		Counts I	Per Second		Co	Total Count			
	K Ch	U Ch	Th Ch	Total Count	K Ch	UCh	Th Ch	Total Count	% Change
cat	190	42	69	1821					
High svei								''	Щ.

DST FLIGHT CALIBRATION

st Line & High Level Background

		Counts	Per Second		Co	Total Cour			
	K Ch	U Ch	Th Ch	Total Count	K Ch	U Ch	Th Ch	Total Count	% Change
T	182	46	66	1317	- <u></u>				65559
Level						*************************************		- 1	*

amples

	Counts	Per Second		Co	Total Count			
K Ch	U Ch	Th Ch	Total Count	K Ch	U Ch	Th Ch	Total Count	% Change
447	76	147	3980					8538
433	65	97	3560					
						·		
	K Ch 447 433	4417 76	447 76 147	KCh UCh ThCh Total Count 447 76 147 3980	KCh UCh ThCh Total Count KCh	KCh UCh ThCh Total Count KCh UCh 447 76 147 3980	KCh UCh ThCh Total Count KCh UCh ThCh	KCh UCh ThCh Total Count KCh UCh ThCh Total Count

in	Resolution:									
	2		3		4					
	6		7		8					



AIKBUKNE GEOSCIENCE

7	THE	IGHT	CAT	TRR	ATT	nn
а		\mathbf{I}			α	r

Resolution: 5-5 209 9

-ain

4-1	210-1	2	7 -5	210.0	3	6.2	207.4	4	2:3	210.1
4.8	309.7	6	ऽ ञ	20.3	7	60	210.8	8	ری	209.5

Job No: 2247

Area: TEMBY BAY

File: 32247003 52247004

Date: 9/11/95

Julian: 313

amples

		Counts	Per Second		Co	Total Count			
	K Ch	U Ch	Th Ch	Total Count	K Ch	U Ch	Th Ch	Total Count	% Change
		:					1		1
Пь	497	72	151	3941					
ੁੱਧ									<u> </u>
9	489	61	98	3339	<u> </u>				

st Line & High Level Background

		Counts	Per Second		Co	Total Count			
	K Ch	U Ch	Th Ch	Total Count	K Ch	U Ch	Th Ch	Total Count	% Change
cst	188	39	69	1780					
High									%

9ST FLIGHT CALIBRATION

"est Line & High Level Background

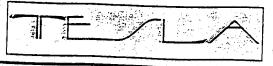
		Counts P	er Second		Co	Total Count			
	K Ch	U Ch	Th Ch	Total Count	K Ch	U Ch	Th Ch	Total Count	% Change
	187-	37	65	1720					
ievel						· · · · · · · · · · · · · · · · · · ·		: 	, , , , , , , , , , , , , , , , , , ,

amples

- (Counts Per Second				Co	round	Total Count		
atka -	K Ch	U Ch	Th Ch	Total Count	K Ch	U Ch	Th Ch	Total Count	% Change
Th	506	72	156	4001					
U					terre en		:		
Back round	491	53	45	3301					

Resolution:

ain										
	2		.3	4						
5	6		7	8						



EFLIGHT CALIBRATION

Resolution: 5-4

44 210 0 2 7.2 210.9 3 6.0 209.5 4 5 210.0 64 209.6 6 5.1 209.8 7 5.1 209.9 8 50 209.8 Job No: 2247

Area: TUMRY BAY

Flight No: DOS /COG

File: 52247005/52347006

Date: 10/11/95

Julian: = 3/4

mples

K Ch				Co	unts Per Second			
	U Ch	Th Ch	Total Count	K Ch	U Ch			Total Count
1 2015		<u> </u>					South	% Change
	72	/56	3077					
					 			
485	50	30	300					
	- 3 %	X	3-97					
	K Chi	Counts K Ch U Ch 1 2015	Counts Per Second K Ch U Ch Th Ch 1,615	Counts Per Second K Ch U Ch Th Ch Total Count 1, enc	Counts Per Second Co K Ch U Ch Th Ch Total Count K Ch 1 y CAF	Counts Per Second K Ch U Ch Th Ch Total Count K Ch U Ch 15045	Counts Per Second K Ch U Ch Th Ch Total Count K Ch U Ch Th Ch 1 2 156 3 277	Counts Per Second K Ch U Ch Th Ch Total Count Note: The second Minus Background K Ch U Ch Th Ch Total Count Note: The second Minus Background Total Count Note: The second Minus Background Note: The second Minus Backgrou

at Line & High Level Background

	K Ch	U Ch	Per Second		Co	ounts Per Second	Second Minus Background		
st ne	180	37	Th Ch	Total Count	K Ch U Ch Th Ch Total Count				Total Count % Change
gh rel						<u> </u>			

ST FLIGHT CALIBRATION

1634

t Line & High Level Background

		Counts	Per Second						6000
T	K Ch	U Ch	Th Ch	Total Count	K Ch	U Ch			Total Count
	.8.2	35	1.7	1777		<u> </u>	Th Ch	Total Count	% Change
evel				1 /)					1
**************************************			l	1				· · 	

imples

	Y O	Counts	Per Second		Counts Per Second Minus Background Total Counts					
	K Ch	K Ch U Ch Th Ch Total Count		K Ch	U Ch	Total Count	Total Count % Change			
7h	502	69	/2	3375	· · · · · · · · · · · · · · · · · · ·				9224	
, J		61	1,27	3129	·				67/200	
Back and	488	58	C _i C _i	225		:				
<u> </u>		.70		3313					. According	

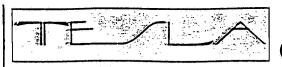
Resolution:

in										
	2	-3	4							
	6	7	8							
				_L						



े हास	LIGHT CAL	TRR ATTON			Jo	b No: 22	ر بن		<u> </u>
	MORE CAR		55	_/210.0	Аз	ea: Tim	BH BA	7	
ain		Resolution	u		F1	ight No:			*
1.3	209.9 2	3209.8 ³	5.8210	1 4 50 210		le: 522			
5-0	2096 6	5-3 210.4 7	5.8 210.	3 8 27 200					
	<u> </u>	<u> </u>			D:	ite: <u>/5/;</u>			
ample	ė.				Ju	lian: 3	: 7	 	
amhie	5	Counts P	er Second		C	ounts Per Second	d Minus Backer	ound	Total Count
	K Ch	U Ch	Th Ch	Total Count	K Ch	U Ch	Th Ch	Total Count	% Change
14,000									
h J	نه ۱	つひ	153	3805					
J									
	482	<i>(</i> -7-	G'E	32 N	 				
	k	13	57	631		1	<u> </u>		<u> </u>
ess	k	()	> :	U.7/					
st Li	ne & High Le	vel Backgrou		· · · · · · · · · · · · · · · · · ·			 		
*****	K Ch	U-Ch.	er Second Th Ch	Total Count		ounts Per Second			Total Count
					K Ch	UCh	Th Ch	Total Count	% Change
ne riigh	182	(34)	66	1606	176	1 21	7	1015	
vel									
NOTE:	m remme	T TDD A TTO	x Ť	, , , , , , , , , , , , , , , , , , ,					
IST	FLIGHT CA	LIBRATIO	N						
				三方にから.					
'rst Li	ne & High Le	vel Backgrou		·					
	V Ch		er Second	T = 10		ounts Per Second			Total Count
4	K Ch	U Ch	Th Ch	Total Count	K Ch	U Ch	Th Ch	Total Count	% Change
					: - / · · · · · · · · · · · · · · · · · ·	<u> </u>	1.		
vel			· · · · · · · · · · · · · · · · · · ·						
f.									
mple	:S								
(II)		Counts P	er Second		C	ounts Per Second	i Minus Backer	ound	Total Count
/···	K Ch	U Ch	Th Ch	Total Count	K Ch	U Ch	Th Ch	Total Count	% Change
Th	501	70	156	3932					
J	:				 ;- · ·				
Beck @ cod	490	58	98	3254	 				
أسا	<u> </u>	! <u></u>				1	1	<u> </u>	

in		Resolution:		
	2	-3	4	
I,	6	7	8	:



EFLIGHT CALIBRATION

Resolution: 5.3 CH 210.2

11/16 2 5.5 120 3 7.3 108 4 5.2 9.9 14 144 6 5.9 106 7 5.4 103 8 4.8 109. Job No: 2247

Flight No: 008/009 /010

File: 52247008 50047009

Date: 14/11/1995

Julian: 3/8

-uples

_		Counts	Per Second		Co	unts Per Second	i Minus Backg	round	Total Count
	K Ch	U Ch	Th Ch	Total Count	K Ch	U Ch	Th Ch	Total Count	% Change
h	490	68	150	3850					
Ū									
····	ひつら	56	90	3/8/					
	*		/ -			·			ш

11 12 60 609

est Line & High Level Background

		Counts P	er Second		Co	Total Count			
	K Ch	U Ch	Th Ch	Total Count	K Ch	UCh	Th Ch	Total Count	% Change
st Line	170	30	65	1626	168	22	5	977.	
High vel							<i>1</i>	**************************************	ш

ST FLIGHT CALIBRATION

it Line & High Level Background

Í		Counts F	er Second		Cou	Total Count			
	K Ch	U Ch	Th Ch	Total Count	K Ch	U Ch	Th Ch	Total Count	% Change
T	ist.	35	67	1658	175	22	14	1036	
, sevel					7				

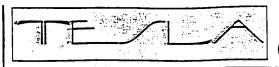
amples

		Counts	Per Second		Co	unts Per Second	i Minus Backg	round	Total Count	
	K Ch	U Ch	Th Ch	Total Count	K Ch	U Ch	Th Ch	Total Count	% Change	
Ta —	495	70	:51	3858	3					
J										
Beck	486	57	98	3236	- 1,4, 24, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1,					

13 53 622.

Resolution:

in									
	2	.3	4						
	6	7	8						



EFLIGHT	CA	TIRR	A	TTO	N
DPLANTIL I		a	Ľ3		

Resolution: 210.0 5-3

•in_

ادس	116	2	7-5	119	3	ŞΫ	1091	4	5.3	96
46	144	6	5.4	1001	7	۶٦	124	8	52	108

Job No: 2747

Area: TOMBY BAY

Flight No: 011 612 613

File: J2247011 / 52247012 / 5224701

Date: 15/11/95

Julian: 319

nples

		Counts	Per Second		Co	Total Count			
<u></u>	K Ch	U Ch	Th Ch	Total Count	K Ch	UCh	Th Ch	Total Count	% Change
h	501	フご	150	7866					
์ ป	1.05	<7	96	3744	* 1,50° 12. 31. 51				
J -	480		=,	13244			<u> </u>		1

t Line & High Level Background

	Counts	Per Second		Co	Total Count			
K Ch	U Ch	Th Ch	Total Count	K Ch	U Ch	Th Ch	Total Count	% Change
184	35	ieb	1646	171	22	15	1026	
,							***************************	
	ксь 184		Counts Per Second K Ch U Ch Th Ch 184 35 66			K Ch U Ch Th Ch Total Count K Ch U Ch	K Ch U Ch Th Ch Total Count K Ch U Ch Th Ch	K Ch U Ch Th Ch Total Count K Ch U Ch Th Ch Total Count

ST FLIGHT CALIBRATION

st Line & High Level Background

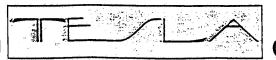
		Counts F	er Second		Co	Total Count			
<u>.</u>	K Ch	U Ch	Th Ch	Total Count	K Ch	U Ch	Th Ch	Total Count	% Change
Ţ-	185	35	67	1661	166	25	12	1011	
vel							}	. h 	

mples

		Counts	Per Second		Cor	unts Per Second	i Minus Backg	round	Total Count
	K Ch	U Ch	Th Ch	Total Count	K Ch	U Ch	Th Ch	Total Count	% Change
7h	506	£8	154	3893					
J					i de la composición del composición de la compos				
Back	487	58	09	3248.					
	19	ic	55	650			* · · · · · · · · · · · · · · · · · · ·		

Resolution:

in		 		
	2	3	4	
	6	7	8	



3	37 373	TOTAL	CAT	TOD	4 77	TA	3 . T
1	T.T.L	IGHT	CAL	TRK.	AΙ	w	ľŊ

Resolution: 5.3 /209 9

110 254 120 3 59 110 4 5.7 97 5.0 144 6 4.4 110 7 5.8 105 8 5.0 107.

Job No: 2247

Area: TUMBY BAY

Flight No: 014 (015 /610

File: J2247014/52247015/3247016

Date: 16/4/95

Julian: T 320

'amples

		Counts	Per Second		Co	unts Per Second	Minus Backg	round	Total Cour
	K Ch	U Ch	Th Ch	Total Count	K Ch	UCh	Th Ch	Total Count	% Chang
Γh	500	7/	150	3919	- Andrews - Andrews - Andrews - Andrews - An				
U		1			——————————————————————————————————————		 		•
hr .	U 173	58	99	3268					
	} r	12	55	is51					

est Line & High Level Background

		Counts 1	Per Second		Co	Total Count			
	K Ch	U Ch	Th Ch	Total Count	K Ch	U Ch	Th Ch	Total Count	% Change
, cst Line	184	37	68	1674	173	24	13	1023.	
High evel							·		

OST FLIGHT CALIBRATION

est Line & High Level Background

		Counts	Per Second		Co	Total Cour			
	K Ch	U Ch	Th Ch	Total Count	K Ch	U Ch	Th Ch	Total Count	% Chang
Tr→	189	40	67	1742	172	27	ب/	1133	.00000a
Level									

Samples

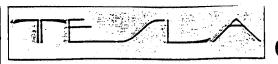
		Counts I	Per Second		Со	ound	Total Count		
	K Ch	U Ch	Th Ch	Total Count	K Ch	U Ch	Th Ch	Total Count	% Change
Th	50)	75	151	3932					65530
Ū									
Back ound	490	62	98	3323					0333

600

Resolution:

ain				
ř	2	-3	4	
e	6	7	8	

53



AIRBORNE

TEFLIGHT CALIBRATION

Resolution:

nin

1:0	121	2	7.4	125	3	ا کے	115	4	53	105
.50	152	6	52	114	7	5.9	ē	8	5.2	116

Job No: 2247

Area: TUNBY BAY

Flight No: 017/018/19

File: 72247017, J2247018 J2247019

Julian: 321

~mples

		Counts	Per Second		Co	Total Count			
<u> </u>	K Ch	U Ch	Th Ch	Total Count	K Ch	U Ch	Th Ch	Total Count	% Change
h	507	75	154	3698	· · · · · · · · · · · · · · · · · · ·				
ប៊									
	494	65	101	3373					
	7.	10	<i>K</i> 3	325					

st Line & High Level Background

4)		Counts	Per Second		Со	unts Per Second	i Minus Backg	round	Total Count
.0000	K Ch	U Ch	Th Ch	Total Count	K Ch	U Ch	Th Ch	Total Count	% Change
est me	97	44	69	1783	183	34	16	1458	
High svel									

DST FLIGHT CALIBRATION

st Line & High Level Background

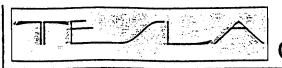
		Counts F	er Second		Со	Total Count			
	K Ch	U Ch	Th Ch	Total Count	K Ch	U Ch	Th Ch	Total Count	% Change
Tr→	1013	2/	68	1761	170	23	11	1104	
cvel					<u></u>	and the second section of the second sections	*	i de la la construita de /del> La construita de la const	

mples

535559		Counts F	er Second		Co	unts Per Second	Minus Backgr	ound	Total Count
(3)	K Ch	U Ch	Th Ch	Total Count	K Ch	U Ch	Th Ch	Total Count	% Change
					, , , , , , , , , , , , , , , , , , ,				-
Th	513	75	156	3700					
Ū			<u> </u>						
Back read	490	61	99	3287.					
	23	12	57	657.		* , i se and * * i , j ; * each			#

23 12 Resolution:

2	.3	4	
6	7	8	



LEFLIGHT CALIBRATION

Resolution: 5.5 / 210.0

12 121 279 125 3 58 115 4 54 106 13 15 6 5 113 7 5 9 129 8 5 3 114 Job No: 77.47

Area: TUMBY BAY 3.A

Flight No: 020/021

File: J2247020 / J2247021

Date: 18/11/95

Julian: 322

·mples

		Counts	Per Second		Co	Total Count			
	K Ch.	U Ch	Th Ch	Total Count	K Ch	U Ch	Th Ch	Total Count	% Change
h	25%	67	150	3839	• · · · · · · · · · · · · · · · · · · ·		:		i i
U	566	192	102	0972	<u>, ii ii</u>		<u> </u>		***************************************
	489	57	98	3209.					
_		: 0	۲, ۲	50%	·	 	*	<u> </u>	#

st Line & High Level Background

		Counts P	er Second		Con	unts Per Second	Minus Backg	round	Total Count
	K Ch	U Ch	Th Ch	Total Count	K Ch	U Ch	Th Ch	Total Count	% Change
cst Line	100	35	67	1675	183	25	15	1083	
High rvel					4		! .: • • • • • • • • • • • • • • • • • • 		<u> </u>

IST FLIGHT CALIBRATION

st Line & High Level Background

		Counts I	Per Second		Co	Total Count			
	K Ch	U Ch	Th Ch	Total Count	K Ch	U Ch	Th Ch	Total Count	% Change
Te-	145	55	68	1658	170	22	19	1058	6000
cvel									

ămples

pic	-D								
		Counts	Per Second		Co	unts Per Second	Minus Backg	round	Total Count
-	K Ch	U Ch	Th Ch	Total Count	K Ch	U Ch	Th Ch	Total Count	% Change
1.									
ηh	5CZ	7C	149	3842					
- U									
Beck rend	487	57	100	3242					

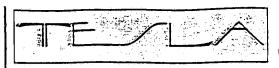
ECC.

15 /3

Resolution:

un			,	
7.47	2	-3	4	
	6	7	8	

19



r	Traff	TOT	T CAI	TODA	7774	77
Ω	للتكت	uvu		work:		JIN

Resolution:

`ain

Ī		115	2	76	118	3	5€	107	4	5:3	96	
)	4.7	145	6	5.1	107	7	55	105	8	5 Z	107	

Job No: 2247.

Area: TOMBY BAY

Flight No: <u>022</u> / 023

File: J2247027 / J2247023

Date: 20/11/95

Julian: 324

'umple:

		Counts	Per Second		Co	Total Count			
	K Ch	U Ch	Th Ch	Total Count	K Ch	U Ch	Th Ch	Total Count	% Change
Th U	502	72	151	3882					
	487	57	100	3262					

13

13

51

620

st Line & High Level Background

865628		Counts	Per Second		Cou	nts Per Second	Minus Backg	round	Total Count
	K Ch	U Ch	Th Ch	Total Count	K Ch	U Ch	Th Ch	Total Count	% Change
cat ine	185	35	67	1663	72	22	16	1043	
High evel									

OST FLIGHT CALIBRATION

est Line & High Level Background

		Counts I	Per Second		Cot	Total Count			
	K Ch	U Ch	Th Ch	Total Count	K Ch	U Ch	Th Ch	Total Count	% Change
Ta	186	36	48	16.65	173	25	-12	1037	
avel					· · · · · · · · · · · · · · · · · · ·	 	 	<u> </u>	#1

amples

		Counts F	er Second		Со	Total Count			
	K Ch	U Ch	Th Ch	Total Count	K Ch	UCh	Th Ch	Total Count	% Change
				•					
Th	566	70	151	3893	Fire - D. Carlo Cara				
ט									
Back	293	59	71.	3060					

13

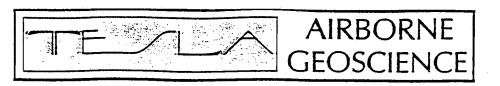
80

629

Resolution:

i 1

				
	2	3	4	
	6	7	8	



EFLIGHT	CA	TTDD	ATT	ON
CPLICATI	1.	LIDK	AII	1114

Resolution: 5.4 C+ 210.1

14.4 1/5 254 rc 36-2 106 45-2 98 37/47 65-4 107 75-5 103 85-3 107. Job No: 2247

Area: 70mBy BAY

Flight No: 024/025/026/

File: 72247024/72247025/72247020

Date: 21/11/95

Julian: 325

1ples

		Counts	Per Second		Co	unts Per Second	i Minus Backe	round	Total Count
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st Line & High Level Background

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ST FLIGHT CALIBRATION

t Line & High Level Background

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	K Ch	UCh	Th Ch	Total Count	K Ch	UCh	Th Ch	Total Count	% Change
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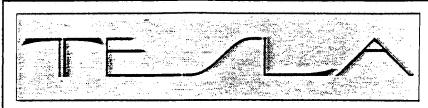
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CRA EXPLORATION PTY LTD	
	APPENDIX E
	Tumby Bay



A.C.N. 009 183 082

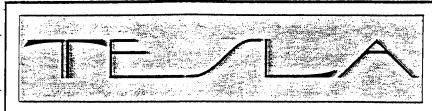
BMR - 1 (11/94)

BASE - MAGNETOMETER - RECORD

Job No./Client:	· · · · · · · · · · · · · · · · · · ·		
Area:	TUMBY BAY		
Aircraft:	NH-JBH		
Crew Leader:	TAKMSON / B. TASKER		
Operator:	B. TASKER / T. FROST		
Date:	11/11/95	Completed By:	T. AIKINSON
Julian:		Signature:	repelle-
		•	
Magnetometer	Type: <u>6856</u>		
Serial No:		·	
Magnetometer	Location: PT Lincol.	N AIRPORT	
Cycle Rate:	6 sec	da di sarang kerang saran mada di di di salah salah saran	
Sensor Height:	4 pole sections	and the second of the second o	
Area Gradient:	0.5 AT/M		
North:			
South:			
East:			
Central:			•
	***************************************	***************************************	•
Magnetometer	Type: <u> </u>		
.			
Serial No:			
Magnetometer	Location: PT LINCOL	N AIRFORT	
Cycle Rate:	6 sec		
Sensor Height:	A pole section	3615	
Area Gradient:	0.5 nt/m		
North:			
South:			
East:			•
Central:		an aka, mujuk kerjin, muju pananganyak sa kerjinga	
-			•

CDA	EVDI	AD A	TION	DTV	TTD
CKA	EAPL	UKA	IIUIY	PII.	LID

APPENDIX F <u>Tumby Bay</u>



A.C.N. 009 183 082

BGPS - 1 (11/94)

BASE - GPS - RECORD

Job No./Client: TA2247	CRA			
Area: TUMBY BAY				
Aircraft: V6 - 5BH	G	PS Unit No:		
Crew Leader: T. OTHINSON / 3. TASKET		erial No:	9	31/0360
Operator: B. TASKER / T. FROM				
Date: 4/11/95	C	ompleted By	· T.	ATKINSON
Julian:		ignature:		"yeti-
TRIG STATION	Lat:	···	Long:	
CO-ORDINATES	Lat:		Long:	·
ELLIPSOID	Height:			N.A
CALCULATED BASE STATION	Lat:		Long:	
CO-ORDINATES			Long:	135.8506418
ELLIPSOID WGS 84	Height: /3.	587,4		
THAT RECORDED.	. 0			
TIME RECORDED: 07:				
DATE RECORDED:	11/95			
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RADIO LINK REQUIREMENTS:	TUBRO DI	Julia 174K 18	ひと ジ	(ED).
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CRA EXPLO	RATION PTY LTD	
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		APPENDIX G <u>Survey Area</u>

APPENDIX G

Specifications - Geometrics G-822A Cesium Magnetometer Sensor

OPERATING PRINCIPLE

Self Oscillating Cesium Vapour Magnetometer

OPERATING RANGE

20000 nT to 95000 nT

GRADIENT TOLERANCE

40000 nT/meter

TEMPERATURE LIMITATIONS:

-35°C to 50°C

SUPPLY VOLTAGE

24 to 32V DC

OUTPUT

Continuous signals at the Larmor frequency which is proportional

to the magnetic field (proportionally constant 3.498 Hz/nT).

DIMENSIONS

Diameter - 51 mm

Length - 178 mm

WEIGHT

 $0.8 \, \mathrm{kg}$

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APPENDIX H <u>Tumby Bay</u>

<u>Tumby Bay</u>

APPENDIX H

Specifications - RMS Instruments Automatic Aeromagnetic Digital Compensator

INPUTS

one to four high sensitivity magnetometers of optical absorption

type.

INPUT FREQUENCY RANGE

70 KHz - 350 KHz - Cs sensor

140 KHz - 700 KHz - K sensor 560 KHz - 2800 Khz - He sensor 850 Hz - 4 260 Hz - Overhauser

MAGNETIC FIELD RANGE

20000 - 100000 nT (gamma)

RESOLUTION

1 pT (picotesla)

COMPENSATION PROCEDURE :

improvement ratio 10-20

typical for total field improvement ratio 20-100

typical for gradient

ACCURACY OF

COMPENSATION

0.035 nT (gamma) standard deviation for the entire aircraft flight

envelope in the bandwidth 0-1 Hz typical.

DATA OUTPUT RATE

10 Hz

SYSTEM FREQUENCY

 $0 - 0.9 \, \text{Hz}$

RESPONSE

INTERNAL SYSTEM NOISE

less than 2 pT (standard deviation in the bandwidth 0-1 Hz)

DURATION OF CALIBRATION

FLIGHT MANOEUVRES

5-8 minutes typical

MICROCOMPUTER

SBC-11/21 Plus (DEC) Front End LSI-11/73 (DEC) Main CPU

KEYBOARD

limited alphanumeric

DISPLAY

green fluorescent, 80 character self scan panel

OUTPUTS

serial data communication port: RS232C - max. rate 19.2 K

Baud

parallel output port: 16 bit with full handshaking (DRV11-J)

(optional)

parallel output port: 16 bit with full handshaking (DRV11-J)

(optional)

POWER

 28 ± 4 VDC, 5Å, 150W (for single magnetometer) 7Å, 196W

(for gradiometer system)

ENVIRONMENTAL

operating temperature: 0 to 50°C

storage temperature: -20 to 55°C

relative humidity: 0-99%, non-condensing

altitude: 0 to 6000 m (0 to 20000 ft)

PHYSICAL DATA

console dimension: 483 x 178 x 440 mm

console weight: 12.5 kg

power supply dimensions: 225 x 180 x 220 mm

power supply weight: 5.5 kg

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APPENDIX I <u>Tumby Bay</u>

APPENDIX I

Specifications - GR820 Spectrometer System

Detector Controller

- Maximum number of crystals 16. Each crystal has individual pole-zero cancellation, semi gaussian shaping and advanced base line restoration circuitry.
- Continuous, individual-crystal spectrum analysis ensures that optimum system stabilisation is achieved. Resolution is calculated by a sophisticated gaussian curve fitting algorithm to perform an accurate centroid analysis of the selected stabilisation peak.
- High energy cosmic pulses are accumulated in a separate channel.
- Accurate pile-up rejection for simultaneous pulses allows qualitative gamma-ray spectrum analysis
 almost independent of the system count rate. Special circuitry analyses for pulse pile-up and permits
 only detector signals from single events to be analysed. Simultaneous events in adjacent crystals are
 added to reduce the Compton effect.
- Residual pulse pile-up at 100000 counts/sec are less than 2%

Analog to digital converter (ADC)

- 50 MHz Wilkinson ramp ADC.
- Linearity integral less than 0.2%; -differential less than 1%
- Average system dead-time is less than 5 microsec/pulse.
- Live-time channel records the actual system live-time. This data is output with the digital data which allows post correction for system dead-time to an accuracy of 0.1%.
- Number of channels selection of 256 channels or 512 channel operation.
- Maximum number of counts/channel 65535 (16 bits).
- The lower threshold manually selectable from channel 2 to channel 50 (20-500 keV).
- The upper threshold is set to 3 MeV. All pulses above 3 MeV are accumulated in the cosmic channel as a direct measure of cosmic ray activity.
- ADC offset set from the keyboard.
- The maximum input count rate is 100000 counts/second.

System outputs

- Visual display the front panel display is a 640 x 200 electroluminescent (EL) high contrast graphics display which allows full spectrum display, system set-up and various parameter monitoring functions.
 In the spectrum display mode, the region of interest and cursor may be viewed by channel number or directly in keV.
- The internal channel number to energy level (keV) conversion table compensates for non-linearity of the detector's light output.
- The front panel has a 21 button keyboard for easy operator control.
- The system's operation is fully menu driven.

Digital outputs

- RS-232 port (1200 to 19200 baud).
- IEEE-488 bus output talk listen/talk only.
- Geometrics GR-800 output format.
- Some system functions can be controlled remotely by an external computer via the RS-232 and the IEEE-488 digital ports.

Analog output

- 4 channels of roi data can be selected for output on the analog port. The outputs have 10 bit resolution (0-10V). Scaling can be set from the keyboard (100-50 K counts/sec FSD) and output data may be raw or stripped using internally stored calibration constants.

Analog output wraps at fsd limits and is dead-time corrected.

Miscellaneous

- Regions of interest (ROI) 8 ROIs can be selected. The upper and lower thresholds can be individually set over the entire spectrum range.
- The first 4 ROIs are available for digital and analog output. The second 4 ROIs are available only for digital output on the RS-232 or the IEEE-488 ports.
- System resolution. Detector resolution is automatically computed for each (and summed crystals)
 during peak analysis and is displayed for operator monitoring when required. The summed down
 resolution is also output on the data stream.
 - System test. At power on, a full system test of all internal pcb handshaking is performed. Included in the testing is the lithium back-up battery, the system ram memory, display handshaking, the systems configuration (options installed), the selected detectors (checked via ADC analysis) and peripheral handshaking response.
- Configuration menus. The configuration menus allow the selection of the number of detectors in use, confidence levels for gain analysis, maximum crystal resolution levels for each detector (with operator warning if levels exceeded), output configurations for analog and digital data and various special display/monitoring functions.
- Maintenance. A set of special menus allows the user to test and calibrate many systems functions including system test, ADC offset, low level discriminator etc.
- Power: 28V 1.25amps.

Detectors

The crystals are housed in a specially designed hi-impact polystyrene cases using low background materials for minimum signal attenuation. Full thermal and internal shock protection allows the units to be directly mounted to the floor. A very low noise, high voltage power supply is housed in each pack so high voltage is not present in the connecting cables. A unique preamplifier with special processing for signal optimisation is used. The GPX-1024 has 4 crystals with a total volume of 16.78 litres.

- Outputs. Individual BNC connectors output each crystal's signal separately.
- Size: GPX-1024: 73 x 51 x 30 cm
- Weight: GPX-1024: 84 kg
- Power: 28V @ 0.5 A/crystal pack

• Temperature limitations

- Closed pack: storage -40°C to +60°C, operation -40°C to 60°C

- Open pack: not recommended

- Temperature gradient:

Closed pack: -40°C to +50°C (instantaneous)

Open pack: a change of 1°C/hour.

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APPENI <u>Tumby</u>	

APPENDIX J

Specifications - Novatel 951R Global Positioning System Card

FREQUENCY

L1, 1575.42 MHz

CODE TRACKED

C/A Code (SPS)

CHANNELS

: 12 Discrete Channels

TIME TO FIRST FIX

<70 seconds typical (cold start: no initial time,

almanac, or position required)

RE-ACQUISITION

3 seconds typical

COMPUTED DATA UPDATE

RATE

10 solutions per second

SINGLE CHANNEL PHASE

ACCURACY

3 mm RMS, C/No> 44 dB Hz

loop BW=15Hz

DIFFERENTIAL CHANNEL

PHASE MEASUREMENT

ACCURACY

0.75 mm RMS, 1 second smoothed, no multipath,

C/No> 44d BHz

TIME ACCURACY (RELATIVE) :

50 nanoseconds (SA off)

250 nanoseconds (SA on)

HEIGHT LIMIT

60000 ft maximum

VELOCITY LIMIT

Up to 575 ms⁻¹ maximum

OPERATING TEMPERATURE

: 0° to $+70^{\circ}$ C

SIZE

216 mm x 107 mm x 19 mm

WEIGHT

220 g

MOUNTING

installed inside an IBM-PC Compatible

CDA	EVDI	OD	ATT	3.7.7	DOT	TTD
CKA	EXPL	UK.	A I I (J/V	PIY	

APPENDIX K <u>Tumby Bay</u>

APPENDIX K

Specifications - Bendix King KRA-10A Radar Altimeter

KRA 10A Receiver/Transmitter

ALTITUDE OUTPUT RANGE

20 ft. to 2500 ft. max.

AGL - Maximum

Altitude is dependant on ground reflectivity

ACCURACY

± 5 ft. 50 ft. to 100 ft.

(with or without KI 250)

 \pm 5% 100 ft. to 500 ft.

 \pm 7% 500 ft. to 2000 ft.

POWER REQUIREMENTS

 $27.5 \text{ VDC} \pm 20\%$ @ 200 ma Max. Total for system

ALTITUDE

45000 ft. (13716 m)

TEMPERATURE

- 54°C to 71°C

COOLING

Convection

SIZE

 $7.9 \times 8.9 \times 20.3 \text{ cm}$

WEIGHT

 $0.9 \, \text{kg}$

MOUNTING

Any position

AUX. ANALOG OUTPUT

+4 my/ft.

KI250 Indicator

ALTITUDE RANGE

20 to 2500 ft. AGL

DECISION HEIGHT RANGE

20 to 2500 ft. AGL

(pilot adjustable)

Lights when descending thru DH

DH AUDIO

DH LAMP

2 sec. 1 KHz tone when descending thru DH

ALTITUDE

15000 ft. (4,572 m)

TEMPERATURE

- 15°C to 71°C

COOLING

Convection

SIZE

8.28 x 10.0 x 8.28 cm

WEIGHT

: 0.4 kg

KA 131 Antenna

BEAMWIDTH

E-Plane $40 \pm 5^{\circ}$ H-plane : 40 ± 5°

MOUNTING SURFACE ANGLE FROM HORIZON

KA 131-00 (parallel) : $\pm 6^{\circ}$ KA 131-01 (skewed) : 6° to 20°

CRA EXPLORATION PTY LTD	
	APPENDIX L <u>Tumby Bay</u>

APPENDIX L

Specifications - Vaisala HMD50Y Temperature and Humidity Sensor

Relative Humidity

OPERATING RANGE

: 0-100% RH

SENSOR

: Intercap Humidity Sensor, Part No. 15778

Temperature

OPERATING RANGE

: -10°C to 60°C

TOTAL ACCURACY AT 25°C : ± 0.3 °C

SENSOR

: PR 1000 DIN 43760B

General

OUTPUT SIGNAL

Equals 0 to 100% RH and -40°C to 60°C

0 to 10V

Load Resistance > 10k OHM

POWER SUPPLY

15 to 35 VDC

CURRENT CONSUMPTION

6mA typical

HOUSING CLASSIFICATION

IP 65

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Tumby Bay

APPENDIX N

Specifications - Geometrics G-856 Magnetometer

DISPLAYS Six digit display of magnetic field to resolution of 0.1 gamma or

time to nearest second. Additional three digit display of station,

day of year, and line number.

RESOLUTION Typically 0.1 gamma in average conditions. May degrade to

lower resolution in weak fields, noisy conditions or high gradients.

ABSOLUTE ACCURACY One gamma, limited by remnant magnetism in sensor and crystal

oscillator accuracy.

CLOCK : Julian clock with stability of five seconds per month at room

temperature and five seconds per day over the temperature range

of -20 to +50 degrees Celsius.

TUNING : Push button tuning from keyboard with current value displayed

on request. Tuning range 20 to 90 kilogammas.

GRADIENT TOLERANCE : Tolerates gradients to 5000 gammas/meter. When high gradients

truncate count internal, maintains partial reading to an accuracy

consistent with data.

CYCLE TIME : Complete field measurement in three second in normal operation.

Internal switch selection for faster cycle (1.5 seconds) at reduced

resolution or longer cycles for increased resolution.

MANUAL READ : Takes reading on command. Will store data in memory on

command.

MEMORY : Stores more than 1000 readings in survey mode, keeping track of

time, station number, line number, day and magnetic field reading. In base station operation, computes for retrieval but does not store time of recording designated by sample interval,

allowing storage of over 2500 readings.

OUTPUT Plays data out in standard RS-232 format at selectable baud

rates. Also outputs data in real time byte parallel, character serial

BCD for use with digital recorders.

INPUTS: Will accept an external sample command.

SPECIAL FUNCTIONS

An internal switch allows:

- 1) adjustment of polarisation time and count time to improve performance in marginal areas or to improve resolution or speed operation,
- 2) three count averaging,
- 3) choice of lighted displays in auto mode.

PHYSICAL

Instrument console: 18 x 27 x 9 cm (2.7 kg)

Sensor: 9 x 13 cm (1.8 kg)

Staff Section: 3 cm x 60.5 cm (0.4 kg)

ENVIRONMENTAL

Meets specifications from 1 to 40°C

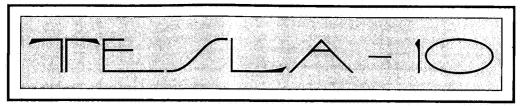
Operates satisfactorily from -20 to 50°C

Weatherproof.

POWER

Operates from 8 D-cell flashlight batteries (or 12V external power). May be operated at 18V external power to improve resolution. Power failure or replacement of batteries will not

cause loss of data stored in memory.



A.C.N. 009 039 918

PROCESSING REPORT

CONTENTS

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- 2.0 JOB SUMMARY
 - 2.1 Data Acquisition
 - 2.2 Processing Overview
- 3.0 MAGNETICS PROCESSING
- 3.1 PROCESSING SEQUENCE
 - 3.2 Final Data
- 4.0 RADIOMETRICS PROCESSING
 - 4.1 Processing Summary
 - 4.2 Background Correction Co-efficients
 - 4.3 Stripping and Height Co-efficients
 - 4.4 256 Channel Pre-processing
 - 4.5 Final Processing
- 5.0 DELIVERABLES
 - 5.1 Magnetics
 - 5.2 Radiometrics
 - 5.3 Flight Path
 - 5.4 Processing Report

1.0 INTRODUCTION

The airborne geophysical survey was initiated by CRA Exploration Pty Limited, flown by Tesla Airborne Geoscience Pty Ltd, and processed by Tesla-10 Pty Ltd. The survey was flown between November 1995 and February 1996. Processing was completed in March 1996.

Data acquisition comprised magnetics, radiometrics, temperature, humidity, barometric pressure and altitude, and radar altitude. Navigation was by GPS with final positions differentially post processed.

Two areas were flown, with the same parameters for each. The survey area adjoined the coastline at Tumby Bay, South Australia.

2.0 JOB SUMMARY

2.1 <u>Data Acquisition</u>

Survey Flown

Tesla Airborne Geoscience Pty Ltd

41 Kishorn Road

APPLECROSS WA 6153

November 1995

Job No. j2247

Acquisition System

Tesla TAG3

Aircraft - Cessna 210N

VH-JBH

Navigation - GPS differentially post processed

Survey Parameters

Flown as two areas - 70 metre mean terrain

clearance

200 metres east-west traverses 2,000 metre north-south ties

sample interval - magnetics 0.1 sec (~ 7 m)

radiometrics 1.0 sec (~70 m)

2.2 Processing Overview

Co-ordinate System

WGS84 based GPS lats, longs and heights were transformed to AGD84, with the lats and longs subsequently converted to eastings and northings

by the utm projection TMAMG zone 53.

Quality Control

Check plots verifying adherence to required specifications were made for flight path, survey boundary, aircraft ground speed and ground clearance, magnetic system noise, magnetic daily variation and aircraft altitude (GPS). Statistical analysis of all data was made. Consistency and continuity of data was verified by stacked profile

plots.

IGRF

IGRF model 1995 projected to 1995.9 and

utilising GPS altitude was removed and a base value added back to the final levelled magnetics.

3.0 MAGNETICS PROCESSING

3.1 Processing Sequence

A 0.1 second database was collated, with positions transformed to AGD84, and quality control plots produced for comparison with required specifications and flight logs. Once verified, data acquisition was declared complete.

De-spiking and/or filtering was applied to some of the data as necessary. Median and Fourier Domain wavelength filters were used. Data may have been interpolated through spikes, but a raw data channel is maintained.

System parallax (read/write delay) was corrected, the daily magnetic field variations removed, and the IGRF removed. Base levels were added back to these data to maintain an approximate mean value. This is the usual preliminary magnetics stage.

Tieline levelling (traverse to tie line adjustments) and micro-levelling applied to any remaining or residual minor errors brings the data to final levelled form (tmi). Any magnetics from cultural features, if any, remain in the data set.

3.2 Final Data

Located Data

Line number, fid number, day, time, GPS week,

GPS time, easting and northing (parallax corrected, AGD84), latitude and longitude

(parallax uncorrected, WGS84), diurnal, rawmag, compmag (compensated for aircraft presence and

altitude), levmag (final levelled tmi), radalt, gpsalt (AGD84), flux-total, flux-x, flux-y, flux-z,

grid flag.

Gridded Data

ER Mapper format channel levmag, where

gridflag = 0. For some parts of some overlapping

lines, gridflag = 1. Grid cell size is 50 x

50 metres.

A detailed header file was included with the located data, which details the survey layout and processing information.

4.0 RADIOMETRICS PROCESSING

4.1 Processing Summary

The 256 channel data was checked for spectral stability between flights, and pre-processed to obtain data for Radon gas background removal. Subsequent processing closely follows the IAEA publication "Technical Reports Series No. 323" (1991) - filtering, background removal, channel stripping, height corrections and levelling.

Test flights were flown to determine co-efficients for background removal. Pad tests were used to obtain stripping co-efficients.

4.2 Background Correction Co-efficients

Cosmic and aircraft background co-efficients were obtained from multi-level flights over the ocean. Plotting total, potassium, uranium and thorium counts against cosmic count should give straight line graphs, where the gradient gives the cosmic background correction and the cosmic axis intercept gives the aircraft background count for that channel.

Where this straight line graph varies is where Radon gas concentrates. The background was calculated using the differential absorption spectral ratio technique. This separates the Uranium count into a component due to normal ground contribution and one due to Radon gas in the atmosphere.

4.3 <u>Stripping and Height Co-efficients</u>

Stripping co-efficients were calculated from pad tests, and solutions to simultaneous equations describing the count rates as a function of the background, Potassium, Uranium and Thorium pads.

Correlation co-efficients for a nominal terrain clearance were derived from low-level test flights. The measured heights were corrected to STP, with the usual

dead-time, background and stripping corrections applied to get corrected counts. The height correction co-efficients are gradients of straight line plots of the log (ln) of count rates against corrected height.

4.4 <u>256 Channel Pre-processing</u>

256 channel spectral plots for each flight and each line are made. IAEA windows are plotted over the three main peak channel positions and compared from flight to flight, and for test lines. As Thorium count is largely unaffected by Radon gas variations, the test lines should be stable to within 5%. Similar plots are made for the daily button source tests.

Raw count rates used for final processing were extracted by summing the 256 channel data over the IAEA windows centres on the peak locations, to the nearest channel.

Radon gas correction ratios were obtained as described above, using exactly the same modified source spectral windows as used for the calibration of the ratios from the daily test flights.

4.5 <u>Final Processing</u>

A very light filter is applied to the channel data to smooth the worst of the saw-tooth statistical variation. Longer filters are applied to height, temperature, pressure and altitude.

The cosmic stripping co-efficients multiplied by the cosmic count are taken from the channel counts, as are the aircraft backgrounds. The Radon background correction for the Uranium channel is:

Airborne Radon Uranium Count = $\left(\frac{R - Rg}{Rr - Rg}\right)$ Uranium count

Where R is the low energy Uranium correlation to high energy ratio,

Rg is this ratio for a pure ground Uranium source, and

Rr the same ratio for a pure airborne Radon gas Uranium source

The Radon gas Uranium count component is removed from the Uranium count, and the contribution to the other channels calculated by applying the Radon gas stripping co-efficients. These are then removed from the respective channels, including total count.

The Potassium, Uranium and Thorium count rates are corrected for Compton scattering (stripped). The co-efficients themselves are corrected to the STP corrected height using theoretical linear corrections for the three primary stripping co-efficients.

Corrections to the terrain clearance are made using STP corrected heights and the absorption factors appropriate to the exponentially decreasing count rates with height.

The data was tie line levelled and micro-levelled. A detailed header file was included with the located data and 256 channel data, detailing the co-efficients applied.

5.0 DELIVERABLES

5.1 Magnetics

1:100,000 Black and White Contours TMI on Film Located Data (ASCII) CD ROM Gridded Data (ERM) CD ROM

5.2 Radiometrics

1:100,000 Black and White Contours Total Count on Film

1:100,000 Colour Contours Total Count on Film

1:100,000 Colour Contours Potassium on Film

1:100,000 Colour Contours Thorium on Film

1:100,000 Colour Contours Uranium on Film

Located Data (ASCII) CD ROM Located Data (ASCII) 256 Channels CD ROM Gridded Data (ERM) Total Count, Potassium, Uranium, Thorium

- 5.3 1:100,000 Flight Path Map on Film
- 5.4 Processing Report (This Document)

by Anthony Kielniacz DATA PROCESSOR

RIO TINTO EXPLORATION PTY. LIMITED ACN 000 057 125

Second Annual & Surrender Report For The Period Ending April 7, 1997 EL 2067 Moreenia, South Australia

Author: D.J. McInnes

Date:

June, 1997

Licence Holder:

Rio Tinto Exploration Pty. Limited

Submitted to:

Chief Geologist, SE District

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Abstract

Exploration Licence 2067 was granted on March 6, 1995. The licence covers 1318 square kilometres and is located approximately 70 km north of Port Lincoln. The geology across the EL from west to east comprises of the Sleaford complex adjacent to Hutchison Group. The Lincoln complex is in the eastern part of the EL and is separated from the Hutchison Group by the Kalinjala Mylonite zone. The area is regional metamorphosed to upper amphibolite-granulite.

The EL was taken to explore for ultramafic-hosted Ni within the early Proterozoic Hutchison Group similar to deposits of the Thompson Belt in Canada. Multi-element analysis of 358 -80# stream sediment samples and 47 lag samples, collected in the first year of tenure, highlighted six areas comprising of samples with elevated Ni and samples with anomalous Ni to Cr ratio.

Subsequent follow up of these anomalies by ground traversing of the catchment, further stream sediment sampling, soil sample traverses and rock chip sampling recorded no results with geochemical significance.

The conceptual target, "Thompson Belt nickel sulphide play", has been tested by the stream sediment sampling program. No significant results were recorded and ultramafics were found to comprise a small portion of the sequence. No further work is recommended on the EL.

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List Of Plans

Plan No.	Title	Scale
SAa 6351	Moreenia EL 2067, South Australia Location Plan	1:250 000
SAa 6711	Moreenia EL 2067, South Australia Follow Up Rock Chip And Stream Sediment Sample Locations	1:100 000
SAa 6613	Moreenia EL 2067, South Australia Lag Sample Locations	1:100 000
SAa 6614	Moreenia EL 2067, South Australia -80# Stream Sediment Sample Locations	1:100 000

List Of Appendix

Appendix 1 Follow Up Rock and Stream Sediment Sample Ledger and Results

1. Conclusions and Recommendations

Exploration Licence 2067 was granted on March 6, 1995. During the second year of tenure analysis of the 358, -80# stream sediment samples, collected during the first twelve months, provided six sites with elevated geochemistry. The anomalous geochemical sites were a combination of seven stream sediment samples with an elevated Ni to Cr ratio, four samples of which also had elevated nickel stream sediment samples (Ni greater then 40 ppm). Follow up work consisted of catchment traversing, further stream sediment sampling, rock chip sampling and soil sample traverses. This failed to detect any significant geochemical results and only minor amounts of ultramafic. No further work is recommended.

2. Introduction

Exploration Licence 2067 Moreenia was granted on March 6, 1995 for a period of one year. This was subsequently extended for a second term of twelve months. The lease covers an area of 1318 km² in the southern Eyre Peninsula, South Australia. This report is the second annual and relinquishment report detailing all work carried out by Rio Tinto Exploration within EL2067.

EL 2067 is located approximately 70 km north of Port Lincoln (plan SAa 6315). The licence application was made to assess the base and precious metal potential of the strongly deformed Early Proterozoic lithologies adjacent to the south eastern margin of the Gawler Block, South Australia.

In the west, the tenement covers possible granitic Archaean-Early Proterozoic rocks of the Sleaford Complex adjacent to early Proterozoic Hutchison Group graphitic metasediments, carbonates, ironstone, gneiss and minor amphibolite. The Kalinjala Mylonite zone is to the east, with the dominantly granitic rocks of the Lincoln Complex in the eastern part of the Tenement. Numerous mafic dykes and minor ultramafic rocks occur in the area. The area is regional metamorphosed to upper amphibolite-granulite facies. Deformation and intrusive igneous activity in the area is associated with the Archaean-Early Proterozoic Sleafordian Orogeny, Early Proterozoic Kimbjan Orogeny and possibly younger events. Ferruginous laterite is well developed in the east of the tenement and extensive sand covers much of the western part.

3. Review of Previous work

3.1 Prior to Current Tenement

A review of the previous exploration was undertaken by Tim Moody. From this it was suggested that the area had not been systematically explored for Ni, PGE and Au mineralisation. A stream sediment sampling was proposed to explore for ultramafic hosted Ni similar to the Thompson belt nickel sulphide deposits.

Previously minor amounts of exploration had been conducted focussing on Cu, Pb, Zn and diamonds. To date no significant mineralisation has been identified, however small copper, graphite and iron occurrences are known to exist within EL 2048.

3.2 During Current Tenement

A total of 47 ferruginous lag samples, 358 -80# stream sediment samples were collected during the first year of tenure. Several areas displayed elevated Cu, Ni, Pt, Pd, Co, Cr geochemistry. An airborne magnetic and radiometric survey was completed over the entire tenement.

4. Exploration Completed in 12 Month Period Ending

CRAE proprietary and open file Magnetic and Radiometric data for the Port Lincoln 1:250k mapsheet were levelled and merged. The processing of these data was undertaken by Pitt Research Pty. Ltd. Products produced include 1:250k TMI, 1VD and Radiometric hardcopy and CD (0300068) with digital located data, various grid and image formats.

Multi-element geochemical analysis of the 358 -80# stream sediment samples and 47 lag samples identified six areas of elevated geochemistry that were selected for follow up (plan SAa 6711). Lag sample locations and -80# stream sediment sample locations are included (plans SAa 6613 and SAa 6614, respectively).

Follow up involved ground traversing, further stream sediment sampling and rock chip sampling of catchments upstream from where the elevated geochemical anomalies were recorded. Thirty two rock chip samples, six -80# stream sediment samples and 77 soil samples were collected during the follow up. No significantly anomalous geochemical values were recorded in the follow up samples. Results are in included in Appendix 1.

5. Rehabilitation

As exploration comprised of predominantly stream sediment, soil and rock chip sampling little disturbance was made to the ground. Rehabilitation of the sample sites was undertaken immediately. Existing fence lines and tracks were used to access areas and where this was not possible the site was entered by foot.

6. References

Moody, T.C. &

Annual Report For The Period Ending March 5, 1996 for Exploration Licence 2067 Moreenia, South Australia.

Barlow, M.G. 1996

CRAE Report No. 21936.

7. Location

Lincoln

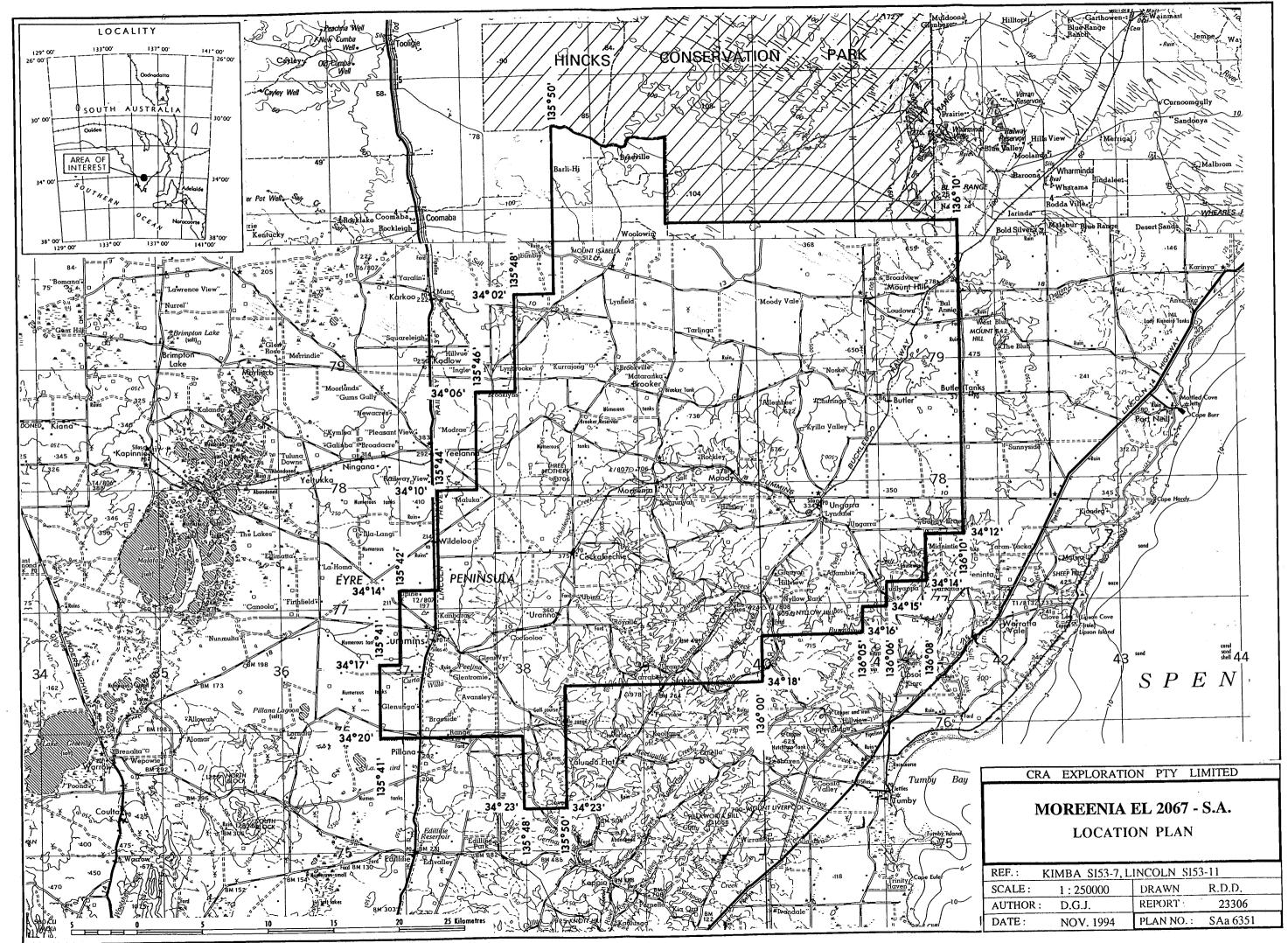
SI53-11

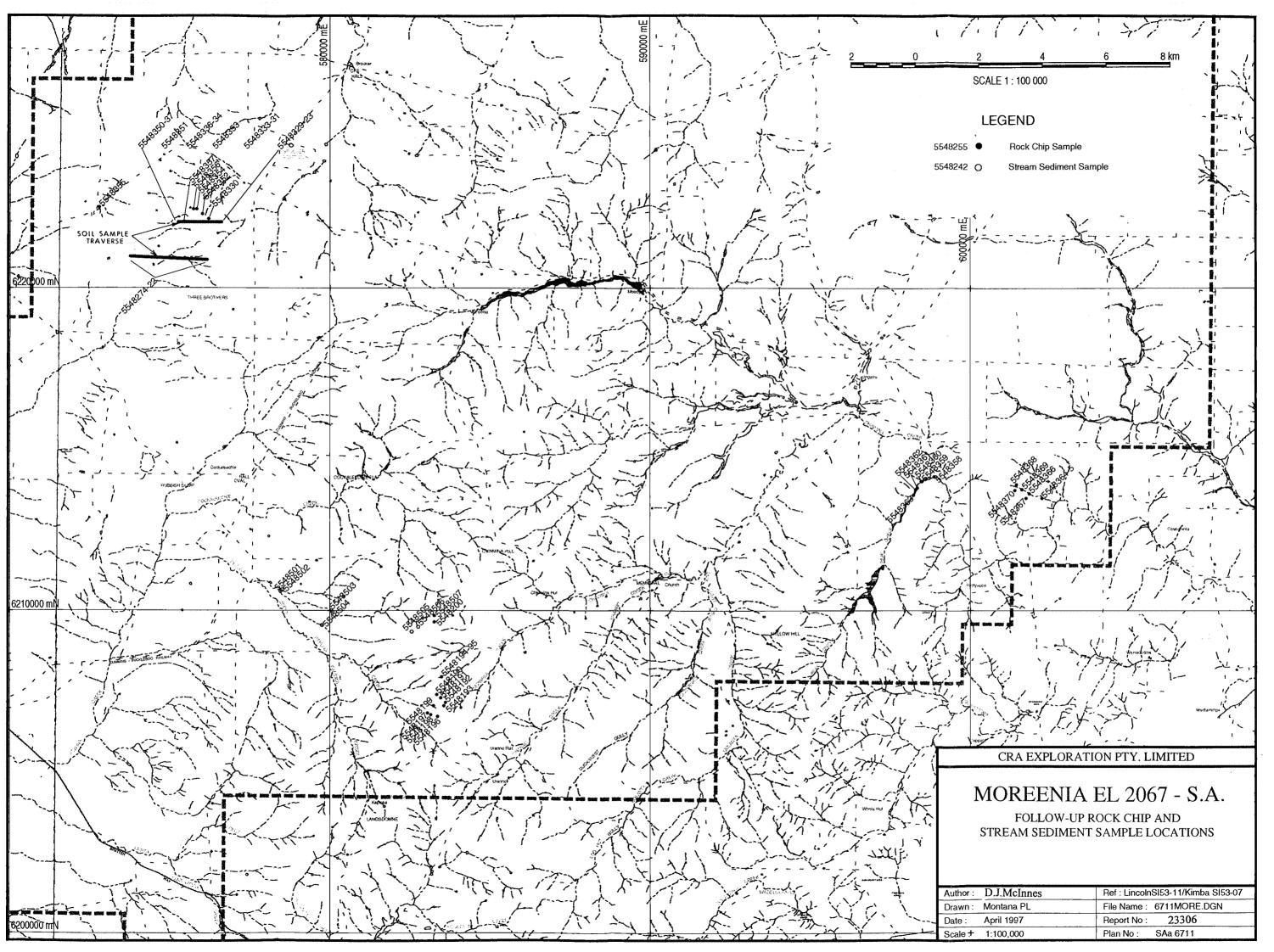
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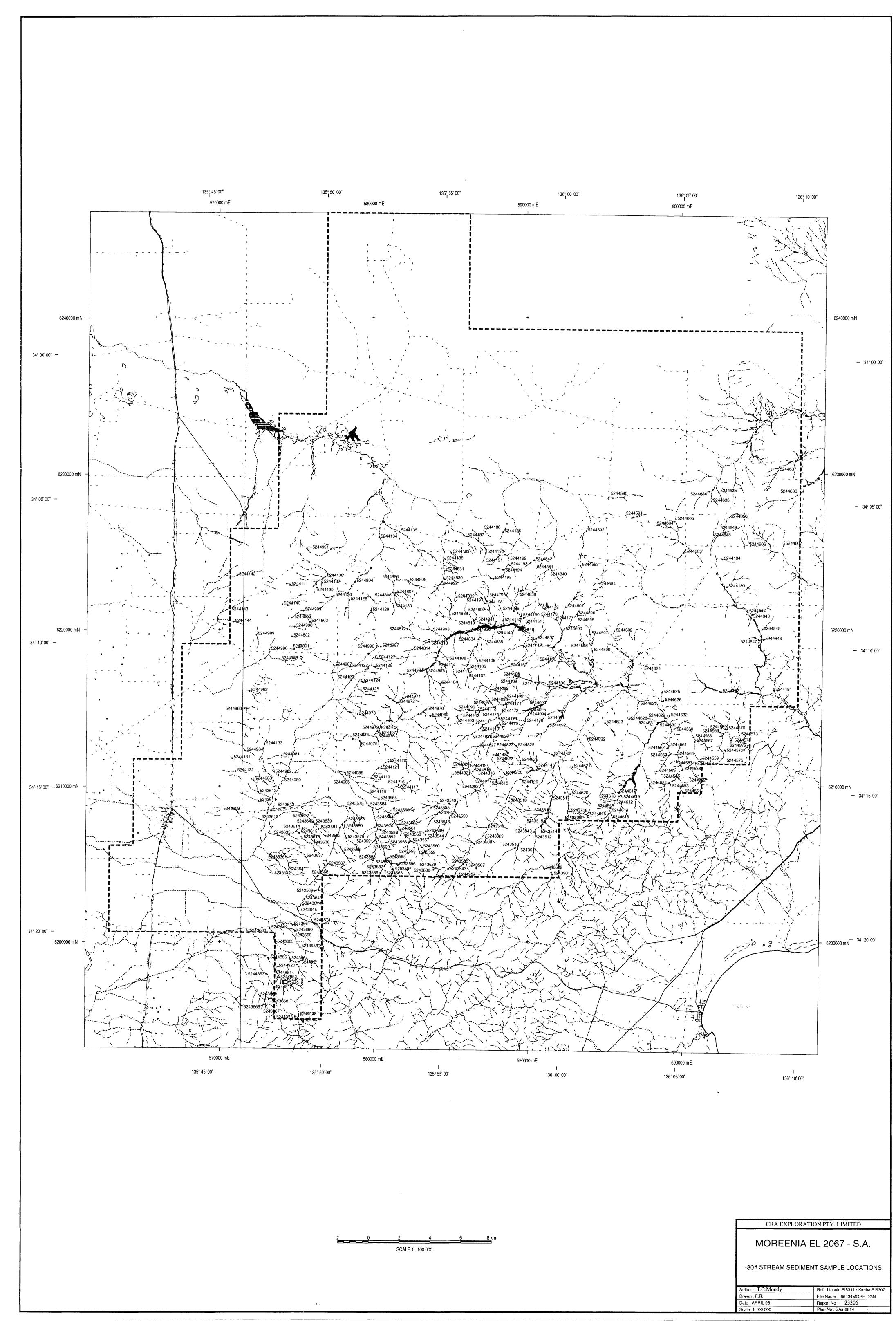
8. Keywords

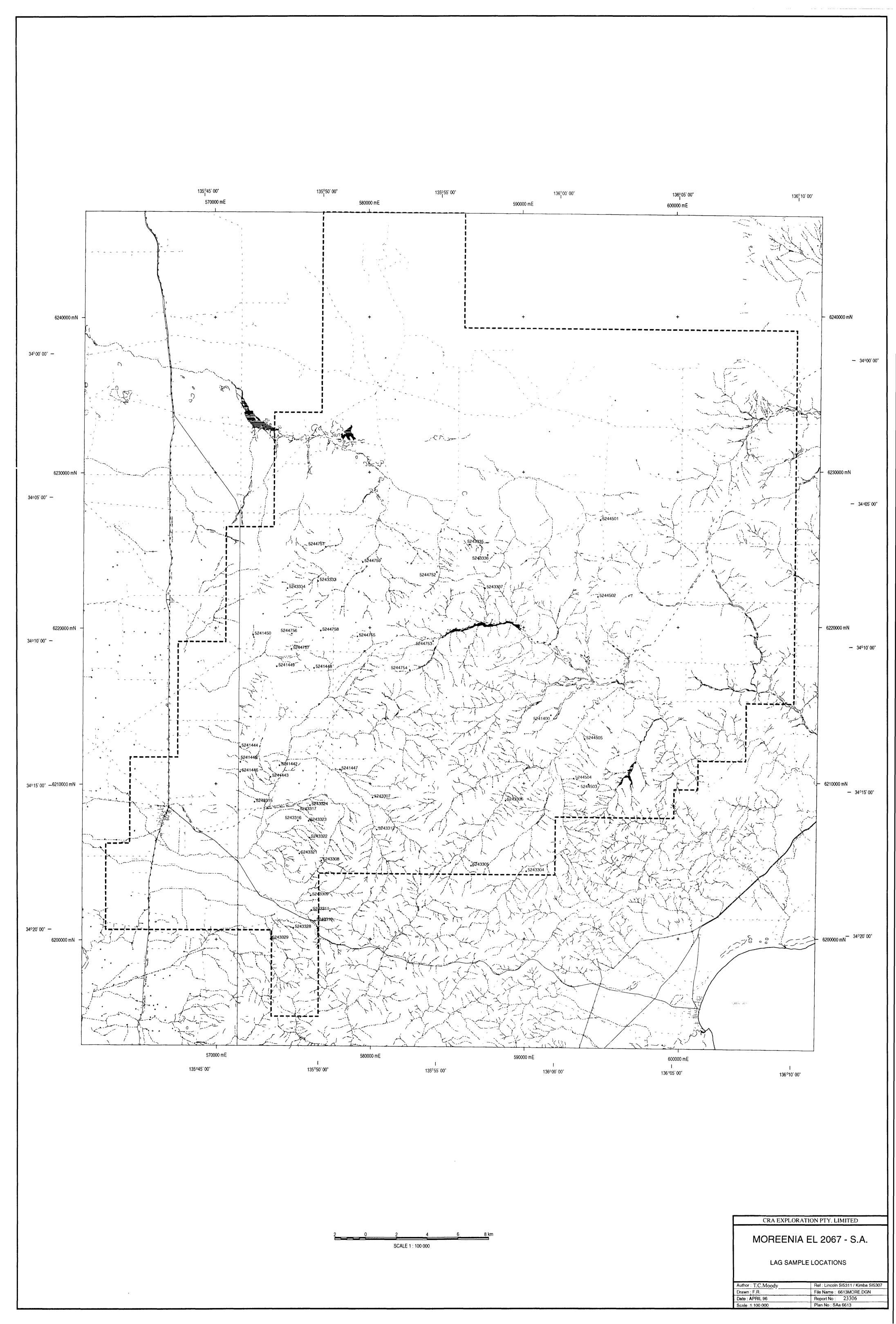
Copper, Nickel, Gold, -80# stream sediment, -2mm BLEG, Lag, Rock Sampling, Airborne Magnetics, Airborne Radiometrics, Archaean, Proterozoic, Hutchinson Group, Lincoln Group, Sleaford Complex, Gawler Craton, Kalinjala Mylonite Zone

DPO#	Lab	Lab Location	DPO Date	Office	Geologist	Tenement Name	Tenement No.	Sample Type	No. of Samples	250,000 Sheet
54322	Amdel	ADL	02/05/96		TCM	Moreenia	EL2067	-80#ss	126	Lincoln
54323	Analabs	ADL	02/05/96		ТСМ	Moreenia	EL2067	-10mm+2mm lag	5	Lincoln
81598	Amdel	ADL	22/01/96		TCM	Moreenia	EL2067	-80#ss	232	Lincoln
81595	Analabs	ADL	22/12/95		ТСМ	Moreenia	EL2067	-10mm+2mm lag	40	Lincoln
57758	Amdel	ADL	19/02/97		AMR	Moreenia	EL2067	rock	32	Lincoln
57758	Amdel	ADL	19/02/97		AMR	Moreenia	EL2067	sl	77	Lincoln
57759	Amdel	ADL	19/02/97		AMR	Moreenia	EL2067	-80#ss	6	Lincoln









Appendix 1

Follow Up Rock and Stream Sediment Sample Ledger and Results

Area	Datum	Sample Number	Sample Type	Sample Depth	AMG East	AMG North	Zone	M ap 250K	Geologist	Date	MESA LITH	Field ID	Texture	Alt/Min	Colour	Comments
Moreenia	AGD66	5548190	RKCHIP		583325	6207400	53	SI 53 11	A. Radojkovic	15/02/97		Clt	Fe	Су	MRBW	Lateritic capping on bleached clay altered (pallid zone) schist.
Moreenia	AGD66	5548191	RKCHIP		583450	6207300	53	SI 53 11	A. Radojkovic	15/02/97		CsfClt	Ма	Go	DPBR	Strongly pitted.
Moreenia	AGD66	5548193	RKCHIP		583550	6207050	53	SI 53 11	A. Radojkovic	15/02/97		Clt Csf	VuBn		DPB	Sandy gritty texture, mottled when cracked open.(Copse of black boys developed)
Moreenia	AGD66	5548194	RKCHIP		583475	6207950	53	SI 53 11	A. Radojkovic	15/02/97		Ovq	Ма	Qz		Qtz-mica vein. Massive muscovite fish developed adjacent to qtz.
Moreenia	AGD66	5548195	RKCHIP		583475	6207950	53	SI 53 11	A. Radojkovic	15/02/97		Ccy	ВІ	Qz		Pallid on contact with qtz-mica vein, very soft & talc like. Minor reddish staining.
Moreenia	AGD66	5548196	RKCHIP		583350	6206725	53	SI 53 11	A. Radojkovic	15/02/97		CsfMsc	We		LBW	With oxidised layer parallel ferrug. veining. Striking 630 degrees m.
Moreenia	AGD66	5548197	RKCHIP		583040	6206825	53	SI 53 11	A. Radojkovic	15/02/97		MgsMsc	WeBn	Go	MR	Lateritised crust on surface. Striking 100 degrees m.
Moreenia	AGD66	5548199	RKCHIP		583225	6207050	53	SI 53 11	A. Radojkovic	15/02/97		lgr	MaWe	Qz	LB	Med. grained F/spar-Qtz granitoid, unfoliated. Outcrop common over large area.
Moreenia		5548351	RKCHIP		575850	6222050	53	SI 53 11	D. McInnes	15/02/97		Scg	Fe			Fe conglomerate. Fe/Si nodules in a saprolite matrix.
Moreenia		5548353	RKCHIP		576200	6222150	53	SI 53 11	D. McInnes	15/02/97		Csf				Taken fron topographic high.
Moreenia	AGD66	5548355	RKCHIP		572775	6222500	53	SI 53 11	D. McInnes	15/02/97		lm	Fe	Qz		Qtz, amphibole, biotite & f/spar.
Moreenia		5548356	RKCHIP		575725	6222450	53	SI 53 11	D. McInnes	15/02/97		Ma			- 1	
Moreenia	AGD66	5548357	RKCHIP		575425	6222075	53	SI 53 11	D. McInnes	15/02/97		Csf				North-South strike.
Moreenia	AGD66	5548507	RKCHIP		583250	6209850	53	SI 53 11	A. Radojkovic	16/02/97		Mgn	Bn	BiQz	,	Thinly banded qtz-F/spar-Bi gneiss.
Moreenia	AGD66	5548192	RKFLOAT		583600	6207150	53	SI 53 11	A. Radojkovic	15/02/97		CltOqvObx	Fe	QzCyGo		
Moreenia		5548198	RKFLOAT		583140	6206775	53	SI 53 11	A. Radojkovic	15/02/97		Mq	Ma	Qz	G	Fine grained qtz (metamorphosed).
Moreenia	AGD66	5548352	RKFLOAT		576000	6222300	53	SI 53 11	D. McInnes	15/02/97		Ma	Bn	Qz	11.00	Variable amounts of amphibole and f/spar.
Moreenia	AGD66	5548354	RKFLOAT		575825	6222450	53	SI 53 11	D. McInnes	15/02/97		Ma	Sc	BiQz		Amphibole, qtz, minor f/spar & biotite.
Moreenia	AGD66	5548200	RKGRAB		583250	6209650	53	SI 53 11	A. Radojkovic	16/02/97		Mgn	We	QzBiMt	VВ	Strongly micaceous qtz-F/spar-Bi gneiss + Mt. Highly magnetic.
Moreenia	AGD66	5548274		25 cm	573750	6220975	53	SI 53 11	D. McInnes	15/02/97	-					Red/Brown clay. No o/c. Saprolite float.
Moreenia	AGD66	5548275		25 cm	573800	6220972.917	53	SI 53 11	D. McInnes	15/02/97						Red/brown. Saprolite float. No o/c.
Moreenia	AGD66	5548276	Soil	20 cm	573850	6220970.833	53	SI 53 11	D. McInnes	15/02/97						Red brown (clayey). Saprolite float. No o/c.
Moreenia	AGD66	5548277	Soil	15 cm	573900	6220968.75	53	SI 53 11	D. McInnes	15/02/97						Orange clay. No o/c. Laterite, Fe stone float.
Moreenia	AGD66	5548278	Soil	20 cm	573950	6220966.667	53	SI 53 11	D. McInnes	15/02/97						Orange brown clay. No o/c, no float.
Moreenia	AGD66	5548279	Soil	25 cm	574000	6220964.583	53	SI 53 11	D. McInnes	15/02/97						Dark brown/orange (clayey). No o/c, no float.
Moreenia	AGD66	5548280	Soil	25 cm	574050	6220962.5	53	SI 53 11	D. McInnes	15/02/97						Dark brown/orange (clayey). No o/c, no float. Edge of valley, thicker cover.
Moreenia	AGD66	5548281	Soil	20-25 cm	574100	6220960.417	53	SI 53 11	D. McInnes	15/02/97						Red/brown clay. No float, no o/c.
Moreenia	AGD66	5548282	Soil	20-25 cm	574150	6220958.333	53	SI 53 11	D. McInnes	15/02/97						Yellow/Orange/Brown sandy clay. No float, no o/c. 75 mm cover.
Moreenia	AGD66	5548283	Soil	20 cm	574200	6220956.25	53	SI 53 11	D. McInnes	15/02/97						Grey/brown clay. No o/c or float.
Moreenia	AGD66	5548284	Soil	15 cm	574250	6220954.167	53	SI 53 11	D. McInnes	15/02/97						Red/brown clay. No float or o/c. Very thin cover.

Area	Datum	Sample Number	Sample Type	Sample Depth	AMG East	AMG North	Zone	Map 250K	Geologist	Date	MESA LITH	Field ID	Texture	Alt/Min	Colour	Comments
Moreenia	AGD66	5548285	Soil	15-20 cm	574300	6220952.083	53	SI 53 11	D. McInnes	15/02/97						Grey/brown clay. No o/c or float.
Moreenia	AGD66	5548286	Soil	15 cm	574350	6220950	53	SI 53 11	D. McInnes	15/02/97						Red brown clay. No o/c or float.
Moreenia	AGD66	5548287	Soil	20 cm	574400	6220947.917	53	SI 53 11	D. McInnes	15/02/97						Red brown clay, dark nodules. No o/c or float.
Moreenia	AGD66	5548288	Soil	20 cm	574450	6220945.833	53	SI 53 11	D. McInnes	15/02/97						Yellow orange clay. No o/c or float.
Moreenia	AGD66	5548289	Soil	10-15 cm	574500	6220943.75	53	SI 53 11	D. McInnes	15/02/97		*		1117		Consolidated clay. Orange/yellow.
Moreenia	AGD66	5548290	Soil	15-20 cm	574550	6220941.667	53	SI 53 11	D. McInnes	15/02/97						Orange-red clay. No o/c or float.
Moreenia	AGD66	5548291	Soil	10-15cm	574600	6220939.583	53	SI 53 11	D. McInnes	15/02/97						Red/brown clay. No o/c or float.
Moreenia	AGD66	5548292	Soil	10-15 cm	574650	6220937.5	53	SI 53 11	D. McInnes	15/02/97						Brown-Red clay. No o/c or float.
Moreenia	AGD66	5548293	Soil	10-15cm	574700	6220935.417	53	SI 53 11	D. McInnes	15/02/97						Red-Brown clay. No o/c or float.
Moreenia	AGD66	5548294	Soil	10-15 cm	574750	6220933.333	53	SI 53 11	D. McInnes	15/02/97						Orange brown clay. Nil o/c, Nil float.
Moreenia	AGD66	5548295	Soil	10 cm	574800	6220931.25	53	SI 53 11	D. McInnes	15/02/97			1			Dark brown to Red. No o/c or float.
Moreenia	AGD66	5548296	Soil	10-15 cm	574850	6220929.167	53	SI 53 11	D. McInnes	15/02/97						Red brown clay.
Moreenia	AGD66	5548297	Soil	35 cm	574900	6220927.083	53	SI 53 11	D. McInnes	15/02/97						Cream colour fine sand with abundant pebbles. No o/c or float.
Moreenia	AGD66	5548298	Soil	25 cm	574950	6220925	53	SI 53 11	D. McInnes	15/02/97						Cream colour, fine sand. No o/c or float.
Moreenia	AGD66	5548299	Soil	15 cm	575000	6220922.917	53	SI 53 11	D. McInnes	15/02/97						Red-brown sandy clay. No float, or o/c.
Moreenia	AGD66	5548300	Soil	10 cm	575050	6220920.833	53	SI 53 11	D. McInnes	15/02/97						Brown-Red clay. No o/c or float.
Moreenia	AGD66	5548301	Soil	10 cm	575100	6220918.75	53	SI 53 11	D. McInnes	15/02/97						Red brown clay. No o/c no float.
Moreenia	AGD66	5548302	Soil	5-10 cm	575150	6220916.667	53	SI 53 11	D. McInnes	15/02/97						Red brown clayey soil. No o/c no float.
Moreenia	AGD66	5548303	Soil	10-15 cm	575200	6220914.583	53	SI 53 11	D. McInnes	15/02/97						Red brown clayey soil. No o/c no float.
Moreenia	AGD66	5548304	Soil	15 cm	575250	6220912.5	53	SI 53 11	D. McInnes	15/02/97						Orange-red / light brown clay. No o/c no float.
Moreenia	AGD66	5548305	Soil	10-15 cm	575300	6220910.417	53	SI 53 11	D. McInnes	15/02/97						Orange red brown clay. No o/c no float.
Moreenia	AGD66	5548306	Soil		575350	6220908.333	53	SI 53 11	D. McInnes	15/02/97			2.00			Yellow light brown sandy soil. No o/c no float.
Moreenia	AGD66	5548307	Soil	10-15 cm	575400	6220906.25	53	SI 53 11	D. McInnes	15/02/97						Orangey red clay. No o/c no float.
Moreenia	AGD66	5548308	Soil	15-20 cm	575450	6220904.167	53	SI 53 11	D. McInnes	15/02/97						Red brown clay. No o/c no float.
Moreenia	AGD66	5548309	Soil	10-15 cm	575500	6220902.083	53	SI 53 11	D. McInnes	15/02/97						Red brown clay. No o/c no float.
Moreenia	AGD66	5548310	Soil	5 cm	575550	6220900	53	SI 53 11	D. McInnes	15/02/97						Red brown clay. No o/c no float.
Moreenia	AGD66	5548311	Soil	10-15 cm	575600	6220897.917	53	SI 53 11	D. McInnes	15/02/97						Orange red brown clay. No o/c no float.
Moreenia	AGD66	5548312	Soil	10 cm	575650	6220895.833	53	SI 53 11	D. McInnes	15/02/97						Red brown clay. No o/c no float.
Moreenia	AGD66	5548313	Soil	10-15 cm	575700	6220893.75	53	SI 53 11	D. McInnes	15/02/97						Red brown clay. No o/c no float.
Moreenia	AGD66	5548314	Soil	15-20 cm	575750	6220891.667	53	SI 53 11	D. McInnes	15/02/97						Orange red brown sandy clay. No o/c no float.
Moreenia	AGD66	5548315	Soil	10-15 cm	575800	6220889.583	53	SI 53 11	D. McInnes	15/02/97						Orange brown sandy clay. No o/c. Note: higher % of iron stone lag.
Moreenia	AGD66	5548316	Soil	10-15 cm	575850	6220887.5	53	SI 53 11	D. McInnes	15/02/97						Orange brown clay. No o/c, lag float.
Moreenia	AGD66	5548317	Soil	20-25 cm	575900	6220885.417	53	SI 53 11	D. McInnes	15/02/97						Red brown clay. Surface lag. No o/c.
Moreenia	AGD66	5548318	Soil	10-20 cm	575950	6220883.333	53	SI 53 11	D. McInnes	15/02/97						Red brown. No o/c, surface lag.
Moreenia	AGD66	5548319	Soil	10-15 cm	576000	6220881.25	53	SI 53 11	D. McInnes	15/02/97						Orange brown clay. No o/c no float.
Moreenia	AGD66	554832U	Soil	10-15 cm	576050	6220879.167	53	SI 53 11	D. McInnes	15/02/97						Orange brown clay. No o/c no float.
Moreenia	AGD66	5548321	Soil		576100	6220877.083	53	SI 53 11	D. McInnes	15/02/97						Orange brown clay. No o/c, laterite float present.
Moreenia	AGD66	5548322	Soil	10-20 cm	576150	6220875	53	SI 53 11	D. McInnes	15/02/97						Red brown clay. Lateritic, iron stone float. No o/c.

Area	Datum	Sample Number	Sample Type	Sample Depth	AMG East	AMG North	Zone	Map 250K	Geologist	Date	MESA LITH	Field ID	Texture	Alt/Min	Colour	Comments
Moreenia	AGD66	5548323	Soil	15-20 cm	576600	6222050	53	SI 53 11	D. McInnes	15/02/97						Orange brown clay. No o/c no float.
Moreenia	AGD66	5548324	Soil		576550	6222050	53	SI 53 11	D. McInnes	15/02/97						Orange brown clay. No o/c no float.
Moreenia	AGD66	5548325	Soil	10-15 cm	576500	6222050	53	SI 53 11	D. McInnes	15/02/97						Orange/Red brown clay. No o/c. Lag float.
Moreenia	AGD66	5548326	Soil	15 cm	576450	6222050	53	SI 53 11	D. McInnes	15/02/97						Red brown clay. Ironstone float.
Moreenia	AGD66	5548327	Soil	30-35 cm	576400	6222050	53	SI 53 11	D. McInnes	15/02/97						Light brown, leeched. No o/c. Float: saprolite & iron stone.
Moreenia	AGD66	5548328	Soil	15-20 cm	576350	6222050	53	SI 53 11	D. McInnes	15/02/97						Light brown clay. No o/c. Saprolite float.
Moreenia	AGD66	5548329	Soil		576300	6222050	53	SI 53 11	D. McInnes	15/02/97						Saprolite rich iron stained clay. No o/c.
Moreenia	AGD66	5548330	Soil	20 cm	576250	6222050	53	SI 53 11	D. McInnes	15/02/97						Red brown clayey soil.
Moreenia	AGD66	5548331	Soil	20 cm	576200	6222050	53	SI 53 11	D. McInnes	15/02/97						Light brown silty clay. No o/c no float.
Moreenia	AGD66	5548332	Soil	15-20 cm	576150	6222050	53	SI 53 11	D. McInnes	15/02/97					-	Orange-brown sandy clay. Saprolite float abundant. No o/c.
Moreenia	AGD66	5548333	Soil		576100	6222050	53	SI 53 11	D. McInnes	15/02/97						Red brown clay. Saprolite float. No o/c.
Moreenia	AGD66	5548334	Soil	15 cm	576050	6222050	53	SI 53 11	D. McInnes	15/02/97						Light brown, silty clayey weathered saprolite. No o/c.
Moreenia	AGD66	5548335	Soil	20 cm	576000	6222050	53	SI 53 11	D. McInnes	15/02/97						Orange brown clay. Iron stone float. No o/c.
Moreenia	AGD66	5548336	Soil	20 cm	575950	6222050	53	SI 53 11	D. McInnes	15/02/97						Red brown clayey soil. No o/c no float.
Moreenia	AGD66	5548337	Soil	20 cm	575900	6222050	53	SI 53 11	D. McInnes	15/02/97						Orange-Red brown silty day soil. Iron stone float. No o/c.
Moreenia	AGD66	5548338	Soil	10-15 cm	575850	6222050	53	SI 53 11	D. McInnes	15/02/97					_	Red brown sandy-silty clay. No o/c no float.
Moreenia	AGD66	5548339	Soil	10-15 cm	575800	6222050	53	SI 53 11	D. McInnes	15/02/97						Dark red brown clay. No o/c no float.
Moreenia	AGD66	5548340	Soil	10-15 cm	575750	6222050	53	SI 53 11	D. McInnes	15/02/97						Dark brown silty clay. No o/c no float.
Moreenia	AGD66	5548341	Soil	10-15 cm	575700	6222050	53	SI 53 11	D. McInnes	15/02/97						Dark red-brown clay. No o/c no float.
Moreenia	AGD66	5548342	Soil	25 cm	575650	6222050	53	SI 53 11	D. McInnes	15/02/97						Dark red-brown clayey silty soil. No o/c no float.
Moreenia	AGD66	5548343	Soil	10 cm	575600	6222050	53	SI 53 11	D. McInnes	15/02/97						Light brown/orange clayey silt. No o/c no float.
Moreenia	AGD66	5548344	Soil	10 cm	575550	6222050	53	SI 53 11	D. McInnes	15/02/97						Red brown clayey soil. Iron stone, laterite float. Nil o/c.
Moreenia	AGD66	5548345	Soil	15 cm	575500	6222050	53	SI 53 11	D. McInnes	15/02/97						Red brown clayey soil. Iron stone, laterite float. Nil o/c.
Moreenia	AGD66	5548346	Soil		575450	6222050	53	SI 53 11	D. McInnes	15/02/97						Orangey brown.
Moreenia	AGD66	5548347	Soil	15 cm	575400	6222050	53	SI 53 11	D. McInnes	15/02/97						Orangey brown clay. Nil o/c. Ironstone, laterite float.
Moreenia	AGD66	5548348	Soil	10-15 cm	575350	6222050	53	SI 53 11	D. McInnes	15/02/97						Light brown sandy material with abundant ironstone nodules (well weathered). No o/c. Fe stone float.
Moreenia	AGD66	5548349	Soil	15-20 cm	575300	6222050	53	SI 53 11	D. McInnes	15/02/97						Red brown clay. Fe stone flaot. No o/c.
Moreenia	AGD66	5548350	Soil	10-15 cm	575250	6222050	53	SI 53 11	D. McInnes	15/02/97		2000 00 - 200				Red-dark brown clay. Abundant Fe stone nodules (& float around the surface). No o/c.

Mag Sus (x10-3)	DPO	Sample Number	Au	Au Dp1	Ag	Al	As	Ва	Ві	Ca	Cd	Се	Со	Cr	Cu	Fe	ĸ	Mg	Mn	Мо	Na	Nb	Ni	P	Pb	Sb	Sr	Ti	v	Y	Zn
8.15	57758	5548190	-1		-1	87800	-3	115	-5	500	-5	20	-2	29	1000	51700	1750	850	10	-3	1200	30	6	95	15	10	17	3850	32	2	13
0.44	57758	5548191	-1	2	1	92700	32	70	-5	420	-5	-10	-2	185	37	232000	11500	800	400	-3	370	30	6	65	50	10	9	14800	500	-2	54
0.24	57758	5548193	-1		2	63100	6	60	-5	650	-5	70	-2	50	10	232000	600	470	25	-3	260	25	4	290	75	-5	30	3500	71	3	8
0.3-0.02	57758	5548194	-1		-1	43300	-3	-5	-5	75	-5	-10	-2	110	32	11000	18800	650	120	-3	1300	140	5	25	-5	-5	3	290	-2	-2	15
0.06	57758	5548195	-1		-1	162000	6	125	-5	115	-5	700	-2	-2	10	6550	360	145	-5	-3	1600	-5	6	900	290	60	74	60	-2	2	11
0.15	57758	5548196	-1		-1	72600	-3	105	-5	140	-5	80	-2	110	16	69700	2950	700	25	-3	4200	25	5	360	35	-5	40	2650	62	4	8
0.07	57758	5548197	-1		-1	73200	4	95	-5	340	-5	65	-2	48	13	103000	3750	1400	30	-3	1850	30	4	135	40	-5	11	4250	73	9	17
0.06	57758	5548199	-1		-1	68000	-3	240	-5	1250	-5	20	-2	40	6	8250	25000	175	15	-3	14400	15	4	115	85	-5	65	340	3	5	7
	57758	5548351	-1		2	137000	16	100	-5	32800	-5	15	-2	150	5	306000	470	900	25	4	600	45	10	430	20	35	51	6950	240	-2	10
	57758	5548353	-1		-1	92800	8	120	-5	900	-5	115	-2	74	32	226000	2850	800	35	-3	500	25	12	360	75	5	41	3800	79	4	22
	57758	5548355	-1		-1	68000	4	220	-5	8050	-5	80	12	220	11	111000	12400	13000	2750	-3	9450	20	28	500	15	-5	72	3350	59	38	76
0.2	57758	5548356	-1		-1	76700	-3	900	-5	6300	-5	120	9	80	2	43400	20800	8750	1400	-3	15100	20	15	700	45	5	195	3450	44	20	71
	57758	5548357	-1		1	95100	6	95	-5	650	-5	15	-2	87	95	314000	850	550	70	-3	430	15	19	290	25	5	21	1450	49	2	51
1-10	57758	5548507	-1		-1	70000	-3	650	-5	10900	-5	130	8	74	5	39900	21800	6900	490	-3	26000	30	8	650	35	-5	110	4450	22	27	175
0.01	57758	5548192	-1		-1	11900	-3	-5	-5	190	-5	-10	-2	230	120	41000	210	105	25	4	90	-5	6	35	10	-5	2	200	24	3	6
	57758	5548198	-1		-1	1850	-3	70	-5	105	-5	25	-2	110	11	5350	1100	45	25	4	85	-5	5	20	-5	-5	5	90	3	-2	3
	57758	5548352	-1		-1	75600	4	190	-5	12500	-5	85	15	200	9	103000	8250	14200	2600	-3	13000	20	31	800	10	-5	115	4200	71	30	71
	57758	5548354	-1		-1	79800	-3	900	-5	5300	-5	90	15	140	3	60300	21300	12700	850	-3	11900	20	34	480	35	5	150	4650	84	18	92
10-30	57758	5548200	-1		-1	70200	-3	800	-5	12200	-5	150	7	89	8	43700	23100	2300	550	-3	20500	25	11	490	30	5	120	4300	23	22	67
10	57758	5548274	-1	-1	-1	63400	10	115	-5	9700	-5	30	7	76	8	71600	7750	3700	95	-3	900	15	20	220	25	-5	50	4250	155	10	25
13.5	57758	5548275	-1		-1	63500	14	125	-5	6900	-5	40	7	79	10	103000	7100	3250	105	-3	800	15	22	220	35	-5	44	4650	210	13	23
. 8	57758	5548276	-1	e e	-1	52800	10	130	-5	35500	-5	40	7	90	8	63200	7700	4050	130	-3	750	10	20	290	25	-5	88	3950	135	12	21
7.5	57758	5548277	-1		-1	73100	14	95	-5	1550	-5	40	8	115	6	82700	5050	1550	65	-3	650	15	23	200	25	5	24	4950	170	14	20
13	57758	5548278	-1		-1	49000	22	85	-5	1200	-5	35	6	99	4	108000	3750	900	55	-3	550	15	20	130	30	-5	20	3950	220	11	14
4.4	57758	5548279	-1		-1	57600	6	145	-5	3800	-5	45	6	94	8	48600	7800	2350	155	-3	1300	15	19	380	20	-5	45	4850	98	12	21
5	57758	5548280	-1		-1	51400	6	155	-5	4050	-5	55	6	61	8	51400	8450	2550	220	-3	1650	15	17	200	20	-5	53	4750	97	12	24
3.1	57758	5548281	-1		-1	75000	6	110	-5	2200	-5	50	9	99	8	58000	10000	4850	90	-3	2250	15	22	170	25	5	48	4350	105	11	32
9.2	57758	5548282	-1		-1	37200	6	145	-5	1000	-5	25	3	67	5	51300	8150	1150	60	-3	1400	10	10	135	20	-5	30	3300	88	6	17
5.8	57758	5548283	-1		-1	34700	6	160	-5	1800	-5	30	3	83	5	51900	8850	1100	70	-3	1600	15	10	125	20	-5	37	3450	89	7	16
5.2	57758	5548284	-1		-1	51900	6	120	-5	2000	-5	35	5	85	6	55000	8950	3100	75	-3	2100	10	17	220	25	-5	46	3150	94	9	22

Mag Sus (x10-3)	DPO	Sample Number	Au	Au Dp1	Ag	Al	As	Ва	Bi	Ca	Cd	Се	Со	Cr	Cu	Fe	ĸ	Mg	Mn	Мо	Na	Nb	Ni	Р	Pb	Sb	Sr	Ti	V	Y	Zn
5.5	57758	5548285	-1		-1	46900	6	125	-5	3500	-5	35	5	110	5	53200	9150	2850	95	-3	1150	10	16	140	25	-5	65	3350	92	10	19
5.7	57758	5548286	-1		-1	61600	8	120		2000	-5	45	6	115	6	72300	8900	3600	75	-3	1750	15		<u> </u>	30	-5		3950		11	24
6.1	57758	5548287	-1		-1	47500	8	115	-5	3700	-5	40	5	105	6	58700	8250	2650	80	-3	1050	15		-	25	-5	-	3300	100	9	20
5.9	57758	5548288	-1		-1	40600	4	130	-5	3000	-5	35	4	71	7	51800	7800	2000	60	-3	1300	15			25	-5		3300	92	7	17
1.5	57758	5548289	-1	-1	-1	60500	6	110	-5	2150	-5	50	7	52	5	44100	9650	4350	60	-3	1550	15	_	105	20	-5		3850		11	24
9.8	57758	5548290	2		-1	54000	10	125	-5	2450	-5	45	5	90	5	94400	8550	2950	75	-3	1100	15	19	145	35	-5	43	3600	160	11	22
1.2	57758	5548291	1		-1	66200	4	115	-5	2950	-5	55	8	57	6	46200	11000	5150	75	-3	1250	15	21	140	25	-5	57	3950	80	13	27
2.5	57758	5548292	-1		-1	39100	-3	120	-5	2000	-5	35	4	92	5	32500	8400	2750	55	-3	1100	10	13	100	20	-5	42	3000	58	9	19
3	57758	5548293	4		-1	57300	6	115	-5	7350	-5	40	8	63	6	50500	10200	4900	75	-3	1050	15	20	140	25	-5	64	3550	86	14	27
3.7	57758	5548294	-1		-1	59500	4	200	-5	1900	-5	50	5	87	10	38400	11200	2450	170	-3	2300	20	16	185	20	-5	43	5200	70	9	26
3.8	57758	5548295	-1		-1	65700	6	180	-5	2000	-5	50	6	110	10	61000	11500	2750	115	-3	2200	15	18	210	25	-5	43	3950	99	10	38
4.8	57758	5548296	1		1	68600	6	130	-5	1950	-5	40	6	91	6	62300	10200	3450	70	-3	1850	15	18	125	20	-5	40	3750	105	10	22
9.4	57758	5548297	5		-1	24000	8	160	-5	800	-5	25	-2	145	4	61400	8050	440	55	-3	1500	10	9	105	25	-5	27	2350	93	5	11
14.2	57758	5548298	-1		-1	47800	14	130	-5	1200	-5	40	4	140	7	115000	6400	900	85	-3	1000	20	15	125	35	-5	26	4550	180	8	18
9.3	57758	5548299	-1		-1	41700	10	125	-5	1050	-5	30	3	100	6	85000	6000	950	65	-3	1200	15	13	125	25	-5	27	4050	140	7	16
6	57758	5548300	2		-1	47900	8	105	-5	2150	-5	20	4	94	5	62200	5800	1800	55	-3	850	15	14	120	20	-5	26	3550	105	6	18
8.7	57758	5548301	-1		-1	84300	14	110	-5	4750	-5	25	8	125	7	111000	7450	4550	80	-3	700	15	25	135	25	10	39	4600	185	10	25
3.7	57758	5548302	4		-1	53100	8	95	-5	1900	-5	25	5	95	5	61900	6300	3050	55	-3	1350	15	15	120	15	-5	33	3700	110	9	18
8.7	57758	5548303	4		-1	53800	8	95	-5	1950	-5	20	4	93	5	73900	5350	1950	60	-3	800	15	14	120	20	-5	26	3850	130	6	17
5.2	57758	5548304	-1		-1	44900	10	105	-5	1800	-5	25	3	125	5	88500	5450	2150	95	-3	1150	15	15	130	25	-5	35	3350	140	9	16
4	57758	5548305	1		-1	57400	6	95	-5	2000	-5	30	6	98	5	62600	8000	3650	90	-3	1400	15	18	120	20	-5	46	3650	100	10	23
1.5	57758	5548306	-1		-1	41000	4	95	-5	171000	-5	35	8	34	7	26000	3550	9550	75	-3	750	-5	12	90	10	-5	370	2300	51	9	15
10	57758	5548307	1	,	-1	54300	10	120	-5	1800	-5	45	4	96	6	109000	7300	2600	105	-3	1600	15	19	135	30	-5	40	4200	165	11	20
6.2		5548308	3		-1	60700	6	165	- 1	4500	-5	50	6	91	8	67300	9800	3450	85	-3	1450	15	18	180	25	-5	49	3650	100	12	24
7.6	57758	5548309	1		-1	52000	4	175	- 1	2000	-5	35	4	95	6	61600	10600	3000	85	-3	1950	10	16	120	25	-5	46	3450	94	10	21
9.3	57758	5548310	4		-1	45200	6	200	-5	1650	-5	40	3	120	6	72000	10000	2050	105	-3	2350	10	13	165	25	-5	46	2900	100	10	18
1.7	57758	5548311	-1		-1	52100	-3	260	-5	2000	-5	65	4	100	12	30100	12700	2000	100	-3	3250	15		240	30	-5	43	2800	52	8	23
2.6		5548312	-1		-1	56100	-3	270	-5	1350	-5	40	_3	140	9	32100	14400	1600	95	-3	3450	15	11	220	30	-5	45	3400	56	6	24
4.1	57758	5548313	3		-1	49200	4	250	-5	1350	-5	50	3	130	10	41900	15900	1800	115	-3	3350	10	11	210	35	-5	40	2600	69	7	21
5.6	57758	5548314	-1	1	-1	56300	8	150	-5	950	-5	35	4	135	6	57100	11200	1000	55	-3	1650	15	15	160	25	-5	29	3650	105	7	16
6.6	57758	5548315	. 4	3	-1	86400	14	85	-5	950	-5	30	7	150	5	96200	5400	1250	50	-3	750	20	26	155	20	10	25	5400	170	11	17
2.8	57758	5548316	-1		-1	72400	10	65	-5	800	-5	20	5	110	5	63700	3850	1150	40	-3	600	20	19	120	15	-5	20	4700	120	8	15
3.5	57758	5548317	2		-1	65600	10	.70	-5	950	-5	15	4	105	4	77300	3500	1400	40	-3	500	15	17	95	15	-5	21	4150	140	7	14
3.7	57758	5548318	-1		-1	85700	8	70	-5	3050	-5	20	5	65	6	66500	5550	3100	55	-3	-10	15	22	115	10	-5	30	4100	120	6	22
2.2	57758	5548319	-1		-1	93200	10	90	-5	4450	-5	45	9	80	7	87000	6950	4950	80	-3	-10	15	25	135	20	5	42	4100	150	12	27
10.3	57758	5548320	1		-1	76400	20	120	-5	2650	-5	30	-2	130	7	180000	3950	1850	65	-3	-10	20	15	200	45	-5	29	3600	280	8	27
1.1	57758	5548321	-1		-1	139000	8	75	-5	2050	-5	35	7	60	6	71400	4250	2550	45	-3	-10	25	26	130	15	30	30	5900	115	7	23
1.35	57758	5548322	-1		-1	107000	-3	120	-5	2950	-5	80	6	52	7	62500	6550	6000	85	-3	300	15	15	190	65	15	76	3500	75	6	20

Mag Sus (x10-3)	DPO	Sample Number	Au	Au Dp1	Ag	Al	As	Ва	Ві	Ca	Cd	Се	Co	Cr	Cu	Fe	ĸ	Mg	Mn	Мо	Na	Nb	Ni	P	Pb	Sb	Sr	Ti	v	Υ	Zn
15	57758	5548323	1		-1	56900	6	85	-5	1600	-5	35	3	73	7	106000	5000	2750	100	-3	650	20	14	145	20	-5	41	3800	120	8	21
20	57758	5548324	1		1	55100	10	85		2100	-5	25	-2	110	. 8	204000	4000	1900	135	-3	65	20	18	185	30	-5	46	3500	210	8	19
7	57758	5548325	-1		-1	88300	6	90	\vdash	3900	-5	25	5	56	8	91400	6450	4350	100	-3	15	20	18		10	-5	65	3900	98	8	26
1.1	57758	5548326	-1		1	83600	-3	40	-5	750	-5	-10	-2	63	11	198000	1450	600	85	-3	-10	25	11	155	10	-5	14	4300	86	3	15
1.2	57758	5548327	1		-1	48500	8	105	-5	143000	-5	30	3	31	16	39200	2250	10100	65	-3	-10	-5	9	130	-5	-5	600	1700	30	2	13
2.1	57758	5548328	-1		-1	99600	6	110	-5	46800	-5	40	4	52	22	74200	5600	6600	160	-3	-10	20	13	195	10	10	190	3350	61	5	25
0.8	57758	5548329	1		-1	86400	4	95	-5	55600	-5	40	3	73	16	55100	2900	4500	105	-3	-10	15	10	190	10	5	165	3150	59	4	16
0.85	57758	5548330	-1		-1	102000	-3	95	-5	5400	-5	35	3	68	6	38600	5600	5200	70	-3	-10	15	11	110	10	15	46	3700	58	4	19
0.9	57758	5548331	-1		-1	76400	12	175	-5	142000	-5	40	6	52	9	29000	6500	10500	80	-3	230	5	14	140	15	5	550	2700	47	6	28
2	57758	5548332	-1		-1	69900	14	160	-5	143000	-5	40	5	45	6	69200	2800	7200	70	-3	-10	5	12	90	10	-5	410	2200	110	4	12
5.7	57758	5548333	-1		-1	91300	4	115	-5	7900	-5	75	4	72	8	70200	6000	4300	80	-3	115	20	15	230	25	10	69	3900	105	7	21
1.3	57758	5548334	-1	-1	-1	96100	10	180	-5	114000	-5	15	4	83	6	81000	2400	7000	55	-3	110	15	15	140	-5	10	390	3400	150	3	14
13	57758	5548335	-1		2	76300	20	80	-5	3200	-5	25	-2	250	8	268000	2650	1800	110	-3	-10	25	18	170	30	-5	32	4250	360	7	14
17	57758	5548336	1		1	64800	14	65	-5	2000	-5	30	-2	180	7	196000	3450	1700	90	-3	30	25	16	160	25	-5	35	4550	260	5	14
30.8	57758	5548337	-1	The state of the s	1	52000	8	100	-5	1450	-5	25	-2	165	5	188000	3950	950	125	-3	30	30	12	190	15	-5	37	4800	195	5	17
35	57758	5548338	-1		1	80800	-3	230	-5	2900	-5	45	-2	210	10	257000	9050	2250	185	-3	1100	35	16	290	25	-5	92	6250	210	7	21
5	57758	5548339	1		-1	83600	4	115	-5	2000	-5	75	2	96	13	80100	6400	3000	220	-3	-10	20	13	250	20	5	56	3650	95	7	20
5	57758	5548340	1		-1	67300	-3	320	-5	4050	-5	85	3	110	12	58400	12600	4400	800	-3	2100	15	16	280	25	-5	105	3150	59	10	28
4	57758	5548341	-1	-1	-1	69200	-3	280	-5	3650	-5	75	4	68	12	59300	13300	4500	600	3	2700	15	17	260	25	-5	89	3450	67	10	30
10	57758	5548342	-1		-1	49300	4	380	-5	2550	-5	90	4	100	12	56000	15600	2950	500	-3	2850	15	16	250	25	-5	97	2800	54	9	30
9.5	57758	5548343	-1		-1	58200	4	165	-5	1900	-5	75	-2	130	13	74100	5700	1900	145	-3	90	20	13	220	35	-5	50	4050	110	7	27
2.4	57758	5548344	-1		-1	92900	4	90	-5	4900	-5	45	4	65	10	48900	7300	4250	80	-3	35	20	15	170	25	10	51	4250	89	7	23
1	57758	5548345	1		-1	121000	6	55	-5	900	-5	40	5	66	11	137000	2200	900	35	-3	-10	20	16	145	50	25	23	4400	94	5	16
2.6	57758	5548346	-1		-1	96100	12	65	-5	1050	-5	40	5	97	5	70300	3600	950	45	-3	-10	20	21	110	25	10	23	5000	130	8	19
9.46	57758	5548347	1		-1	75100	12	110	-5	2150	-5	45	-2	120	9	143000	5250	1900	230	-3	260	20	18	175	45	-5	45	4350	210	8	23
6.5	57758	5548348	-1		1	85000	30	45	-5	1200	-5	25	3	220	5	214000	1650	600	35	4	-10	20	19	120	40	-5	15	4000	360	5	17
12.5	57758	5548349	2		1	71800	16	80	-5	2200	-5	35	-2	195	8	209000	2950	1350	110	-3	-10	20	18	185	40	-5	24	3850	310	7	18
16.8	57758	5548350	-1		1	82200	18	125	-5	3550	-5	60	5	165	9	197000	7500	4450	125	-3	1400	25	26	200	50	-5	68	5000	330	13	31