ZEEHAN EL 28/1988

ANNUAL REPORT
FOR THE PERIOD ENDING DECEMBER 2012

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Submitted To:	Exploration Manager - Australia
Copies To:	Tasmanian Regional Exploration Office Library Mineral Resources Tasmania, Hobart MMG – Melbourne Group office
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Rosebery Report No:	ZH04

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1. SUMMARY

EL28/1988 Zeehan is a prospective lease held by MMG Australia for the purpose of Nickel sulphide exploration potential. During the reporting period assay results were received for drill hole TRL001, there were no significant results.

2. INTRODUCTION

EL28/1988 Zeehan is 13 km^2 and is located west and south of the Avebury Nickel Mine (Figure 1). The EL is highly prospective for Avebury style nickel sulphide mineralisation. The Avebury deposits are hosted in serpentinised dunite and strongly metasomatised, tremolite-diopside ultramafic skarn intruded into Mid Cambrian basaltic volcaniclastics. Much of the ultramafic is not outcropping so to generate drill targets, heavy reliance is placed on geophysical techniques. High resolution aeromagnetics is a key early exploration tool as the altered ultramafics have a strong magnetic signature due to high concentrations of contained magnetite. Electromagnetic techniques are a key targeting tool in conventional nickel sulphide exploration and will be employed over the Avebury and surrounding tenements. Down hole electromagnetic surveys are also thought to have the potential to significantly enhance exploration success.

MMG take a holistic approach to exploration within the Zeehan to Trial Harbour areas due to the main targets being analogues of the Avebury system. MMG has assembled a highly prospective portfolio of tenements within the area. In line with this approach, exploration expenditure over the surrounding tenements of EL28/1988, EL22/1997 and EL37/2003 have been granted amalgamation to Avebury Mine exploration and resource expenditures.

MMG have been granted an expenditure moratorium until the 30th June 2013 while the Avebury sale is finalised.

3. LAND TENURE

EL28/1988 was initially 13 km^2 and covered the current Avebury and Avebury East Mining leases, with 3M/2003 excised in 2003 and 6M/2007 excised with the delineation of the East Avebury Resource. Only the western portion of the EL remains coincident with the Trial Harbour township, and covers an area of 6 km^2 (Figure 2).

The eastern two thirds of the lease is State Forest with the remaining western third lying within the Mount Heemskirk Regional Reserve (Crown Land). These boundaries also define the West Coast Planning Scheme 1999 zones, with the western two thirds being classed as Natural Resources and the eastern third falling under Environment Protection. Around the township of Trial Harbour itself, there is Public Reserve and Private Freehold land. A small area within the Southeast corner of the lease is classed as Informal Reserve (on State Forest or Forestry Tasmania managed land).

The Southeast Corner of the lease lies within the Macquarie Harbour Graben, Little Henty River Raised Last Interglacial Beaches, and Western Tasmanian Blanket Bog Geo conservation Sites. The North eastern corner and the Northern boundary of the lease also lie within Western Tasmanian Blanket Bog sites.

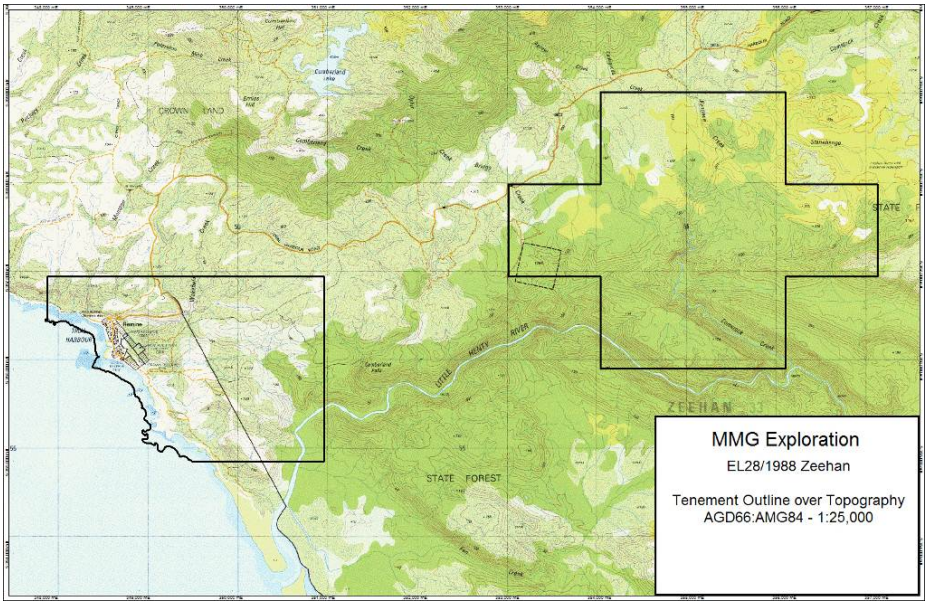


Figure 1: Location of EL28/1988 Zeehan (western portion is current)

4. GEOLOGY

The Avebury deposits are hosted in serpentinised Cambrian dunite or strongly metasomatised, tremolite-diopside ultramafic skarn obducted onto Mid Cambrian basaltic volcaniclastics. The ultramafic rocks demonstrably extend onto the surrounding EL's including EL 28/1988. EL 28/1988 is therefore considered highly prospective for Avebury style nickel sulphide mineralisation.

Variable metasomatism of the serpentinised host ultramafics, thought to have occurred during intrusion of the Heemskirk Granite, has formed two distinctly different mineral assemblages, each of which may host ore grade nickel sulphide mineralisation:

- **Essentially unmetasomatised serpentinised ultramafic:** a fine grained black rock composed predominantly of antigorite with minor disseminated chromite, magnetite and sulphides

- **Metasomatised serpentinised ultramafics:** pale grey or green, coarsely crystalline tremolite/actinolite and diopside with minor magnetite, chromite and sulphides.

Sulphide mineralisation in both serpentinised ultramafic and ultramafic skarn generally consists of pentlandite and pyrrhotite and is associated with magnetite in the form of crystalline intergrowths and veins within massive granular magnetite-chromite. Pentlandite occurs as coarse disseminations and stringer veins associated with secondary magnetite. Sulphide contents are generally low with mineralised ultramafic comprising between 0.5 to 3% sulphides although massive pentlandite does occur in some drill intersections.

Nickel sulphide mineralization is largely concentrated within the ultramafic immediately adjacent to its margins with nickel grades diminishing toward the interior of the intrusions. Some internal zones of nickel sulphide mineralisation are present.

The serpentinised ultramafics have a strong magnetic signature due to their high concentrations of magnetite, and their presence can be interpreted from magnetic images. The nickel sulphide mineralisation too has a strong magnetic signature due to the pentlandite-pyrrhotite-magnetite relationship. High resolution aeromagnetics is a key early exploration tool.

The Oonah Formation and the Crimson Creek Formation are the most prevalent sedimentary rocks, and the Devonian Granite and McIvor Hill Complex are the most prevalent igneous rocks within EL28/1988 (Figure 2).

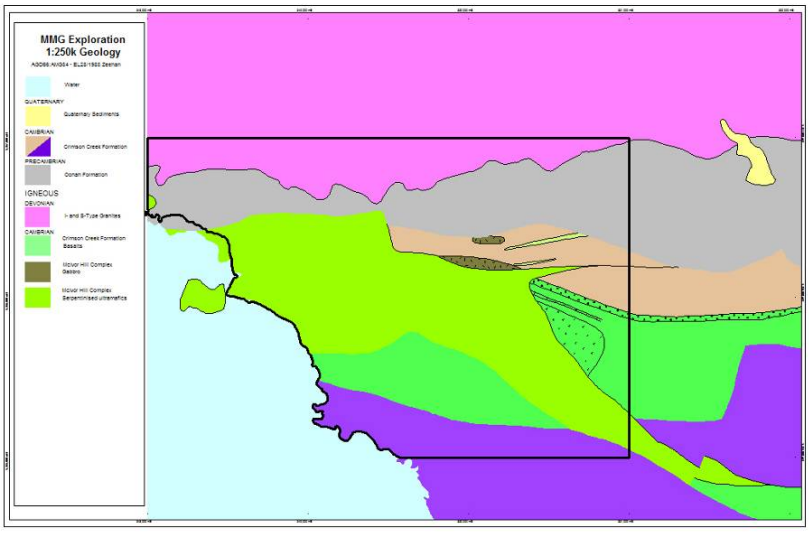


Figure 2: 1:250,000 Geology Map of EL28/1988 Zeehan

5. CURRENT EXPLORATION

Work Completed in the 2011-2012 Period

A single diamond drill hole TRL001 was completed for 205 metres late in the last period. The hole was targeted to test magnetic anomaly 2 (Figures 3 and 4). The hole intersected a series of pyrite rich ultramafics, only very low nickel assays were returned. The drill log and assays are appended.

Figure 3: Aeromagnetic image with targets superimposed, drill hole TRL001 was targeted at Anomaly 2.

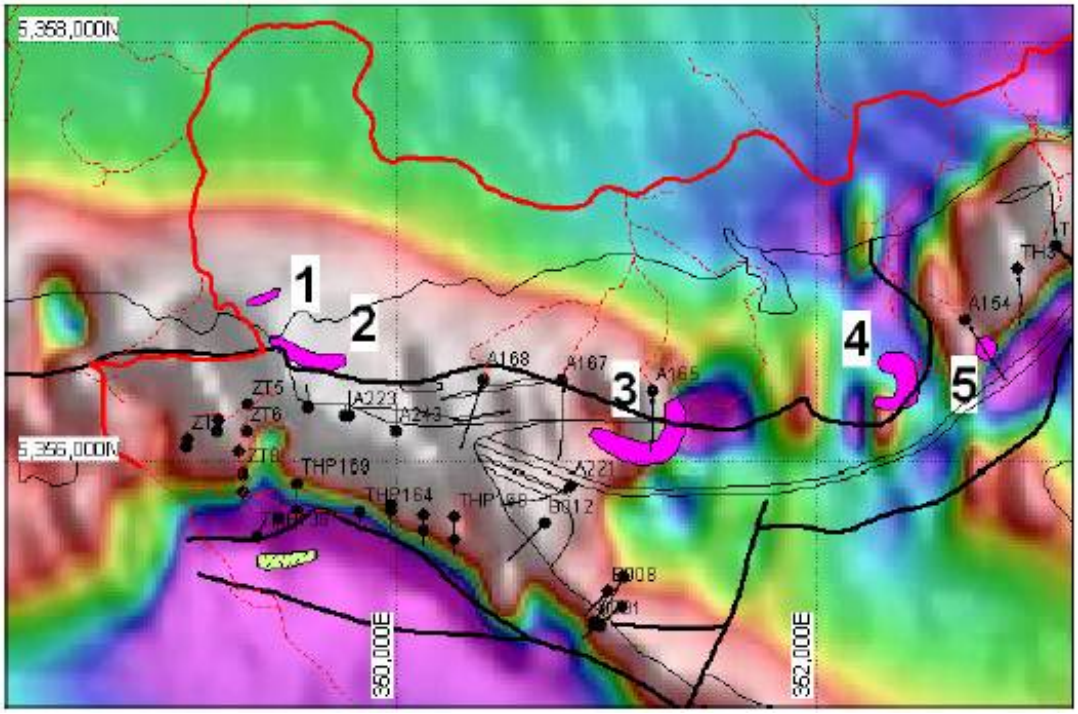
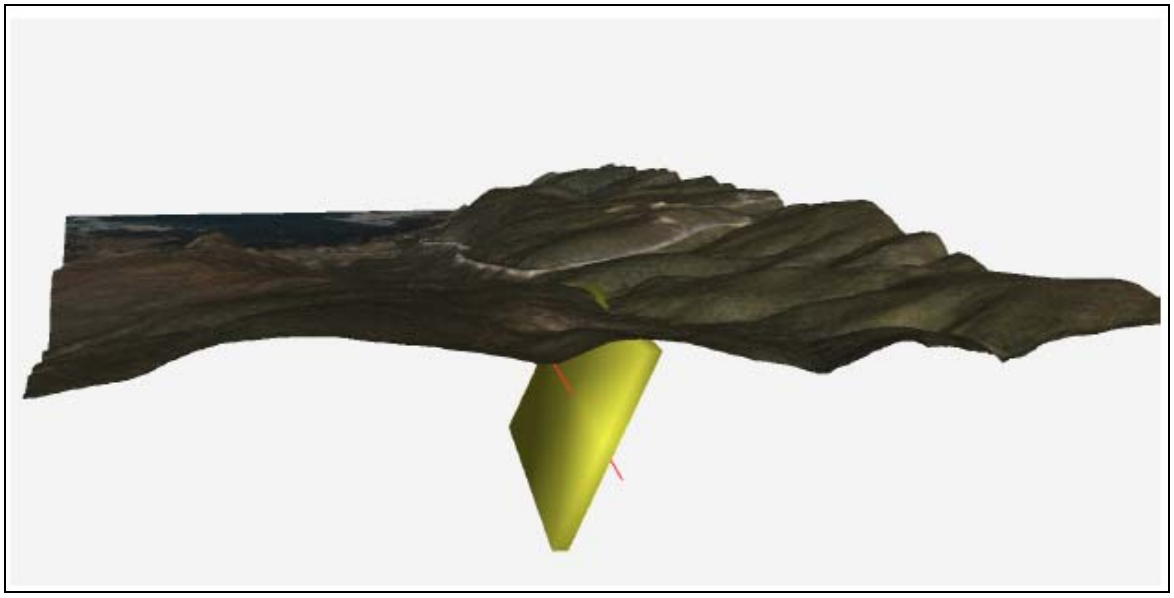


Figure 4: Drill hole TRL001 with modelled magnetic anomaly.



6. ENVIRONMENTAL

There were no surface disturbance or rehabilitation activities undertaken during the reporting period.

7. CONCLUSIONS AND RECOMMENDATIONS

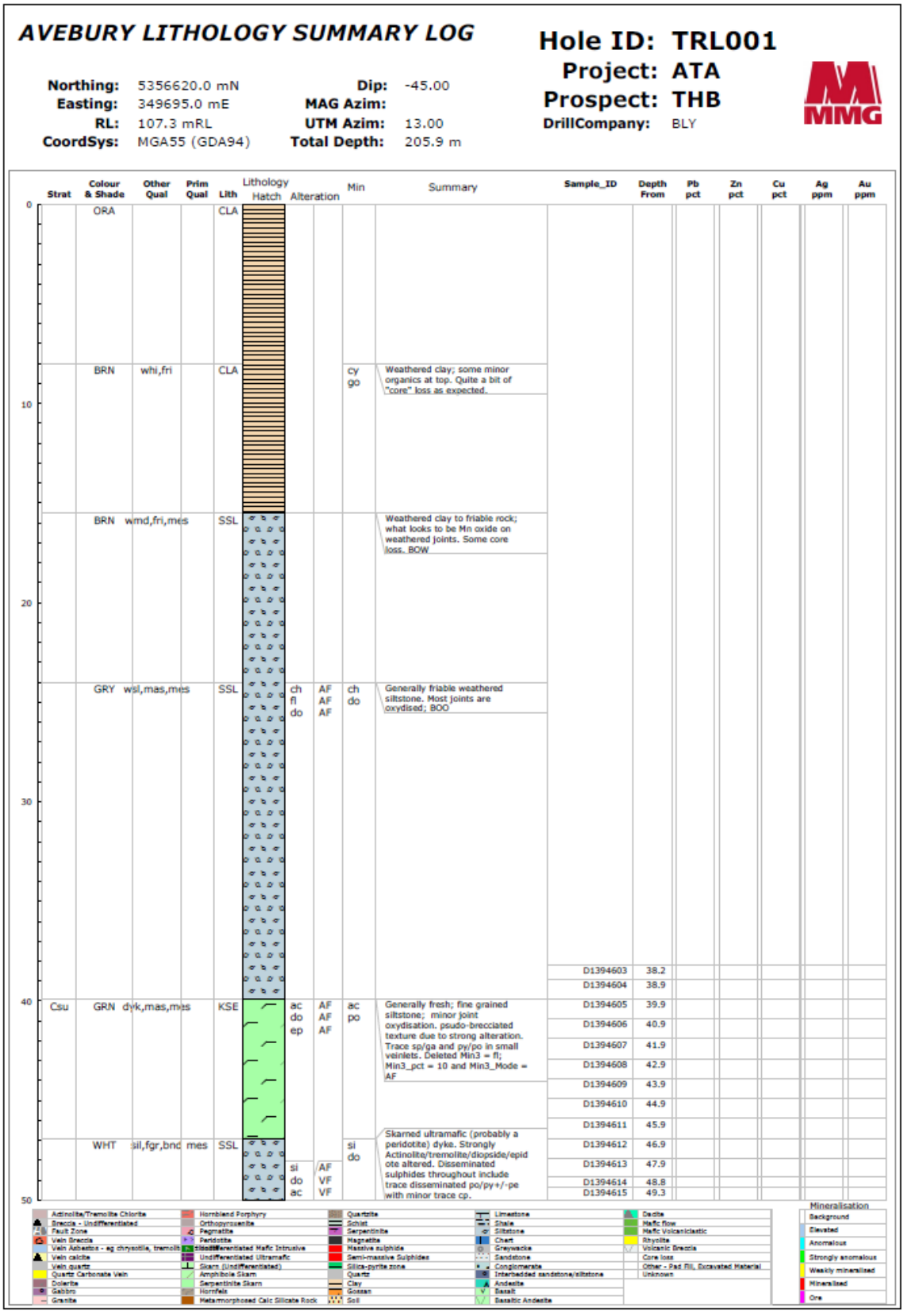
Additional magnetic anomalies remain to be tested, - further drilling is required.

8. EXPENDITURE

Costs incurred during the reporting period are primarily from assay results

	Project	Nickel Tasmania
	WBS Element	XP/00052/06
		Zeehan EL28/1988
TOTAL COSTS	AUD	**5,889.38**
PERSONNEL	AUD	1,560.23
CONTRACT FIELD SUPPORT		
GEOSCIENCE CONSULTANTS		
TRACK CUTTING & GRIDDING		
GEOCHEMICAL & ASSAYING	AUD	3,695.33
DRILLING		
GEOPHYSICS		
OTHER CONTRACTORS		
STORES & SUPPLIES		
VEHICLES, PLANT & MAINTENANCE		
LAND & ENVIRONMENT	AUD	633.82
EQUIPMENT HIRE		
DEPRECIATION, OFFICE & SUNDRY		

APPENDIX 1


AVEBURY LITHOLOGY SUMMARY LOG
Hole ID: TRL001
Project: ATA
Prospect: THB
DrillCompany: BLY
Northing: 5356620.0 mN
Easting: 349695.0 mE
RL: 107.3 mRL
CoordSys: MGA55 (GDA94)
Dip: -45.00
MAG Azim:
UTM Azim: 13.00
Total Depth: 205.9 m
MMG
Strat
Colour & Shade
Other Qual
Prim Qual
Lith
Lithology Hatch
Alteration
Min
Summary
Sample_ID
Depth From
Pb pct
Zn pct
Cu pct
Ag ppm
Au ppm
ORA
CLA
BRN whi,fri CLA cy go Weathered clay; some minor organics at top. Quite a bit of "core" loss as expected.
BRN wmd,fri,mes SSL Weathered clay to friable rock; what looks to be Mn oxide on weathered joints. Some core loss. BOW
GRY wsl,mas,mes SSL ch fl do AF AF AF ch do Generally friable weathered siltstone. Most joints are oxydised; BOO
Csu GRN dyk,mas,mes KSE ac do ep AF AF AF ac po Generally fresh; fine grained siltstone; minor joint oxydisation. psudo-brecciated texture due to strong alteration. Trace sp/ga and py/po in small veinlets. Deleted Min3 = fl; Min3_pct = 10 and Min3_Mode = AF
WHT sil,fgr,bnd mes SSL si do AF VF VF si do ac Skarned ultramafic (probably a peridotite) dyke. Strongly Actinolite/tremolite/diopside/epidote altered. Disseminated sulphides throughout include trace disseminated po/py+/-pe with minor trace cp.
D1394603 38.2
D1394604 38.9
D1394605 39.9
D1394606 40.9
D1394607 41.9
D1394608 42.9
D1394609 43.9
D1394610 44.9
D1394611 45.9
D1394612 46.9
D1394613 47.9
D1394614 48.8
D1394615 49.3
Actinolite/Tremolite Chlorite
Breccia - Undifferentiated
Fault Zone
Vein Breccia
Vein Asbestos - ag chrysotile, tremolite
Vein calcite
Vein quartz
Quartz Carbonate Vein
Dolerite
Gabbro
Granite
Hornblend Porphyry
Orthopyroxenite
Pegmatite
Peridotite
Undifferentiated Mafic Intrusive
Undifferentiated Ultramafic
Skarn (Undifferentiated)
Amphibole Skarn
Serpentinite Skarn
Hornfels
Metamorphosed Calc Silicate Rock
Quartzite
Schist
Serpentinite
Magnetite
Massive sulphide
Semi-massive Sulphides
Silica-pyrite zone
Quartz
Clay
Gossan
Soil
Limestone
Shale
Siltstone
Chert
Greywacke
Sandstone
Conglomerate
Interbedded sandstone/siltstone
Andesite
Basalt
Basaltic Andesite
Dacite
Mafic flow
Mafic Volcaniclastic
Rhyolite
Volcanic Breccia
Core loss
Other - Pad Fill, Excavated Material
Unknown
Mineralisation
Background
Elevated
Anomalous
Strongly anomalous
Weakly mineralised
Mineralised
Ore

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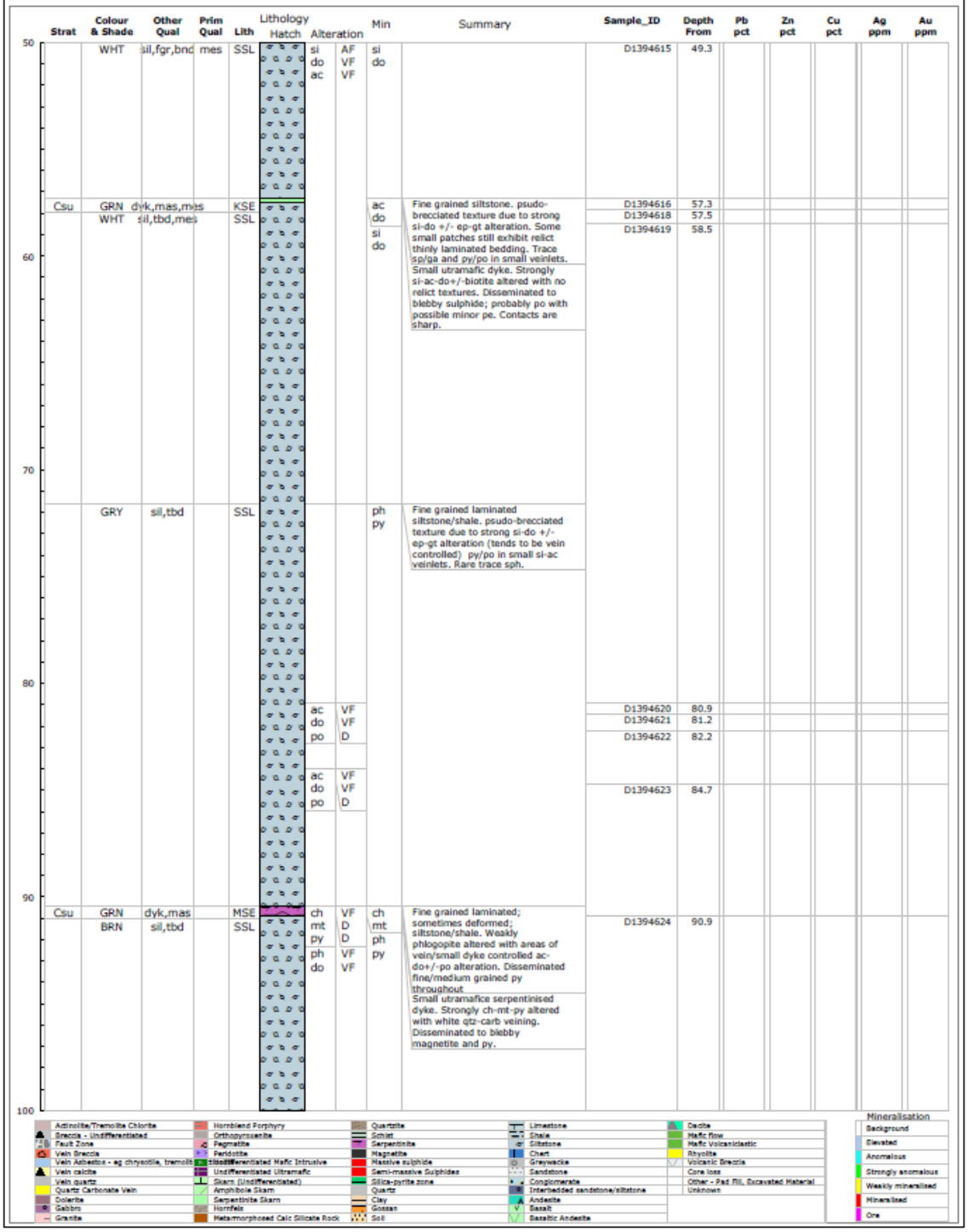
Dip: -45.00
MAG Azim:
UTM Azim: 13.00
Total Depth: 205.9 m



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RL:	107.3 mRL	**UTM Azim:**	13.00
CoordSys:	MGA55 (GDA94)	**Total Depth:**	205.9 m

Strat	Colour & Shade	Other Qual	Prim Qual	Lith	Hatch	Alteration		Min	Summary	Sample_ID	Depth From	Pb pct	Zn pct	Cu pct	Ag ppm	Au ppm
	BRN	sil,tbd		SSL		ph do	VF VF	ph py		D1394624	90.9					
						ph do	VF VF									
Csu	GRN	dyk,mas		MSE		mt po br	D D A	br po ph	Fine grained laminated siltstone/shale. Texture is thinly laminated to brecciated. Weakly phlogopite altered. Minor disseminated py throughout; po/py associated with veinlets. Rare trace sph in veinlets. Small fault at 103.9m	D1394625	107.6					
	BRN	sil	tbd	SSL				po		D1394627	108.4					
						ph do	M AF VF	ph po		D1394628	109.6					
						do si	VF AF		Ultramafic serpentinised dyke; ch-brucite-mt altered with disseminated haematite near the contacts. Disseminated blebs of po throughout with minor euhedral py.							
						mt po	VF D									
						si ph do	AF AF VF									
									Fine grained interbedded/laminated siltstone/shale; Weak to moderate phlogopite alteration mainly concentrated at unit contacts. Minor vein controlled si-do altered areas. Whispy Mt altered zone at 121.7-122.7m (core was dropped in run; some re-drill). Frequents small vuggy faults become more frequent with contact with shear zone. Trace disseminated and vein hosted po and py.	D1394629	138.3					
									Shear Zone; consists of brecciated and faulted siltstones.							
	GRN	shr,fau,bxd	gou	SSL				ph ac	Numerous faults with gouge. Variably phlogopite altered with actinolite around the fault zones. Bigge4st fault at 149.1m with 50mm thick greasy gouge. Joints and faults may or may not have associated py growth.	D1394630	147.3					
										D1394631	148.3					
										D1394632	148.9					
								mt po		D1394633	149.5					
Csu	BLK	dyk,mas		MSE						D1394634	149.7					

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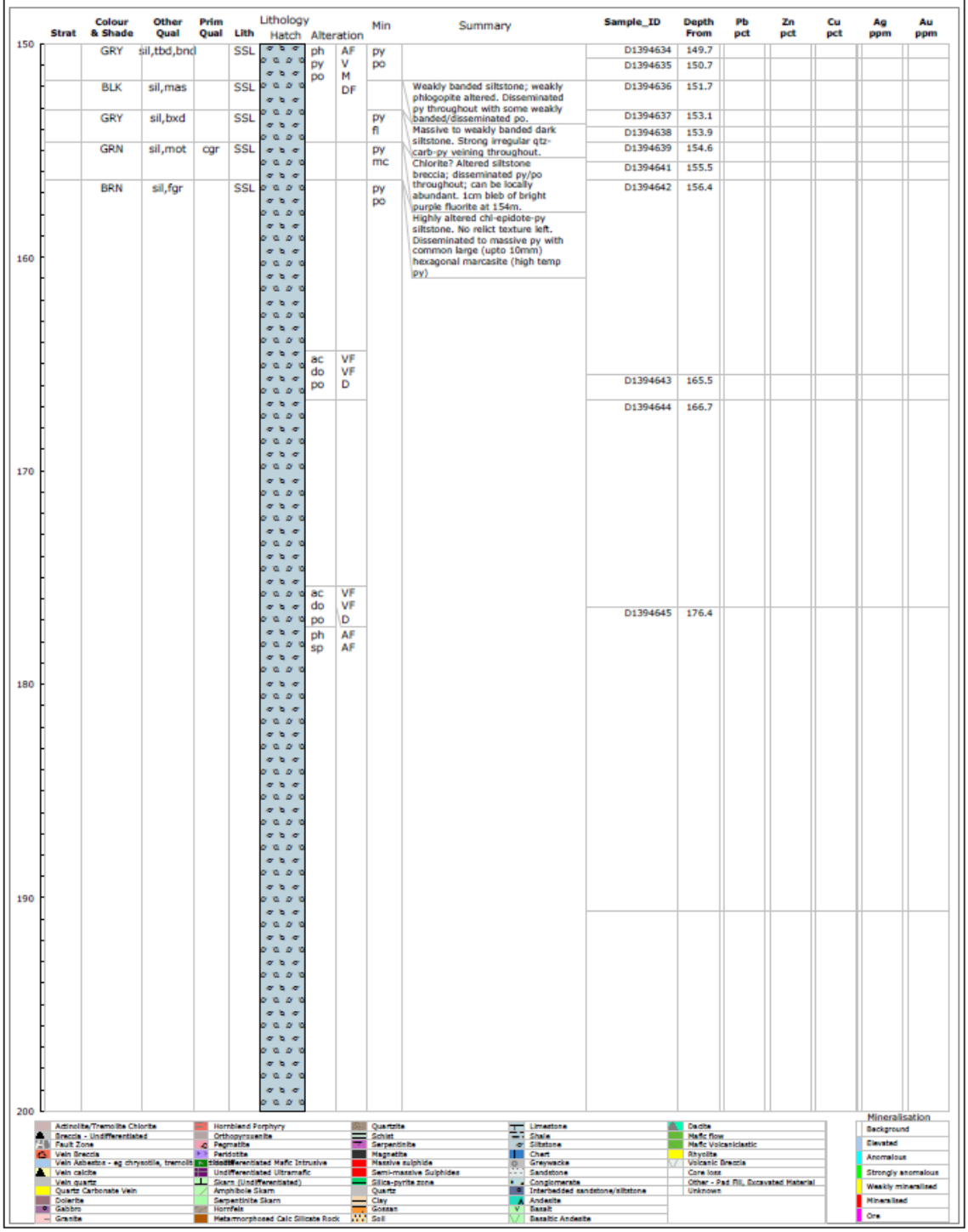
Easting:	349695.0 mE	**MAG Azim:**	
RL:	107.3 mRL	**UTM Azim:**	13.00
CoordSys:	MGA55 (GDA94)	**Total Depth:**	205.9 m



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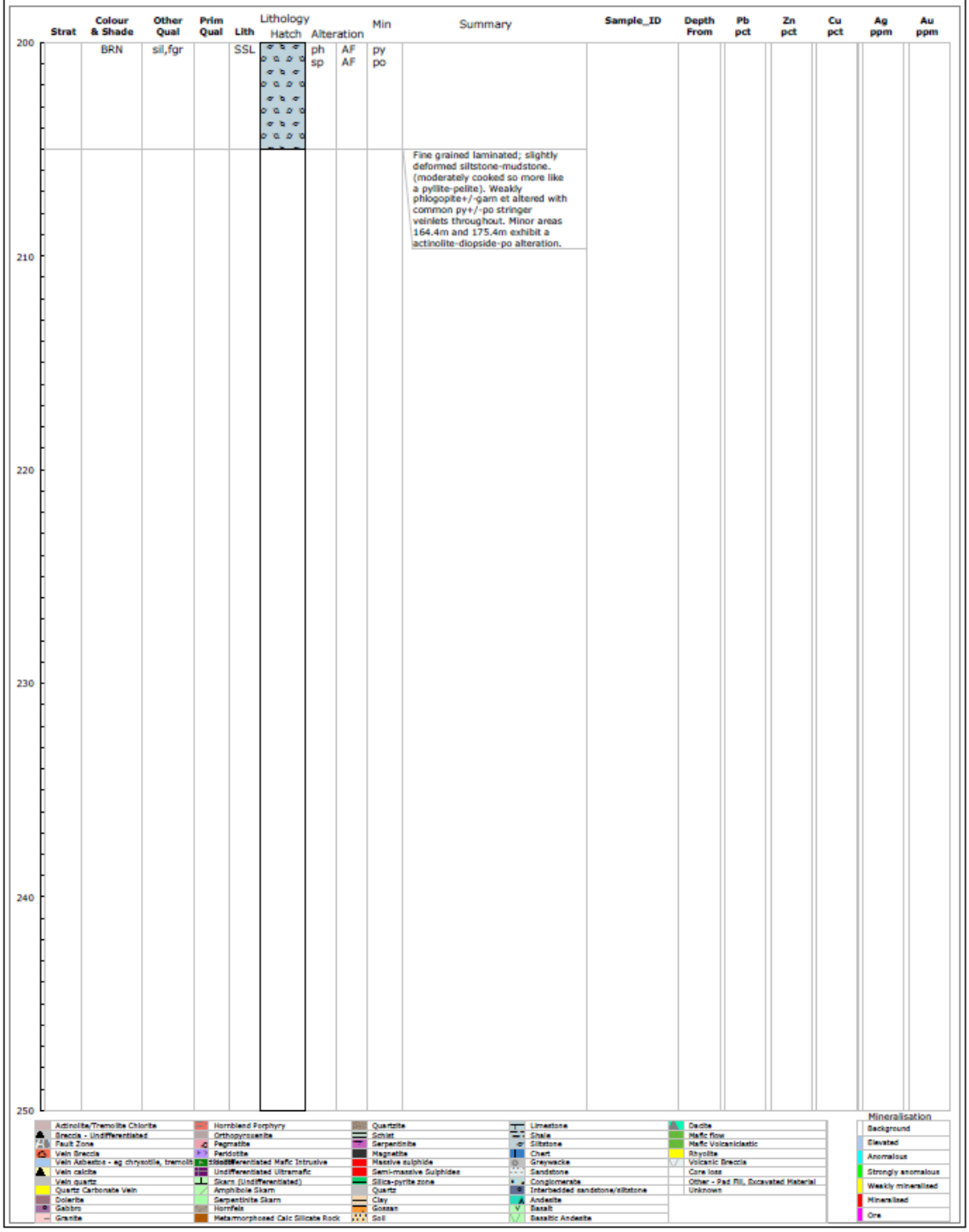

Appendix 2: TRL001 Asays results:

Hole_ID	FROM	TO	Sample_ID	Pb %	Zn %	Cu %	Ag_ppm	Au_ppm	As_ppm	Ba_ppm	Bi_ppm	Ca_%	Cd_ppm
TRL001	38.2	38.9	D1394603	0.027	0.241	0.001	-0.5	-0.001	-5	1090	-2	11.8	4.2
TRL001	38.9	39.9	D1394604	0.067	0.32	0.001	1.3	-0.001	5	80	2	13.5	5
TRL001	39.9	40.9	D1394605	0.071	0.32	0.009	0.7	-0.001	9	540	-2	12.1	5.1
TRL001	40.9	41.9	D1394606	0.015	0.347	0.022	0.5	1.025	11	320	-2	12.05	1.2
TRL001	41.9	42.9	D1394607	0.033	0.115	0	1.3	0.82	-5	790	3	10.8	-0.5
TRL001	42.9	43.9	D1394608	0.051	0.275	0.019	2.7	0.012	-5	480	7	11.65	3
TRL001	43.9	44.9	D1394609	0.002	0.381	0.012	1.4	0.004	11	270	-2	10.95	1
TRL001	44.9	45.9	D1394610	0.014	0.304	0.016	1.1	0.002	14	470	-2	10.1	1.3
TRL001	45.9	46.9	D1394611	0.15	0.406	0.003	1.3	-0.001	13	80	-2	14.05	10.3
TRL001	46.9	47.9	D1394612	0.006	0.159	0	0.8	-0.001	-5	160	-2	11.7	2.8
TRL001	47.9	48.8	D1394613	0.005	0.09	0	-0.5	0.002	5	280	-2	7.72	1.5
TRL001	48.8	49.3	D1394614	0.004	0.03	0	-0.5	-0.001	-5	80	-2	3.73	-0.5
TRL001	49.3	57.3	D1394615	0.041	0.134	0.005	0.8	-0.001	7	140	-2	5.42	5
TRL001	57.3	57.5	D1394616	0.017	0.038	0.021	3.2	-0.001	20	1210	-2	10.05	1.4
TRL001	57.5	58.5	D1394618	0.015	0.03	0.004	0.7	0.005	13	330	-2	3.56	1.2
TRL001	58.5	80.9	D1394619	0.003	0.004	0.009	0.6	0.001	14	580	-2	1.5	-0.5
TRL001	80.9	81.2	D1394620	0.003	0.013	0.005	-0.5	-0.001	7	90	-2	10.9	-0.5
TRL001	81.2	82.2	D1394621	0.002	0.003	0.007	-0.5	0.002	12	830	-2	0.41	-0.5
TRL001	82.2	84.7	D1394622	0.004	0.011	0.036	-0.5	-0.001	-5	180	-2	7	-0.5
TRL001	84.7	90.9	D1394623	0.005	0.235	0.001	1.7	0.001	-5	110	3	4.88	4.4
TRL001	90.9	107.6	D1394624	0.003	0.007	0.004	-0.5	-0.001	-5	520	2	6.4	-0.5
TRL001	107.6	108.4	D1394625	0.001	0.021	0.028	-0.5	0.009	6	350	-2	2.3	-0.5
TRL001	108.4	109.6	D1394627	0.022	0.038	0.004	1	0.004	-5	440	-2	7.51	0.7
TRL001	109.6	138.3	D1394628	0.001	0.005	0.001	-0.5	-0.001	-5	1230	-2	8.33	-0.5
TRL001	138.3	147.3	D1394629	0.005	0.033	0.005	-0.5	-0.001	12	100	2	7.1	0.7
TRL001	147.3	148.3	D1394630	0.001	0.01	0.004	0.5	0.003	7	170	-2	6.56	-0.5
TRL001	148.3	148.9	D1394631	0.001	0.012	0.005	0.8	0.002	27	100	-2	6.18	-0.5
TRL001	148.9	149.5	D1394632	0.001	0.011	0.003	0.5	0.009	37	40	-2	6.58	-0.5
TRL001	149.5	149.7	D1394633	0.001	0.015	0.005	0.7	0.008	110	40	-2	1.13	-0.5
TRL001	149.7	150.7	D1394634	0.002	0.017	0.009	1.4	0.002	397	170	3	0.99	-0.5
TRL001	150.7	151.7	D1394635	0.002	0.009	0.009	0.7	0.002	36	220	7	4.5	-0.5
TRL001	151.7	153.1	D1394636	0.009	0.009	0.007	1	0.002	69	150	7	1.93	-0.5
TRL001	153.1	153.9	D1394637	0.044	0.21	0.002	2.2	0.002	38	150	7	1.66	5
TRL001	153.9	154.6	D1394638	0.001	0.013	0.001	0.5	0.001	7	130	-2	3.89	-0.5
TRL001	154.6	155.5	D1394639	0.001	0.029	0	1.3	0.001	-5	20	2	4.88	-0.5
TRL001	155.5	156.4	D1394641	0	0.013	0	0.8	0.002	-5	60	2	6.31	-0.5
TRL001	156.4	165.5	D1394642	0.003	0.011	0.001	0.6	0.001	-5	170	-2	8.76	-0.5
TRL001	165.5	166.7	D1394643	0.002	0.014	0.001	0.6	0.001	-5	100	-2	10.2	-0.5
TRL001	166.7	176.4	D1394644	0.018	0.027	0.006	1.8	0.001	-5	30	-2	14.5	-0.5
TRL001	176.4	190.6	D1394645	0.001	0.002	0.002	-0.5	0.001	-5	120	-2	0.34	-0.5

Sample_ID	Co_ppm	Cr_ppm	Fe_%	K_%	Mg_%	Mn_%	Na_ppm	Ni_ppm	P_ppm	S_pctpref	Sb_ppm	W_ppm	Mo_ppm
D1394603	36	61	4.78	2.43	6.7	0.33	1100	151	1200	0.15	27	-10	-1
D1394604	37	64	5.48	0.69	4.04	1.495	400	101	890	0.28	20	-10	-1
D1394605	62	48	6.43	1.71	6.22	0.629	1000	241	500	0.28	26	-10	-1
D1394606	135	47	7.7	1.01	7.9	0.262	1000	709	1420	1.42	6	-10	-1
D1394607	32	74	5.03	3.32	4.62	0.396	1500	296	990	0.08	18	-10	-1
D1394608	129	57	6.91	1.61	6.76	0.384	700	2350	2470	0.59	21	-10	-1
D1394609	115	49	7.98	0.85	8.38	0.457	1000	978	2680	1.13	-5	-10	-1
D1394610	129	57	7.34	1.15	7.66	0.407	2000	1750	3310	0.93	5	-10	-1
D1394611	84	43	6	0.27	7.25	0.974	1100	1335	5980	0.44	18	-10	-1
D1394612	18	49	3.07	2.15	1.09	2.07	600	93	410	0.16	-5	-10	4
D1394613	11	52	3.67	2.42	1.8	1.05	11600	31	320	0.06	10	-10	10
D1394614	5	162	1.01	0.48	0.85	0.12	36100	19	410	0.02	-5	-10	5
D1394615	20	111	2.1	0.54	1.41	0.148	42400	22	640	0.24	5	-10	10
D1394616	81	96	5.74	0.54	2.92	0.214	23000	60	430	1.4	7	-10	-1
D1394618	15	131	1.52	1.14	0.98	0.08	37600	34	540	0.3	-5	-10	2
D1394619	24	156	3.49	3.05	0.91	0.121	11700	30	560	1.42	-5	-10	1
D1394620	29	82	6.01	0.48	3.1	0.237	20500	18	400	0.7	-5	-10	1
D1394621	15	123	3.24	3.81	0.99	0.053	5700	25	330	1.32	-5	-10	-1
D1394622	142	95	8.31	0.87	2.53	0.153	19200	146	410	3.98	-5	-10	11
D1394623	25	65	21	2.01	1.49	1.015	700	51	460	5.27	10	10	-1
D1394624	8	143	2.89	0.93	2.18	0.106	8600	30	430	0.95	-5	-10	-1
D1394625	55	46	12.45	1.72	17.25	0.199	900	182	420	6.56	9	-10	4
D1394627	15	156	3.64	1.44	4.06	0.474	11800	112	1440	0.58	10	-10	-1
D1394628	3	68	1.83	1.72	5.15	0.121	4700	8	250	0.5	7	-10	-1
D1394629	14	53	3.71	1.54	13.8	0.248	2600	28	360	1.83	5	-10	1
D1394630	24	62	4.31	1.33	11.85	0.3	4800	27	380	1.63	5	-10	-1
D1394631	56	52	5.83	1.43	12.85	0.34	3400	30	380	3.48	10	-10	-1
D1394632	46	59	5.56	0.44	12.6	0.636	5300	24	400	2.13	6	-10	1
D1394633	52	15	47.9	0.1	8.1	1.27	200	15	1110	3.57	37	-10	-1
D1394634	157	79	19.65	1.57	6.11	3.16	700	59	1480	5.13	27	-10	-1
D1394635	63	95	8.91	2.43	4.97	0.692	1200	60	760	4.91	24	-10	2
D1394636	47	109	6.12	2.83	1.24	0.309	800	58	500	3.85	13	-10	6

D1394637	35	95	6.03	2.11	0.82	0.241	600	43	740	4.09	7	-10	-1
D1394638	10	92	5.62	2.29	0.88	0.579	600	17	240	0.66	7	30	-1

Sample_ID	Co_ppm	Cr_ppm	Fe_%	K_%	Mg_%	Mn_%	Na_ppm	Ni_ppm	P_ppm	S_pctpref	Sb_ppm	W_ppm	Mo_ppm
D1394641	23	36	17.75	1.52	1.26	2.2	400	22	170	9.15	5	40	-1
D1394642	26	125	6.19	0.7	1.82	0.336	14800	32	410	0.19	-5	-10	333
D1394643	35	78	7.73	0.63	1.38	0.453	10800	115	310	0.23	-5	-10	121
D1394644	50	96	10.6	0.11	1.06	0.68	2300	41	300	0.73	11	10	103
D1394645	6	142	1.76	0.98	0.45	0.032	4700	10	150	0.66	-5	-10	1

Sample_ID	Ti_ppm	Tl_ppm	U_ppm
D1394603	5100	-10	-10
D1394604	5000	-10	-10
D1394605	3900	-10	-10
D1394606	4000	-10	-10
D1394607	4300	-10	-10
D1394608	4500	-10	-10
D1394609	3900	-10	-10
D1394610	4800	-10	-10
D1394611	4900	-10	-10
D1394612	3400	-10	-10
D1394613	4400	-10	-10
D1394614	3900	-10	-10
D1394615	4200	-10	-10
D1394616	3600	-10	-10
D1394618	4400	-10	-10
D1394619	3000	-10	-10
D1394620	3800	-10	-10
D1394621	2200	-10	10
D1394622	3100	-10	-10
D1394623	3600	-10	-10
D1394624	3800	-10	-10
D1394625	3200	-10	-10
D1394627	7300	-10	-10
D1394628	2000	-10	-10
D1394629	3300	-10	-10
D1394630	3300	-10	-10
D1394631	3100	-10	-10
D1394632	3200	-10	-10
D1394633	300	-10	-10
D1394634	2000	-10	-10
D1394635	4900	-10	-10
D1394636	3400	-10	-10
D1394637	1600	-10	-10
D1394638	2400	-10	-10
D1394639	3100	-10	-10
D1394641	2900	-10	-10
D1394642	3400	-10	20
D1394643	3300	-10	30
D1394644	3000	-10	10
D1394645	1500	-10	-10